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Publications and Presentations

A. Articles (corresponding author*)

126. L. Ruppenthal, Z. L. Ruan, J. Schramm, P. C. Liu, F. Münster, T. Naumann, L. Neuhaus, J. Herritsch, X.-Y. Chen, X.-Y. Wang, B. Meyer, R. Tonner-Zech, **J. M. Gottfried***,
The Surface Chemical Bond of a Nonbenzenoid Aromatic Hydrocarbon: Acepleiadylene versus Pyrene,
Surf. Sci. 753 (2025) 122625
https://doi.org/10.1016/j.susc.2024.122625

125. L. J. Heuplick, Q. T. Fan, D. A. Astvatsaturov, T. V. Dubinina, **J. M. Gottfried***,
On-surface synthesis of phthalocyanines with extended π-electron systems,
Comm. Chem. 7 (2024) 292.
https://doi.org/10.1038/s42004-024-01351-8

124. Q. T. Fan, Z. L. Ruan, S. Werner, T. Naumann, R. Bolat, J. Martinez-Castro, T. Koehler, T. Vollgraff, W. Hieringer, R. Mandalia, C. Neiß, A. Görling, F. S. Tautz, J. Sundermeyer*, **J. M. Gottfried***
Bottom-up Synthesis and Characterization of Porous 12-Atom-Wide Armchair Graphene Nanoribbons
Nano Lett. 24 (2024), 10718-10723

123. O. Maßmeyer, R. Günkel, J. Glowatzki, P. Klement, B. Ojaghi Dogahe, S.R. Kachel, F. Gruber, M. Müller, M. Fey, J. Schörmann, J. Belz, A. Beyer, **J.M. Gottfried**, S. Chatterjee, K. Volz*
Synthesis of 2D Gallium Sulfide with Ultraviolet Emission by MOCVD
Small (2024) 2402155 DOI:10.1002/smll.202402155

122. Z. Ruan, **J.M. Gottfried***
Single-molecule chemistry with a smart robot.
Nature Synth. 3 (2024) 424–425.

121. Z. Ruan, J. Schramm, J. B. Bauer, T. Naumann, H. F. Bettinger*, R. Tonner-Zech*, **J. M. Gottfried***
Synthesis of Tridecacene by Multistep Single-Molecule Manipulation
J. Am. Chem. Soc. 146 (2024) 3700-3709.

120. K. Niu, Q. Fan, L. Chi, J. Rosen, **J. M. Gottfried***, J. Björk*
Unveiling the Formation Mechanism of the Biphenylene Network
Nanoscale Horizons 8 (2023) 368-376.

119. Z. Wu, F. Weigend, D. Fenkse, T. Naumann, **J. M. Gottfried**, S. Dehnen*
Ion-Selective Assembly of Supertetrahedral Selenido Germanate Clusters for Alkali Metal Ion Capture and Separation
J. Am. Chem. Soc. 145 (2023) 3802-3811.

118. J. Herritsch, M. Zugermeier, M. Schmid, M. Chen, J.-N. Luy, P. Schweyen, M. Bröring, R. Tonner-Zech, **J. M. Gottfried***
Why can cobalt(III) corrole form more stable metal/organic interfaces than cobalt(II) porphyrin?
J. Porphyrins Phthalocyanines 27 (2023) 670-681.

117. **J.M. Gottfried***
Synthesizing a nanographyne
Chem 8 (2022) 2581-2583

116. **J.M. Gottfried***
Molecular soccer balls connected to make a 2D material
Nature 606 (2022) 470-471

115. J. Martinez-Castro*, R. Bolat, Q. Fan, S. Werner, H. Arefi, T. Esat, J. Sundermeyer, C. Wagner, **J. M. Gottfried**, R. Temirov, M. Ternes*, F. S. Tautz
Disentangling the Complex Electronic Structure of an Adsorbed Nanographene: Cycloarene C108
Commun. Mater. 3 (2022) 57.

114. B.P. Klein, A. Ihle, S.R. Kachel, L. Ruppenthal, S.J. Hall, L. Sattler, S.M. Weber, J. Herritsch, A. Jaegermann, D. Ebeling, R.J. Maurer, G. Hilt, R. Tonner-Zech, A. Schirmeisen*, **J.M. Gottfried***
Topological Stones-Wales Defects Enhance Bonding and Electronic Coupling at the Graphene/Metal Interface
ACS Nano 16 (2022) 11979–11987.

113. A. Haags, X. S. Yang, L. Egger, D. Brandstetter, H. Kirschner, F. C. Bocquet, G. Koller, A. Gottwald, M. Richter, **J. M. Gottfried**, M. G. Ramsey, P. Puschnig*, S. Soubatch*, F.S. Tautz
Momentum-space imaging of σ-orbitals for chemical analysis
Science Advances 8 (2022) eabn0819.

112. P.-M. Dombrowski, S.R. Kachel, L. Neuhaus, **J.M. Gottfried**, G. Witte*
Temperature-Programmed Desorption of Large Molecules: Influence of Thin Film Structure and Origin of Intermolecular Repulsion
Nanoscale 13 (2021) 13816-13826.

111. S. Werner, T. Vollgraff, Q. Fan, K. Bania, **J.M. Gottfried,** J. Sundermeyer*
Reductive O-Triflylation of Naphthalene Diimide: Access to Alkyne- and Amine-functionalized 2,7-Diazapyrenes
Org. Chem. Front. 8 (2021) 5013-5023.

110. P.C. Liu, X.Y. Chen, J.W. Cao, L. Ruppenthal, **J. M. Gottfried**, K. Müllen, X.Y. Wang*
Revisiting Acepleiadylene: Two-Step Synthesis and π-Extension toward Nonbenzenoid Nanographene
J. Am. Chem. Soc. 143 (2021) 5314-5318.

109. B.P. Klein, L. Ruppenthal, S.J. Hall, L.E. Sattler, S.M. Weber, J. Herritsch, A. Jaegermann, R.J. Maurer, G. Hilt*, **J.M. Gottfried***
Topology Effects in Molecular Organic Electronic Materials: Pyrene and Azupyrene
ChemPhysChem 22 (2021) 1065-1073.

108. J. Herritsch, S. R. Kachel, Q.T. Fan, M. Hutter, L. Heuplick, F. Münster, **J.M. Gottfried***
On-Surface Porphyrin Transmetalation by Pb/Cu Redox Exchange
Nanoscale 13 (2021) 13241-13248.

107. Q.T. Fan, L.H. Yan, M.W. Tripp, O. Krejči, S. Dimosthenous, S.R. Kachel, M.Y. Chen, A.S. Foster, U. Koert, P. Liljeroth*, **J.M. Gottfried***
Biphenylene Network: A Nonbenzenoid Carbon Allotrope
Science 372 (2021) 852-856.

106. S.R. Kachel, P.-M. Dombrowski, T. Breuer, **J.M. Gottfried**, G. Witte
Engineering of TMDC-OSC Hybrid Interfaces: The Thermodynamics of Unitary and Mixed Acene Monolayers on MoS_2
Chem. Sci. 12 (2021) 2575-2585.

105. E. Geringer, M. Gerhard, C.K. Krug, **J.M. Gottfried**, S. Dehnen*
Pyrene-Terminated Tin Sulfide Clusters: Optical Properties and Interaction with Metal Surfaces
Chem. Eur. J. 27 (2021) 2734-2741.

104. A. Haags, A. Reichmann, Q.T. Fan, L. Egger, H. Kirschner, T. Naumann, S. Werner, J. Sundermeyer, L. Eschmann, F.C. Bocquet, G. Koller, A. Gottwald, M. Richter, M.G. Ramsey, M. Rohlfing, P. Puschnig, **J.M. Gottfried***, S. Soubatch*, F.S. Tautz*
Kekulene: On-Surface Synthesis, Orbital Structure, and Aromatic Stabilization
ACS Nano 14 (2020) 15766-15775

103. J. Herritsch, J.-N. Luy, S. Rohlf, M. Gruber, B. P. Klein, M. Kalläne, P. Schweyen, M. Bröring, K. Rossnagel, R. Tonner, **J. M. Gottfried***
Influence of Ring Contraction on the Electronic Structure of Nickel Tetrapyrrole Complexes: Corrole versus Porphyrin
ECS J. Solid State Sci. Technol. 9 (2020) 061005.

102. C.K. Krug, M. Zugermeier, J. Kuttner, M. Schmid, G. Hilt*, **J.M. Gottfried***
Polymorphism at the Metal/Organic Interface: Hybrid Phase with Alternating Coplanar and Vertical Adsorption Geometry
J. Phys. Chem. C 124 (2020) 15928-15934.

101. M. Zugermeier, J. Herritsch, J.-N. Luy, M. Chen, B. P. Klein, F. Niefind, P. Schweyen, M. Bröring, M. Schmid, R. Tonner*, **J. M. Gottfried***
On-Surface Formation of a Transient Corrole Radical and Aromaticity-Driven Interfacial Electron Transfer
J. Phys. Chem. C 124 (2020) 13825-13836.

100. Q.T. Fan, D. Martin-Jimnez, S. Werner, D. Ebeling*, T. Koehler, T. Vollgraff, J. Sundermeyer*, W. Hieringer, A. Schirmeisen, **J.M. Gottfried***
On-Surface Synthesis and Characterization of a Cycloarene: C108 Graphene Ring
J. Am. Chem. Soc.142 (2020) 894-899.

99. S.R. Kachel, B.P. Klein, J.M. Morbec, M. Schöniger, M. Hutter, M. Schmid, P. Kratzer, B. Meyer, R. Tonner, **J.M. Gottfried***
Chemisorption and Physisorption at the Metal/Organic Interface: Bond Energies of Naphthalene and Azulene on Coinage Metal Surfaces
J. Phys. Chem. C 124 (2020) 8257-8268.

98. C.K. Krug, D. Nieckarz, Q.T. Fan, P. Szabelski, **J.M. Gottfried***
The Macrocycle Versus Chain Competition in On-Surface Polymerization: Insights from Reactions of 1,3-Dibromoazulene on Cu(111)
Chem. Eur. J. 26 (2020) 7647-7656. (Editor's choice, Hot Paper)

97. D. Han, Q.T. Fan, J.Y. Dai, T.Wang, J.M. Huang, Q. Xu, H.H. Ding, J. Hu, L. Feng, W.Z. Zhang, Z.W. Zeng, **J.M. Gottfried**, J.F. Zhu*

On-Surface Synthesis of Armchair-Edged Graphene Nanoribbons with Zigzag Topology
J. Phys. Chem. C 124 (2020) 5248-5256

96. B.P. Klein, S.E. Harman, L. Ruppenthal, G.M. Ruehl, S. Hall, S.J. Carey, J. Herritsch, M. Schmid, R.J. Maurer, R. Tonner, C.T. Campbell, **J.M. Gottfried***
Enhanced Bonding of Pentagon–Heptagon Defects in Graphene to Metal Surfaces: Insights from the Adsorption of Azulene and Naphthalene to Pt(111)
Chem. Mater. 32 (2020) 1041-1053.

95. S. Behjati, S. Sheibani*, J. Herritsch, **J.M. Gottfried**
Photodegradation of dyes in batch and continuous reactors by Cu2O-CuO nano-photocatalyst on Cu foils prepared by chemical-thermal oxidation
Mater. Res. Bull. 130 (2020) 110920.

94. A. Kudielka*, M. Schmid, B.P. Klein, C. Pietzonka, **J.M. Gottfried**, B. Harbrecht
Nanocrystalline Cobalt Hydroxide Oxide: Synthesis and Characterization with SQUID, XPS and NEXAFS
J. Alloys Compd. 824 (2020) 153925.

93. B.P. Klein, J.M. Morbec, M. Franke, K.K. Greulich, M. Sachs, S. Parhizkar, F.C: Bocquet, M. Schmid, S.J. Hall, R.J. Maurer, B. Meyer, R. Tonner, C. Kumpf, P. Kratzer, **J.M. Gottfried***
Molecule-Metal Bond of Alternant versus Nonalternant Aromatic Systems on Coinage Metal Surfaces: Naphthalene versus Azulene on Ag(111) and Cu(111)
J. Phys. Chem. C 123 (2019) 29219-29230.

92. Q.T. Fan, D. Martin-Jimenez, D. Ebeling*, C.K. Krug, L. Brechmann, C. Kohlmeyer, G. Hilt*, W. Hieringer*, A. Schirmeisen, **J.M. Gottfried***
Nanoribbons with Non-Alternant Topology from Fusion of Polyazulene: Carbon Allotropes Beyond Graphene
J. Am. Chem. Soc. 141 (2019) 17713-17720.
Highlighted in Nature*: Elusive cousins of graphene are captured in a golden ribbon,*
Nature 575 (2019) doi: 10.1038/d41586-019-03260-6

91. M. Schöniger, S.R. Kachel, J. Herritsch, P. Schröder, M. Hutter, **J.M. Gottfried***
Direct Synthesis of Dilithium Tetraphenylporphyrin: Facile Reaction of a Free-Base Porphyrin with Vapor-Deposited Lithium
Chem. Commun. 55 (2019) 13665-13668.

90. Q.T. Fan, J.-N. Luy, M. Liebold, K. Greulich, M. Zugermeier, J. Sundermeyer, R. Tonner, **J.M. Gottfried***
Template-Controlled On-Surface Synthesis of a Lanthanide Supernaphthalocyanine and its Open-Chain Polycyanine Counterpart
Nature Comm. 10 (2019) 5049.
Related article on Nature POrtfolio Chemistry Community:
https://go.nature.com/2NOPbzR

89. H.L. Deubner, M. Sachs, J. Bandemehr, S. Ivlev, A. Karttunen, S.R. Kachel, B.P. Klein, L. Ruppenthal, M. Schöniger, C.K. Krug, J. Herritsch, **J.M. Gottfried**, J.N.M. Aman, J. Schmedt auf der Günne, F. Kraus*
Binary lead fluoride Pb_3F_8
Chem. Eur. J. 25 (2019) 15656-15661.

88. **J.M. Gottfried***, U. Höfer
Preface: Fresh perspectives on internal interfaces
J. Phys. Condens. Matter 31 (2019) 500301.

87. Q.T. Fan, **J.M. Gottfried***
Topology-Selective Ullmann Coupling on Metal Surfaces by Precursor Design and Adsorbate-Substrate Interaction: Towards the Control of Polymer vs. Macrocycle Formation
ChemPhysChem 20 (2019) 2311-2316.

86. M. Schmid*, S.R. Kachel, B.P. Klein, N. Bock, P. Müller, R. Riedel, N. Hampp, **J.M. Gottfried**
Reactive Metal-Organic Interfaces Studied with HAXPES: Controlled Formation of Metalloporphyrin Interphase Layers During Metal Vapor Deposition onto Porphyrin Films
J. Phys. Condens. Matter 31 (2019) 094002.

85. B.P. Klein, N. van der Heijden, S.R. Kachel, M. Franke, C.K. Krug, K.K. Greulich, L. Ruppenthal, P. Müller, P. Rosenow, S. Parhizkar, F.C. Bocquet, M. Schmid, W. Hieringer, R.J. Maurer, R. Tonner, C. Kumpf, I. Swart, **J.M. Gottfried***
Molecular Topology and the Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Systems as Functional Structural Elements
Phys. Rev. X 9 (2019) 011030.

84. I. Piquero-Zulaica*, A. Garcia-Lekue, L. Colazzo, C.K. Krug, M. Sabri, Z.M. Abd El-Fattah, **J.M. Gottfried**, D.G. de Oteyza, J.E. Ortega, J. Lobo-Checa*
Electronic structure tunability by periodic meta-ligand spacing in one-dimensional organic semiconductors
ACS Nano 12 (2018) 10537–10544.

83. M. Sachs*, K. Bohnen, M. Conrad, B.P. Klein, C.K. Krug, C. Pietzonka, M. Schmid, S. Zörb, **J.M. Gottfried**, B. Harbrecht
Forcing Substitution of Tantalum by Copper in 1T-TaS_2: Synthesis, Structure and Electronic Properties of 1T-$Cu_xTa_{1-x}S_2$
J. Phys. Condens. Matter 30 (2018) 385501.

82. C.K. Krug, Q.T. Fan, F. Fillsack, J. Glowatzki, N. Trebel, L.J. Heuplick, T. Koehler, **J.M. Gottfried***
Organometallic ring vs. chain formation beyond kinetic control: steering their equilibrium in two-dimensional confinement
Chem. Comm. 54 (2018) 9741-9744.

81. Q.T. Fan, S. Werner, J. Tschakert, D. Ebeling, A. Schirmeisen*, G. Hilt*, W. Hieringer*, **J.M. Gottfried***
Precise Mono-Selective Aromatic C-H Bond Activation by Chemisorption of Meta-Aryne on a Metal Surface
J. Am. Chem. Soc. 140 (2018) 7526–7532.

80. M. Schmid*, M. Zugermeier, J. Herritsch, B.P. Klein, C.K. Krug, L. Ruppenthal, P. Müller, M. Kothe, P. Schweyen, M. Bröring, **J.M. Gottfried**
On-Surface Synthesis and Characterization of an Iron Corrole
J. Phys. Chem. C 122 (2018) 10392–10399.

79. Q.T. Fan, L. Liu, J. Dai, T. Wang, H. Ju, J. Zhao*, J. Kuttner, G. Hilt, **J. M. Gottfried***, J.F. Zhu*
Surface Adatom Mediated Structural Transformation in Bromoarene Monolayers:

Precursor Phases in Surface Ullmann Reaction
ACS Nano 12 (2018) 2267-2274.

78. M. Zugermeier, M. Gruber, M. Schmid, B. Klein, L. Ruppenthal, P. Müller, R. Einholz, W. Hieringer, R. Berndt, H. F. Bettinger, **J. M. Gottfried***
On-Surface Synthesis of Heptacene and its Interaction with a Metal Surface
Nanoscale 9 (2017) 12461-12469.

77. Q.T. Fan, T. Wang, J. Dai, J. Kuttner, G. Hilt, **J. M. Gottfried***, J. F. Zhu*
On-Surface Pseudo-High Dilution Synthesis of Macrocycles: Principle and Mechanism
ACS Nano 11 (2017) 5070–5079.

76. M. Chen, J. Shang, Y. Wang*, K. Wu*, J. Kuttner, G. Hilt, W. Hieringer*, **J. M. Gottfried***
On-Surface Synthesis and Characterization of Honeycombene Oligophenylene Macrocycles
ACS Nano 11 (2017) 134-143.

75. B. Wagner, N. Dehnhardt, M. Schmid, B. P. Klein, L. Ruppenthal, P. Müller, M. Zugermeier, **J. M. Gottfried**, S. Lippert, M.-U. Halbich, A. Rahimi-Iman, J. Heine*
Color Change Effect in an Organic–Inorganic Hybrid Material Based on a Porphyrin Diacid
J. Phys. Chem. C 120 (2016) 28363–28373.

74. **J.M. Gottfried***
Quantitative Model Studies for Interfaces in Organic Electronic Devices
New J. Phys. 18 (2016) 113022.

73. M. Chen, H. Zhou, B. P. Klein, M. Zugermeier, C. K. Krug, H.-J. Drescher, M. Gorgoi, M. Schmid, **J. M. Gottfried***
Formation of an Interphase Layer During Deposition of Cobalt onto Tetraphenylporphyrin: A Hard X-Ray Photoelectron Spectroscopy (HAXPES) Study
Phys. Chem. Chem. Phys. 18 (2016) 30643 - 30651.

72. I.P. Hong, N. Li, Y.-J. Zhang, H. Wang, H.-J. Song, M.-L. Bai, X. Zhou, J.-L. Li, G.-C. Gu, X. Zhang, M. Chen, **J. M. Gottfried**, D. Wang, J.-T. Lü, L.-M. Peng, S.-M. Hou, R. Berndt, K. Wu, Y.-F. Wang*
Vacuum synthesis of magnetic aluminum phthalocyanine on Au(111)
Chem. Comm. 52 (2016) 10338-10341.

71. J. Dai, Q. Fan, T. Wang, J. Kuttner, G. Hilt, **J.M. Gottfried***, J.F. Zhu*
The role of the substrate structure in the on-surface synthesis of organometallic and covalent oligophenylene chains
Phys. Chem. Chem. Phys. 18 (2016) 20627-20634.

70. Q. Fan, J. Dai, T. Wang, J. Kuttner, G. Hilt, **J.M. Gottfried***, J.F. Zhu*
Confined Synthesis of Organometallic Chains and Macrocycles by Cu–O Surface Templating
ACS Nano 10 (2016) 3747–3754

69. C. Wang, Q. Fan, Y. Han, J. I. Martínez, J. A. Martín-Gago, W. Wang, H. Ju, **J. M. Gottfried***, J.F. Zhu*
Metalation of tetraphenylporphyrin with nickel on a TiO_2(110)-1×2 surface
Nanoscale 8 (2016) 1123–1132.

68. M. Schmid*, H.-P. Steinrück, **J.M. Gottfried**
A new asymmetric Pseudo-Voigt function for more efficient fitting of XPS lines (vol 46, pg

505, 2014)
Surf. Interface Anal. 47 (2015) 1080.

67. M. Sachs, M. Gellert, M. Chen, H.-J. Drescher, S.R. Kachel, H. Zhou, M. Zugermeier, M. Gorgoi, B. Roling, **J.M. Gottfried***
$LiNi_{0.5}Mn_{1.5}O_4$ High-Voltage Cathode Coated with $Li_4Ti_5O_{12}$: A Hard X-ray Photoelectron Spectroscopy (HAXPES) Study
Phys. Chem. Chem. Phys. 17 (2015) 31790-31800.

66. Q. Fan, **J.M. Gottfried**, J.F. Zhu*
Surface-catalyzed C-C covalent coupling strategies towards the synthesis of low-dimensional carbon-based nanostructures
Acc. Chem. Res. 48 (2015) 2484–2494.

65. A. Dees, N. Jux, O. Tröppner, K. Dürr, R. Lippert, M. Schmid, B. Küstner, S. Schlücker, H.-P. Steinrück, **J.M. Gottfried**, I. Ivanović-Burmazović*
Reactions of superoxide with iron porphyrins in the bulk and the near-surface region of ionic liquids
Inorg. Chem. 54 (2015) 6862–6872.

64. **J.M. Gottfried***
Surface Chemistry of Porphyrins and Phthalocyanines
Surf. Sci. Rep. 70 (2015) 259-379.

63. J. Shang, Y.F. Wang*, M. Chen, J.X. Dai, X. Zhou, J. Kuttner, G. Hilt, X. Shao, **J.M. Gottfried***, K. Wu*
Assembling Molecular Sierpinski Triangle Fractals
Nature Chem. 7 (2015) 389-393.
Related Nature Chemistry News&Views Article: S.L. Tait, *Self-assembling Sierpinski triangles,* Nature Chem. 7 (2015) 370-371

62. Q. Fan, T. Wang, L. Liu, J. Zhao, J.F. Zhu*, **J.M. Gottfried***
Tribromobenzene on Cu(111): Temperature-Dependent Formation of Halogen-Bonded, Organometallic and Covalent Nanostructures
J. Chem. Phys. 142 (2015) 101906.

61. C. Wang, Q. Fan, S. Hu, H. Ju, X. Feng, Y. Han, H. Pan, J.F. Zhu*, **J. M. Gottfried***
Coordination reaction between tetraphenylporphyrin and nickel on a TiO_2(110) surface
Chem. Comm. 50 (2014) 8291-8294.

60. Q. Fan, C. Wang, L. Liu, Y. Han, J. Zhao, J. Zhu*, J. Kuttner, G. Hilt, **J. M. Gottfried***
Covalent, organometallic and halogen bonded nanomeshes from tetrabromo-terphenyl by surface-assisted synthesis on Cu(111)
J. Phys. Chem. C 118 (2014) 13018-13025.

59. M. Schmid*, H.-P. Steinrück, **J.M. Gottfried**
A new asymmetric Pseudo-Voigt function for more efficient fitting of XPS lines
Surf. Interface Anal. 46 (2014) 505-511.

58. M. Chen, M. Röckert, J. Xiao, H.-J. Drescher, H.-P. Steinrück, O. Lytken, **J.M. Gottfried***
Coordination reactions and layer exchange processes at a buried metal-organic interface
J. Phys. Chem. C 118 (2014) 8501–8507.

57. M. Chen, J. Xiao, H.-P. Steinrück, S. Wang, W. Wang, N. Lin, W. Hieringer, **J.M. Gottfried***
Combined Photoemission and STM Study of the Surface-Assisted Ullmann Coupling

Reaction
J. Phys. Chem. C 118 (2014) 6820-6830.

56. Q. Fan, C. Wang, Y. Han, J. Zhu*, J. Kuttner, G. Hilt, **J. M. Gottfried***
Surface-Assisted Formation, Assembly and Dynamics of Planar Organometallic Macrocycles and Zigzag Shaped Polymer Chains with C-Cu-C Bonds
ACS Nano 8 (2014) 709–718.

55. J.C. Sharp, X.F. Feng, J.A. Farmer, Y.X. Guo, F. Bebensee, J.H. Baricuatro, E. Zillner, J.F. Zhu, H.-P. Steinrück, **J.M. Gottfried**, C.T. Campbell*
Calcium Thin Film Growth on Polyfluorenes: Interface Structure and Energetics
J. Phys. Chem. C 118 (2014) 2953–2962.

54. J. C. Sharp, F. Bebensee, J. H. Baricuatro, H.-P. Steinrück, **J.M. Gottfried**, C.T. Campbell*
Calcium thin film growth on a cyano-substituted poly(p-phenylene vinylene): interface structure and energetics
J. Phys. Chem. C 117 (2013) 23781–23789.

53. (a) **J.M. Gottfried***
Where Does It Vibrate? Raman Spectromicroscopy on a Single Molecule
Angew. Chem. Int. Ed. 52 (2013) 11202–11204.
(b) **J.M. Gottfried***
Kontrast durch Molekülschwingungen: Raman-Spektromikroskopie an adsorbierten Einzelmolekülen
Angew. Chem. 125 (2013) 11410–11412.

52. (a) Q. Fan, C. Wang, Y. Han, J. Zhu*, W. Hieringer, J. Kuttner, G. Hilt, **J. M. Gottfried***
Surface-assisted organic synthesis of hyperbenzene nanotroughs
Angew. Chem. Int. Ed. 52 (2013) 4668-4672.
(b) Q. Fan, C. Wang, Y. Han, J. Zhu*, W. Hieringer, J. Kuttner, G. Hilt, **J. M. Gottfried***
Oberflächengestützte Synthese von Hyperbenzol-Nanogehegen
Angew. Chem. 125 (2013) 4766-4770.

51. J. Xiao, S. Ditze, M. Chen, F. Buchner, M. Stark, M. Drost, H.-P. Steinrück, **J.M. Gottfried***, H. Marbach*
Temperature Dependent Chemical and Structural Transformations from 2H-Tetraphenylporphyrin to Cu Tetraphenylporphyrin on Cu(111)
J. Phys. Chem. C 116 (2012) 12275-12282.

50. Y. Li, J. Xiao, T.E. Shubina, M. Chen, Z. Shi, M. Schmid, H.-P. Steinrück, **J.M. Gottfried***, N. Lin*
Coordination and Metalation Bifunctionality of Cu with 5,10,15,20-tetra(4-pyridyl)porphyrin: Towards a Mixed-Valence Two-Dimensional Coordination Network
J. Am. Chem. Soc. 134 (2012) 6401–6408.

49. M. Schmid, A. Kaftan, H.-P. Steinrück, **J.M. Gottfried***
The Electronic Structure of Cobalt(II) Phthalocyanine Adsorbed on Ag(111)
Surf. Sci. 606 (2012) 945-949.

48. K. Dumbuya, G. Cabailh, R. Lazzari, J. Jupille, L. Ringel, M. Pistor, O. Lytken, H.-P. Steinrück, **J. M. Gottfried***
Evidence for an Active Oxygen Species on Au/TiO_2(110) Model Catalysts during Investigation with in-situ X-ray Photoelectron Spectroscopy
Catalysis Today 181 (2012) 20-25.

47. F. Buchner, J. Xiao, E. Zillner, M. Chen, M. Röckert, S. Gläßel, M. Stark, H.-P. Steinrück, **J. M. Gottfried**, H. Marbach*
Diffusion, Rotation and Surface Chemical Bond of Individual 2H-Tetraphenylporphyrin Molecules on Cu(111)
J. Phys. Chem. C 115 (2011) 24172-24177.

46. M. Schmid, J. Zirzlmeier, H.-P. Steinrück, **J. M. Gottfried***
Interfacial Interactions of Iron(II) Tetrapyrrole Complexes on Au(111)
J. Phys. Chem. C 115 (2011) 17028–17035.

45. M. Schmid, W. Hieringer, C. H. Schmitz, H.-P. Steinrück, M. Sokolowski, **J. M. Gottfried***
Adsorption and Reaction of Terephthaloyl Chloride on Ag(111): X-ray Photoelectron Spectroscopy and Density-Functional Theory Investigation
J. Phys. Chem. C 115 (2011) 14869–14875.

44. C. H. Schmitz*, M. Schmid, S. Gärtner, H.-P. Steinrück, **J. M. Gottfried**, M. Sokolowski
Surface Polymerization of Poly(p-phenylene-terephthalamide) on Ag(111) Investigated by X-ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy
J. Phys. Chem. C 115 (2011) 18186–18194.

43. W. Hieringer*, K. Flechtner, A. Kretschmann, K. Seufert, W. Auwärter, J. V. Barth, A. Görling, H.-P. Steinrück, **J. M. Gottfried***
The Surface Trans Effect: Influence of Axial Ligands on the Surface Chemical Bonds of Adsorbed Metalloporphyrins
J. Am. Chem. Soc. 133 (2011) 6206-6222.

42. J. M. Englert, Ch. Dotzer, G. Yang, M. Schmid, Ch. Papp, **J. M. Gottfried**, H.-P. Steinrück, E. Spiecker, F. Hauke, A. Hirsch*
Covalent Bulk Functionalization of Graphene
Nature Chemistry 3 (2011) 279-286.

41. A. Ramakrishnan, K. Dumbuya, J. Ofili, H.-P. Steinrück, **J. M. Gottfried**, W. Schwieger*
Synthesis and characterization of highly dispersed and stabilised Pd nanoparticles within silica host material
Appl. Clay Sci. 51 (2011) 8-14.

40. O. Lytken, **J.M. Gottfried***
Nanojoule-Adsorptionskalorimetrie: Messung von Adsorptionsenergien auf wohldefinierten Oberflächen
Bunsenmagazin 13 (2011) 17.

39. F. Bebensee, M. Schmid, H.-P. Steinrück, C.T. Campbell, **J. M. Gottfried***
Towards Well-Defined Metal-Polymer Interfaces: Temperature-Controlled Suppression of Subsurface Diffusion and Reaction at the Ca / P3HT Interface
J. Am Chem. Soc. 132 (2010) 12163-12165.

38. M. Chen, X.F. Feng, L. Zhang, H.X Ju, Q. Xu, J.F. Zhu*, **J.M. Gottfried***, K. Ibrahim, Q. Hanjie, J. Wang
Direct Synthesis of Nickel(II) Tetraphenylporphyrin and its Interaction with a Au(111) Surface: A Comprehensive Study
J. Phys. Chem. C 114 (2010) 9908-9916.

37. M. Sobota, M. Schmid, M. Happel, M. Amende, H.-P. Steinrück, N. Paape, P. Wasserscheid, M. Laurin*, **J. M. Gottfried***, J. Libuda
Ionic Liquid Based Model Catalysis: Interaction of [BMIM][Tf_2N] with Pd Nanoparticles

Supported on an Ordered Alumina Film
Phys. Chem. Chem. Phys. 12 (2010) 10610-10621.

36. F. Bebensee, J. F. Zhu, J. H. Baricuatro, J. A. Farmer, Y. Bai, H.-P. Steinrück, C. T. Campbell*, **J. M. Gottfried***
Interface Formation between Calcium and Electron-Irradiated Poly(3-Hexylthiophene)
Langmuir 26 (2010) 9632-9639.

35. Y. Bai, M. Sekita, M. Schmid, T. Bischof, H.-P. Steinrück, **J. M. Gottfried***
Interfacial Coordination Interactions Studied on Cobalt Octaethylporphyrin and Cobalt Tetraphenylporphyrin Monolayers on Au(111)
Phys. Chem. Chem. Phys. 12 (2010) 4336-4344 (invited article).

34. J.F. Zhu, F. Bebensee, W. Hieringer, W. Zhao, J.H. Baricuatro, J.A. Farmer, Y. Bai, H.-P. Steinrück, **J. M. Gottfried***, C.T. Campbell*
Formation of the Calcium/Poly(3-Hexylthiophene) Interface: Structure and Energetics
J. Am Chem. Soc. 131 (2009) 13498-13507.

33. Y. Bai, F. Buchner, I. Kellner, M. Schmid, F. Vollnhals, H.-P. Steinrück, H. Marbach* and **J. M. Gottfried***
Adsorption of Cobalt(II) Octaethylporphyrin and 2H-Octaethylporphyrin on Ag(111): New Insight into the Surface Coordinative Bond
New J. Phys. 11 (2009) 125004.
Invited article / Focus Issue: *Advances in Surface and Interface Science 2009*

32. F. Buchner, K. Seufert, W. Auwärter, D. Heim, J. V. Barth, K. Flechtner, **J. M. Gottfried**, H.-P. Steinrück, H. Marbach*
NO-induced reorganization of porphyrin arrays
ACS Nano 3 (2009) 1798-1794.

31. Ch. H. Schmitz*, C. Rang, Y. Bai, I. Kossev, J. Ikonomov, Y. Su, K. Kotsis, S. Soubatch, O. Neucheva, F. S. Tautz, F. Neese, H.-P. Steinrück, **J. M. Gottfried**, K. H. Dötz, M. Sokolowski
A comparative study of a triphenylene tricarbonyl chromium complex and its uncoordinated arene ligand on the Ag(111) surface: Influence of the complexation on the adsorption
J. Phys. Chem. C 113 (2009) 6014-6021.

30. A. Wittstock, B. Neumann, A. Schaefer, K. Dumbuya, C. Kübel, M. M. Biener, V. Zielasek, H.-P. Steinrück, **J. M. Gottfried***, J. Biener*, A. Hamza, M. Bäumer*
Nanoporous Au: an unsupported pure gold catalyst?
J. Phys. Chem. C 113 (2009) 5593–5600.

29. B. Cojocaru, Ş. Neaţu, V. I. Pârvulescu, K. Dumbuya, H.-P. Steinrück, **J. M. Gottfried**, C. Aprile, H. Garcia, J.C. Scaiano
Band gap effect on the photocatalytic activity of supramolecular structures obtained by entrapping photosensitizers in different inorganic supports
Phys. Chem. Chem. Phys. 11 (2009) 5569 – 5577.

28. **J.M. Gottfried***
Editor's Preface, Special Issue on the Occasion of the 65th Birthday of Prof. Dr. Klaus Christmann
Z. Phys. Chem. 223 (2009) 1-7.

27. **J.M. Gottfried*** and H. Marbach
Surface-confined coordination chemistry with porphyrins and phthalocyanines: Aspects

of formation, electronic structure, and reactivity
Z. Phys. Chem. 223 (2009) 53-74.

26. T. Cremer, M. Killian, **J.M. Gottfried**, N. Paape, P. Wasserscheid, F. Maier*, H.-P. Steinrück
Physical Vapor Deposition of [EMIM][Tf_2N]: A New Approach to the Modification of Surface Properties with Ultrathin Ionic Liquid Films
ChemPhysChem 9 (2008) 2185 - 2190.

25. F. Buchner, K. Flechtner, Y. Bai, E. Zillner, I. Kellner, H.-P. Steinrück, H. Marbach, and **J.M. Gottfried***
Coordination of Iron Atoms by Tetraphenylporphyrin Monolayers and Multilayers and Formation of Iron-Tetraphenylporphyrin
J. Phys. Chem. C 112 (2008) 15458-15465.

24. **J.M. Gottfried***
Comment on: "Formation and Thermal Stability of Au_2O_3 on Gold Nanoparticles: Size and Support Effects"
J. Phys. Chem. C 112 (2008) 16721-16722.

23. F. Neatu, Z. Li, R. Richards, P.Y. Toullec, J.-P. Genet, K. Dumbuya, **J.M. Gottfried***, H.-P. Steinrück, V.I. Parvulescu*, V. Michelet*
Heterogeneous Gold Catalysts for Efficient Access to Functionalized Lactones
Chem. Eur. J. 14 (2008) 9412 – 9418.

22. O. Lytken, W. Lew, J. J. W. Harris, E. K. Vestergaard, **J. M. Gottfried**, C. T. Campbell*
Energetics of Cyclohexene Adsorption and Reaction on Pt(111) by Low-Temperature Microcalorimetry
J. Am Chem. Soc. 130 (2008) 10247–10257.

21. Y. Bai, F. Buchner, M. T. Wendahl, I. Kellner, A. Bayer, H.-P. Steinrück, H. Marbach*, **J. M. Gottfried***
Direct metalation of a phthalocyanine monolayer on Ag(111) with co-adsorbed iron atoms
J. Phys. Chem. C 112 (2008) 6087-6092.

20. A. Desikusumastuti, M. Happel, K. Dumbuya, T. Staudt, M. Laurin, **J. M. Gottfried**, H.-P. Steinrück, J. Libuda*
Modeling NO_x Storage Materials: On the Formation of Surface Nitrites and Nitrates and Their Identification by Vibrational Spectroscopy
J. Phys. Chem. C 112 (2008) 6477-6486.

19. K. Comanici, F. Buchner, K. Flechtner, T. Lukasczyk, **J. M. Gottfried***, H.-P. Steinrück, H. Marbach*
Understanding the Contrast Mechanism in STM Images of an Intermixed Tetraphenylporphyrin Layer on Ag(111)
Langmuir 24 (2008) 1897-1901.

18. K. Flechtner, A. Kretschmann, H.-P. Steinrück, and **J. M. Gottfried***
NO-Induced Reversible Switching of the Electronic Interaction between a Porphyrin-Coordinated Metal Ion and a Silver Surface
J. Am. Chem. Soc. 129 (2007) 12110-12111.

17. T. E. Shubina, H. Marbach, K. Flechtner, A. Kretschmann, N. Jux, F. Buchner, H.-P. Steinrück, T. Clark, and **J. M. Gottfried***
Principle and Mechanism of Direct Porphyrin Metalation: Joint Experimental and

Theoretical Investigation
J. Am. Chem. Soc. 129 (2007) 9476-9483.

16. K. Flechtner, A. Kretschmann, L. R. Bradshaw, M.-M. Walz, H.-P. Steinrück, and **J.M. Gottfried***
Surface-Confined Two-Step Synthesis of the Complex (Ammine)(meso-tetraphenylporphyrinato)-zinc(II) on Ag(111)
J. Phys. Chem. C 111 (2007) 5821-5824.

15. A. Kretschmann, M.-M. Walz, K. Flechtner, H.-P. Steinrück, and **J.M. Gottfried***
Tetraphenylporphyrin picks up zinc atoms from a silver surface
Chem. Commun. 2007, 568-570.

14. T. Lukasczyk, K. Flechtner, L.R. Merte, N. Jux, F. Maier, **J.M. Gottfried***, H.-P. Steinrück
Interaction of cobalt(II)-tetraarylporphyrins with a Ag(111) surface studied with photoelectron spectroscopy
J. Phys. Chem. C 111 (2007) 3090-3098.

13. **J.M. Gottfried**, F. Maier*, J. Rossa, D. Gerhard, P.S. Schulz, P. Wasserscheid, and H.-P. Steinrück
Surface studies on the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate using X-ray photoelectron spectroscopy (XPS)
Z. Phys. Chem. 220 (2006) 1439-1453.

12. F. Maier*, **J.M. Gottfried**, J. Rossa, D. Gerhard, P.S. Schulz, W. Schwieger, P. Wasserscheid, and H.-P. Steinrück
Surface enrichment and depletion effects of ions dissolved in an ionic liquid. An X-ray photoelectron spectroscopy (XPS) study
Angew. Chem. Int. Ed. 45 (2006) 7778-7780 and Angew. Chem. 118 (2006) 7942-7944.

11. **J.M. Gottfried**, E.K. Vestergaard, P. Bera, and C.T. Campbell*
The Heat of Adsorption of Naphthalene on Pt(111) Measured by Adsorption Calorimetry
J. Phys. Chem. B 110 (2006) 17539-17545.

10. **J.M. Gottfried***, K. Flechtner, A. Kretschmann, Th. Lukasczyk, H.-P. Steinrück
Direct synthesis of a metalloporphyrin complex on a surface
J. Am. Chem. Soc. 128 (2006) 5644-5645.

9. H. Ihm, H.M. Ajo, **J.M. Gottfried**, P. Bera, C.T. Campbell*
Calorimetric Measurements of the Heat of Adsorption of Benzene on Pt(111)
J. Phys. Chem. B 108 (2004) 14627-14633.

8. **J.M. Gottfried*** and K. Christmann
Oxidation of Carbon Monoxide on Au(110)-(1×2)
Surf. Sci. 566 (2004) 1112-1117.

7. **J.M. Gottfried***, K.J. Schmidt, S.L.M. Schroeder, K. Christmann
Adsorption of Carbon Monoxide on Au(110)-(1×2)
Surf. Sci. 536 (2003) 206-224.

6. **J.M. Gottfried***, K.J. Schmidt, S.L.M. Schroeder, K. Christmann
Oxygen Chemisorption on Au(110)-(1×2). Part I: Thermal Desorption Measurements
Surf. Sci. 525 (2003) 184-196.

5. **J.M. Gottfried***, K.J. Schmidt, S.L.M. Schroeder, K. Christmann
Oxygen Chemisorption on Au(110)-(1×2). Part II: Spectroscopic and Reactive Thermal

Desorption Measurements
Surf. Sci. 525 (2003) 197-206.

4. **J.M. Gottfried***, N. Elghobashi, S.L.M. Schroeder, K. Christmann
Oxidation of Gold by Oxygen-Ion Sputtering
Surf. Sci. 523 (2003) 89-102.

3. **J.M. Gottfried***, K. J. Schmidt, S. L. M. Schroeder, K. Christmann
Spontaneous and electron-induced adsorption of oxygen on Au(110)-(1×2)
Surf. Sci. 511 (2002) 65-82.

2. C. Glidewell*, S.Z. Ahmed, **M. Gottfried**, P. Lightfoot, B.J.L. Royles, J.P. Scott, J. Wonnemann
Synthesis of ferrocenyl-1,2-diketones and related compounds: Crystal and molecular structures of 1,2-diferrocenylethanedione and 1-ferrocenyl-2-(4-biphenylyl)ethanedione
J. Organomet. Chem. 530 (1997) 177-185.

1. C. Glidewell*, **M.J. Gottfried**, J. Trotter, G. Ferguson
1-Ferrocenyl-2-phenylethanedione
Acta Cryst. C 52 (1996) 773-775.

B. Book Chapters and Other Contributions

6. Q. T. Fan, **J. M. Gottfried**
Synthesis in flatland: rings and chains grown on surfaces
Nature Portfolio Chemistry Community, https://go.nature.com/2NOPbzR (2019).

5. Q.T. Fan, J.F. Zhu, **J. M. Gottfried**
Organometallic Structures and Intermediates in Surface Ullmann Coupling
In: Wandelt, K., (Ed.) Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry, Vol. 4, pp. 343-353, Elsevier 2018.

4. Q.T. Fan, J.F. Zhu, **J. M. Gottfried**
On-surface Ullmann Reaction for the Synthesis of Polymers and Macrocycles
In: D. de Oteyza, C. Rogero (Eds.), On-Surface Synthesis II. Advances in Atom and Single Molecule Machines. Springer 2018.

3. **J. M. Gottfried**
Molecular on-surface synthesis: Metal complexes, organic molecules and organometallic compounds
In: A. Gourdon (Ed.), *On-Surface Synthesis,* Springer 2016.

2. **J. M. Gottfried**, R. Schuster
Surface Microcalorimetry
In: K. Wandelt (Ed.), *Surface and Interface Science, Volume 5: Solid-Gas Interfaces I,* Wiley-VCH Verlag, 2015.

1. O. Lytken, H.-J. Drescher, R. Kose, **J. M. Gottfried**
Adsorption Calorimetry on Well-Defined Surfaces
In: G. Bracco, B. Holst (Eds.), *Surface Science Techniques,* Springer-Verlag Berlin Heidelberg New York, 2013.

C. Habilitation, Doctoral (PhD), and Diploma Theses

3. *Surface Chemistry of Porphyrins and other Complex Adsorbate Systems,* Habilitation Thesis, Friedrich-Alexander-Universität Erlangen-Nürnberg 2009, https://www.uni-marburg.de/fb15/ag-gottfried/jmghabil.pdf

2. *CO Oxidation over Gold. Adsorption and Reaction of Oxygen, Carbon Monoxide and Carbon Dioxide on a Au(110)-(1x2) Surface*, Doctoral (PhD) Thesis, Freie Universität Berlin 2003, https://refubium.fu-berlin.de/handle/fub188/517

1. *Adsorption von Sauerstoff auf einer Au(110)-(1x2)-Oberfläche*, Diploma Thesis, Freie Universität Berlin 1999.

D. Invited Lectures

130. 08.11.2024 – Plenary Lecture, 10th Meeting on Physics and Chemistry of Surfaces (X Encuentro de Física y Química de Superficies), Bariloche, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

129. 04.11.2024 – Colloquium, Centro Atómico Bariloche, Argentina, *Surface Chemistry of Porphyrins and Phthalocyanines*

128. 01.11.2024 – Colloquium, Instituto de Investigaciones Físico-Químicas, Teóricas y Aplicadas, Universidad Nacional de La Plata, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

127. 28.10.2024 – Seminario DQIAyQF/INQUIMAE, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

126. 23.06.2024 - Invited Lecture, International Conference on Porphyrins and Phthalocyanines (ICPP-13), Buffalo, USA, June 23-28, 2024, *Porphyrins, Corroles and Beyond: On-Surface Synthesis and Electronic Properties*

125. 14.06.2024 – Zernike Seminar, University of Groningen, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

124. 26.05.2024 – Invited lecture, 245th ECS Meeting, San Francisco, USA, May 26-30, 2024, *Exploring New Carbon Allotropes and Nanographenes on Surfaces*

123. 15.04.2024 – Colloquium, Karlsruhe Institute of Technology (KIT), *New Carbon Allotropes and Nanographenes by On-Surface Synthesis and Single-Molecule Manipulation*

122. 10.03.2024 - Invited Lecture, 1st TIDE Conference “Template-Designed Organic Electronics & Beyond”, March 10-13, 2024, Cologne, Germany, *Exploring New Carbon Allotropes and Nanographenes: On Surface Synthesis and Single-Molecule Manipulation*

121. 22.01.2024 - Invited Lecture, Lavoisier Discussion “Bottom-up Synthesis of Graphene Related Materials”, ENS Paris-Saclay, France, January 22-23, 2024, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

120. 16.10.2023 – Invited lecture, 40 Years of Surface Science and Nanotechnology, Ascona, Switzerland, October 15-20, 2023, *New Carbon Allotropes and Nanographenes by On-Surface Synthesis*

119. 06.09.2023 – Invited lecture, 30th Conference of the Condensed Matter Division of the European Physical Society (CMD-30), Milano, Italy, September 04-08, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Low-Dimensional Carbon Allotropes*
118. 06.06.2023 – Keynote Lecture, Canadian Chemistry Conference and Exhibition (CSC 2023), Vancouver/BC, Canada, June 4-8, 2023, *On-Surface Synthesis and Characterization of Low-Dimensional Non-Benzenoid Carbon Allotropes*
117. 15.05.2023 – Invited Tutorial Lecture, ERC-SyG TACY Kickoff Meeting, Landhotel Freinsheim, Germany, May 15-16, 2023, *Surface Chemistry and Single-Molecule Manipulation for the Synthesis of Novel Aromatic Molecules*
116. 09.05.2023 – Invited Lecture, PriOSS Symposium, Schloss Rauischholzhausen, Germany, May 08-10, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
115. 19.04.2023 – GDCh Colloquium, University of Jena, *On-Surface Synthesis and Characterization of sp^2 Carbon Allotropes*
114. 16.04.2023 – Keynote Lecture, 10th International Forum on Graphene, and 4th International Conference on Energy Storage Materials, Shenzhen, China, April 13-16, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
113. 28.03.2023 – Hauptvortrag (Overview lecture), Annual Meeting of the German Physical Society (DPG), Dresden, March 26-31, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
112. 30.10.2022 – Frontiers of Elemento-Organic Chemistry Lectureship, Nankai-University, China, *On-Surface Synthesis as a Versatile Route to Nanographenes and Novel Carbon Allotropes*
111. 13.10.2022 – Colloquium, Technical University of Dresden and Collaborative Research Centre 1415 “Chemistry of Synthetic Two-Dimensional Materials”, Dresden, Germany, *Novel Non-Benzenoid Carbon Allotropes by On-Surface Synthesis*
110. 03.10.2022 – Colloquium, Catalan Institute of Nanoscience and Nanotechnology and acronym (ICN2), Barcelona, Spain, *On-Surface Synthesis as a Versatile Route to Novel Non-Benzenoid Carbon Allotropes*
109. 30.09.2022 – Invited lecture, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022, *Nonbenzenoid Graphene Isomers by On-Surface Synthesis*
108. 23.08.2022 – Invited lecture, 29th Conference of the Condensed Matter Division of the European Physical Society (CMD-29), Manchester, UK, 21-26 Aug 2022, *Fluoroarenes in On-Surface Synthesis and Organic/TMDC Hybrid Interfaces*
107. 15.07.2022 – Invited lecture, International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022, *Interface Chemistry of Expanded and Contracted Oligopyrroles: On-Surface Synthesis and Electronic Properties*
106. 26.05.2022 – Invited lecture, National University of Singapore, Faculty of Science, Department of Chemistry Seminar Series, *Novel Non-Benzenoid Graphene Isomers by On-Surface Synthesis (online)*
105. 10.05.2022 – Invited lecture, CNRS GDR HOWDI Annual Meeting, Low-Dimensional van der Waals Heterostructures, Dourdan, France, 9-13 May 2022, *Nonbenzenoid Carbon Allotropes Made by On-Surface Synthesis*

104. 16.03.2022 – Invited lecture, OsMolsys Seminar Series, *Non-benzenoid carbon allotropes: On-surface synthesis and interfacial bonding (online)*

103. 15.03.2022 – Colloquium, Peter Grünberg Institute for Quantum Nanoscience (PGI-3), Forschungszentrum Jülich, *Non-benzenoid carbon allotropes: On-surface synthesis and interfacial bonding (online)*

102. 21.01.2022 – Invited lecture, NJUST-KU-Workshop 2022 on Catalysis & Energy Materials Research, Nanjing, China (hybrid conference), 20-21 January 2022, *On-surface reactions on carbon-based nanomaterials (online)*

101. 01.03.2021 – Colloquium, Christian-Albrechts-Universität zu Kiel, *Carbon-Based and Metal-Organic Functional Nanosystems at Surfaces and Interfaces (online)*

100. 23.12.2020 – Invited lecture, online symposium “Surface Science and Catalysis Studied by Advanced Techniques”, University of Science and Technology of China (USTC), *Surface – Interface – Device: The Versatile World of Low-Dimensional Carbon-Based Materials (online)*

99. 22.09.2020 – Invited lecture, On-Surface Synthesis International Workshop (OSS-20), Sant Feliu de Guixols, Spain, 20-25 September 2020, *Nonalternant Conjugated π-Electron Systems in On-Surface Synthesis* (cancelled because of COVID-19)

98. 08.04.2020 – Colloquium, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany, *Functional Nanomaterials in 2D Confinement: Surface Reactions, Topology, Aromaticity* (cancelled because of COVID-19)

97. 11.02.2020 – Colloquium, Universität Ulm, Ulm, Germany, *Surface, Interface, Material: Advanced Spectroscopy and Microscopy on Complex Model Systems*

96. 26.08.2019 – Invited Lecture, American Chemical Society (ACS) Meeting, "Adsorption and Reaction at Surfaces: Symposium in Honor of Charles T. Campbell", San Diego, USA, August 25-29, 2019. *Synthetic Surface Chemistry: A Versatile Route to Low-Dimensional Nanostructures*

95. 04.07.2019 – Invited Lecture, 21st International Vacuum Congress (IVC-21), 17th International Conference on Surface Science (ICSS-17), 2019 International Conference on Nanoscience + Technology (ICN+T 2019), and NanoForum 2019, Malmö, Sweden July 1-5, 2019. *Carbon-Based Functional Nanomaterials in 2D Confinement: On-Surface Synthesis, Aromaticity, and Molecular Topology*

94. 07.02.2019 – Invited lecture, Symposium "40 Years of Surface Science“, Erlangen, 07 February 2019, *Synthetic Surface Chemistry: A Versatile Route to Low-Dimensional Nanostructures*

93. 18.12.2018 – Invited lecture, 10th Singapore International Chemical Conference (SICC-10), Singapore, 16-19 December 2018, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Systems as Functional Structural Elements*

92. 04.12.2018 – Colloquium, Charles University Prague, *Carbon-Based Nanomaterials in 2D Confinement: Surface Reactions, Aromaticity and Molecular Topology*

91. 09.10.2018 – Invited lecture, Autumn School on Surface Chemical Physics and Functional Interfaces, Schönau am Königsee, Berchtesgaden, Germany, 08-11 October 2018, *Carbon-Based Nanomaterials: Synthesis and Characterization in 2D Confinement*

90. 04.10.2018 – Colloquium, Department of Physics, University of Stavanger, Norway, *Surface Science of Low-Dimensional Carbon-Based Nanostructures*

89. 24.09.2018 – Invited lecture, On-Surface Synthesis International Workshop (OSS-18), Sant Feliu de Guixols, Spain, 23-28 September 2018, *Carbon-Based Nanomaterials: Synthesis and Characterization in 2D Confinement*

88. 04.09.2018 – Invited lecture, International Workshop on Synchrotron Radiation Spectroscopies for Energy Related Materials, Hefei, China, 02-05 September 2018, *Quantitative Model Studies of Metal/Organic Interfaces*

87. 27.08.2018 – Invited lecture, 34th European Conference on Surface Science (ECOSS-34), Satellite Meeting "Molecular Reaction on Surfaces" Aarhus, Denmark, 26-31 September 2018, *On-Surface Synthesis of Cyclic and Open-Chain Carbon-Based Nanomaterials*

86. 05.07.2018 – Invited lecture, 10th International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich, Germany, July 01-06, 2018, *Interface Chemistry of Expanded and Contracted Oligopyrroles: On-Surface Synthesis, Reactions, and Electronic Properties*

85. 15.05.2018 – Colloquium, University of Washington, WA, Seattle, USA, *Non-Alternant Aromatic Molecules and Synthetic Surface Chemistry*

84. 13.05.2018 – Invited lecture, 233rd Meeting of The Electrochemical Society (ECS), Seattle, WA, USA, May 13 – 17, 2018, *Assemblies of Expanded and Contracted Oligopyrroles: On-Surface Synthesis, Reactions, and Electronic Properties*

83. 26.04.2018 – GDCh Colloquium, Universität Kiel, Germany, *Synthetic Surface Chemistry: A Versatile Route to Novel Organic Molecules, Polymers, and Metal Complexes*

82. 15.03.2018 – Colloquium, Universität Wien, Vienna, Austria, *Advanced Spectroscopy and Microscopy at Complex Interfaces*

81. 08.12.2017 – Invited lecture, 3rd Joint Workshop SFB1073 & 1083, Göttingen, Germany, December 8, 2017, *Interface Chemistry of Reactive Tetrapyrroles*

80. 07.11.2017 – Colloquium, Universität Mainz, *Surface and Interface Chemistry of Reactive Tetrapyrroles*

79. 18.07.2017 – Invited lecture, funCOS Seminar (FOR 1878: Functional Molecular Structures on Complex Oxide Surfaces), Erlangen, Germany, *Synthetic Surface Chemistry: Formation of Macrocycles and Nanostructures in Confinement*

78. 30.06.2017 – Invited lecture, 8th International Workshop on Surface Physics (IWSP-2017), 26-30 June 2017, Trzebnica/Wrocław, Poland, *Surface science of reactive aromatic molecules*

77. 17.05.2017 – Colloquium, Universität Köln, Germany, *Advanced Spectroscopy and Microscopy at Complex Interfaces*

76. 23.01.2017 – Colloquium, Freie Universität Berlin, Germany, *Advanced Spectroscopy and Microscopy at Complex Interfaces*

75. 14.12.2016 – Invited lecture, Symposium “Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces”, December 12-16, 2016, Hong Kong, China, *Aromatic Macrocycles at Interfaces*

74. 05.12.2016 – Invited lecture, Wilhelm Ostwald Colloquium, University Leipzig, Germany, *Interface-Assisted Synthesis: A Versatile Route to Novel Organic Molecules, Polymers and Metal Complexes*

73. 06.09.2016 – Invited lecture, Symposium "Functional Molecules at Surfaces", 26th Conference of the EPS Condensed Matter Division (CMD-26), Groningen, The Netherlands, September 4-9, 2016, *Surface chemistry with reactive aromatic molecules and metal complexes*

72. 24.06.2016 – Colloquium, Friedrich-Schiller-Universität Jena, Jena, Germany, *Surface Science of Porphyrins, Phthalocyanines, and Corroles*

71. 10.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), Universität Genf, Geneva, Switzerland, *Organometallic and coordination chemistry on surfaces*

70. 09.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland, *Surface assisted synthesis – a versatile route to novel organic molecules and polymers*

69. 08.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), ETH Zürich, Zurich, Switzerland, *Surface-assisted synthesis - a versatile route to novel organic molecules and polymers*

68. 07.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), Universität Zürich, Zurich, Switzerland, *Surface chemistry of porphyrins, phthalocyanines and other reactive tetrapyrroles*

67. 06.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), EMPA Dübendorf, Switzerland, *Beyond the hexagon: Surface chemistry of non-alternant aromatic molecules*

66. 12.05.2016 – Invited Lecture, Symposium "Understanding of Advanced Functional Materials", Uppsala, Sweden, *Interface Chemistry of Reactive Aromatic Molecules and Metal Complexes*

65. 26.04.2016 – Colloquium, Technische Universität Ilmenau, Germany, *Surface Science of Reactive Aromatic Molecules and Metal Complexes*

64. 09.11.2015 - Invited lecture, 1st funCOS International Workshop, Functional Molecular Structures on Complex Oxide Surfaces (FOR 1878), Erlangen, November 8-10, 2015, *Surface-assisted synthesis - a versatile route to novel organic molecules and metal complexes*

63. 01.10.2015 - Invited lecture, FISMAT 2015 - Conference on Condensed Matter Physics, Palermo, Italy, September 28 - October 2, 2015, *On-surface synthesis of metal complexes, organic molecules and organometallic compounds*

62. 04.08.2015 - Colloquium, Tongji-University Shanghai, China, *Surface Chemistry of Porphyrins and other Reactive Aromatic Molecules*

61. 27.07.2015 - Colloquium, University of Science and Technology of China, *Surface Chemistry of Porphyrins, Phthalocyanines, and Corroles*

60. 19.03.2015 – Invited lecture, Annual Meeting of the German Physical Society (DPG), Berlin, March 15-20, 2015, *On-surface synthesis of molecular and polymeric nanostructures*

59. 21.01.2015 – Colloquium, Eberhard Karls Universität Tübingen, Germany, *Surface Chemistry of Reactive Aromatic Molecules*

58. 09.07.2014 – Colloquium, Max-Planck-Institute for Solid State Research, Stuttgart, Germany, Synthesis *in flatland: Metal complexes, macrocycles and nanowires made by surface-assisted reactions*

57. 07.07.2014 – Colloquium, Karlsruhe Institute for Technology, Karlsruhe, Germany, Synthesis *in flatland: Metal complexes, macrocycles and nanowires made by surface-assisted reactions*

56. 27.06.2014 – Invited Lecture, 8th International Conference on Porphyrins and Phthalocyanines (ICPP-7), Istanbul, Turkey, June 22 - 27, 2014. *Surface coordination and magnetochemistry with tetrapyrrole complexes*

55. 30.05.2014 – Invited lecture, Workshop "On surface synthesis", Ecole de Physique des Houches, May 25-30, 2014, *On-surface synthesis of metal complexes and organic/organometallic compounds*

54. 06.11.2013 – GDCh-Colloquium, Friedrich-Schiller-Universität Jena, Germany, *Reactive nanostructuring of interfaces: Bridges between surface science, coordination chemistry and organic synthesis*

53. 03.06.2013 – Colloquium, Karl-Franzens-Universität Graz, Österreich, *Reaktive Nanostrukturierung von Oberflächen: Porphyrine, Metallorganische Netzwerke und Nanogehege, Ionische Flüssigkeiten*

52. 27.11.2012 – Colloquium, Universität Ulm, Institut für Elektrochemie, Ulm, Germany, *Bridges between Surface Science and Coordination Chemistry: Porphyrins, Metal-Organic Networks and Ionic Liquids*

51. 24.09.2012 – Colloquium, Institute for Advanced Study, Laboratory for Nanoscience and Nanotechnology, Nanchang University, Nanchang, China, *Surface Science with Metal Complexes*

50. 13.08.2012 – Colloquium, State Key Laboratory of Physical Chemistry of Solid Surfaces, Xiamen, China – *Surface Reactions of Coordination Compounds*

49. 12.08.2012 – Invited Lecture, Symposium on Synchrotron Radiation, Xiamen, China. *Surface Chemistry of Catalysis by Gold*

48. 10.08.2012 – Colloquium, University of Science and Technology of Hongkong, Hongkong, China. *Metal complexes at interfaces*

47. 10.07.2012 – Invited Lecture, Materialforschungstag Mittelhessen 2012, Marburg, Germany. *Chemistry at metal / organic interfaces*

46. 03.07.2012 – Invited Lecture, 7th International Conference on Porphyrins and Phthalocyanines (ICPP-7), Jeju Island, South Korea, July 1 - 6, 2012. *Novel aspects of surface coordination chemistry with multifunctional ligands*

45. 30.03.2012 – Colloquium, National Synchrotron Radiation Laboratory, Hefei, China, *Surface science meets coordination chemistry: Metal complexes at interfaces*

44. 22.03.2012 – Seminar, University of Science and Technology of China (USTC), *Applications of Synchrotron Radiation in Surface Science*

43. 11.01.2012 – Colloquium, Universität Graz, Austria, *Surface Chemistry of Complex Model Systems – Porphyrins, Polymers and Ionic Liquids.*

42. 04.11.2011 – Colloquium, Universität Bonn, *Porphyrins on Surfaces: Metalation, Network Formation and Surface Trans Effect.*

41. 06.10.2011 – Invited Lecture, 11th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-11), St. Petersburg, Russia, October 3-7, 40. 2011. *Surface-confined coordination chemistry with porphyrins*

40. 09.06.2011 – Colloquium, Technische Universität München, *Novel aspects of surface coordination chemistry with porphyrins*

39. 14.04.2011 – Colloquium, Universität Marburg, Germany, *Surface chemistry of porphyrins and other complex model systems*

38. 09.07.2010 – Invited Lecture, 6th International Conference on Porphyrins and Phthalocyanines (ICPP-6), July 5-9, 2010, New Mexico, USA. *Metalloporphyrin complexes at solid and liquid surfaces: Formation, redox chemistry and surface coordinative bond*

37. 16.06.2010 – Colloquium, Jagiellonian University Krakow, Poland, *Surface Chemistry of Catalysis by Gold – From Fundamental to Complex Model Systems*

36. 07.06.2010 – Colloquium, Ruhr-Universität Bochum, Germany, *Chemie an komplexen Oberflächen: Porphyrine, Polymere und ionische Flüssigkeiten* (Vorstellungsvortrag Nachfolge C. Wöll).

35. 14.05.2010 – Keynote Lecture (Fortschrittsbericht), 109. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Bielefeld, May 13-15, 2010. *Interfacial coordination chemistry with porphyrins*.

34. 06.05.2010 – Colloquium, Universität Marburg, Germany, *Reactions at complex surfaces*.

33. 14.04.2010 – Colloquium, Universität Leipzig, Germany, *Complex surfaces: From porphyrins to polymers and ionic liquids*

32. 11.12.2009 – Colloquium, Freie Universität Berlin, Germany, *Surface Chemistry of Porphyrins and other Complex Adsorbate Systems*.

31. 08.12.2009 – Habilitationsvortrag, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Oberflächenchemie von Porphyrinen und anderen komplexen Adsorbat-systemen*

30. 08.07.2009 – Colloquium, Institute of Bio- and Nanosystems, Forschungszentrum Jülich, Germany, *Surface Chemistry with Porphyrins*.

29. 02.07.2009 – Colloquium, Universität Bremen, Germany, *Catalysis by Gold – Fundamental and Complex Model Systems*

28. 27.04.2009 – Colloquium, Nanchang University, Institute of Advanced Studies, Nanchang, Jiangxi, China, *Adsorption and Surface Reactions of Redox-Active Planar Metal Complexes*

27. 24.04.2009 – Colloquium, National Laboratory for Physical Sciences at the Microscale, Department of Chemical Physics, University of Science and Technology of China, Hefei, Anhui, China, *Surface Chemistry of Gold Catalysis and Ionic Liquids*

26. 10.04.2009 – Colloquium, National Synchrotron Radiation Laboratory, Hefei, Anhui, China, *Surface Coordination Chemistry with Porphyrins*

25. 23.03.2009 – Keynote Lecture (Hauptvortrag), Annual Meeting of the German Physical Society (DPG), Dresden, March 22-27, 2009, *Surface-confined coordination chemistry with porphyrins and phthalocyanines.*

24. 26.02.2009 – Colloquium, University of St Andrews, UK, *Surface Functionalisation with Porphyrins and other Planar Metal Complexes.*
23. 23.02.2009 – Colloquium, University of Reading, UK, *Coordination Chemistry at Surfaces*.
22. 18.02.2009 – Colloquium, University of Liverpool, UK, *Surface Chemistry with Porphyrins*.
21. 13.02.2009 – Colloquium, Universität Ulm, *Surface-confined coordination chemistry with porphyrins and phthalocyanines*.
20. 28.11.2008 – Festkolloquium zum 65. Geburtstag von Prof. Dr. Klaus Christmann, Freie Universität Berlin, Germany, *Surface Chemistry of Metal Complexes and Ionic Liquids*
19. 14.11.2008 – Colloquium, Universität Bremen, Germany, *Metallkomplexe und Koordinationschemie an festen und flüssigen Oberflächen*
18. 26.08.2008 – Colloquium, University of Washington, Seattle, USA, *Coordination Compounds at Solid and Liquid Surfaces: Formation, Electronic Structure, and Reactivity*
17. 16.05.2008 – CERC-3 Young Chemists' Workshop "Surface Chemistry of Nanomaterials", Vienna, Austria, *Surface functionalization with metalloporphyrin and metallophthalocyanine complexes* (nominated by the Deutsche Forschungsgemeinschaft).
16. 21.04.2008 – DFG Rundgespräch „Grenzflächenprozesse bei Energiespeicherung und -umwandlung“ Harnack-Haus der Max-Planck-Gesellschaft, Berlin, *In-situ Untersuchungen von Elektrodenprozessen mittels Photoelektronenspektroskopie*
15. 06.12.2007 – Colloquium, Technische Universität München, Germany, *Coordination Chemistry at Solid and Liquid Surfaces.*
14. 28.06.2007 – Colloquium, Universität Bonn, Germany, *Aromatic hydrocarbons and metalloporphyrins on surfaces: What can we learn from adsorption calorimetry and photoelectron spectroscopy?*
13. 21.06.2007 – Colloquium, EMPA Dübendorf, Switzerland, *Functionalization of solid and liquid surfaces with coordination compounds.*
12. 20.06.2007 – Colloquium, ETH Zürich, Switzerland, *Aromatic molecules on surfaces studied with adsorption calorimetry and photoelectron spectroscopy.*
11. 08.06.2007 – Colloquium, Universität Erlangen-Nürnberg, Germany, *Adsorption und Reaktivität redoxaktiver Metalloporphyrine.*
10. 06.06.2007 – Colloquium, Technische Universität Ilmenau, Germany, *Functionalization of solid and liquid surfaces with coordination compounds.*
9. 28.03.2007 – Invited lecture, 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, *Surface-confined coordination chemistry with metalloporphyrins: In-situ metalation and competitive axial coordination*.
8. 06.02.2007 – Colloquium, Friedrich-Alexander-Universität Universität Erlangen-Nürnberg, Germany, *Energetics and Kinetics of Reactions on Simple and Complex Surfaces*.
7. 17.01.2007 – Colloquium, Freie Universität Berlin, Germany*, Coordination Chemistry at Solid and Liquid Surfaces*

6. 08.12.2006 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Surface-confined coordination chemistry: A photoelectron spectroscopy study of metalloporphyrins on Ag(111).*
5. 02.06.2006 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Coordination Chemistry of Adsorbed Metalloporphyrins Studied with Photoelectron Spectroscopy.*
4. 23.08.2005 – Colloquium, University of Washington, Seattle, USA, *Metal Complexes on Surfaces: Adsorption of Co(II)-Porphyrins on Ag(111)*
3. 26.01.2005 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Adsorption Microcalorimetry on Single Crystal Surfaces*
2. 02.11.2004 – Colloquium, Freie Universität Berlin, Germany, *Direkte Messungen von Adsorptionswärmen: Mikrokalorimetrie an Einkristallen*
1. 27.04.2004 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Oxidation of Carbon Monoxide over Gold*

G. Conference Contributions (underlined: presenting author, P = poster, L = lecture)

1. **J.M. Gottfried**, K. Schmidt, S.L.M. Schroeder, K. Christmann, *UHV-Modellstudien zum Mechanismus der CO-Oxidation an Gold*, XXXII. Jahrestreffen Deutscher Katalytiker 1999, V 7. (L)
2. **J.M. Gottfried**, K. Schmidt, S.L.M. Schroeder, K. Christmann, *Wechselwirkung von Sauerstoff mit der Au(110)-(1x2)-Oberfläche*, Verhandl. DPG (IV) 34, 877 (1999). (L)
3. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Molecularly and atomically adsorbed oxygen on Au(110)-(1×2)*, ECOSS 18, Vienna 1999. (P)
4. **J.M. Gottfried**, K. Schmidt, K. Christmann, S.L.M. Schroeder, *Interaction of CO and CO_2 with clean and oxygen-precovered Au(110)-(1×2)*, ECOSS 18, Vienna 1999. (P)
5. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Interaction of CO and CO_2 with clean and oxygen-precovered Au(110)-(1×2)*, BESSY-Jahrestreffen 1999. (P)
6. **J.M. Gottfried**, K. Schmidt, A. Heiland, S.L.M. Schroeder, K. Christmann, *Wechselwirkung von CO und CO_2 mit einer reinen und sauerstoffvorbelegten Au(110)-(1×2)-Oberfläche,* Verhandl. DPG (VI) 35 (2000) 1/694. (P)
7. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Spontane und elektronenstimulierte Adsorption von Sauerstoff auf Au(110)-(1×2)*, Verhandl. DPG (VI) 35 (2000) 1/685. (P)
8. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *Adsorption of Methanol and Water on Au(110)-(1×2): A Comparative Study*, ECOSS 19, Madrid 2000. (P)
9. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *Adsorption of Ethylene and Carbon Monoxide on Au(110)-(1×2)*, ECOSS 19, Madrid 2000. (P)
10. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann**,** *Adsorption von Methanol und Wasser auf Au(110)-(1×2)*, Verhandl. DPG (VI) 36 (2001) 1/358. (L)
11. **J.M. Gottfried**, S.L.M. Schroeder, K. Christmann, *Chemisorption von Sauerstoff auf einer Goldoberfläche*, 101. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Potsdam 2002. (L)
12. **J.M. Gottfried**, S.L.M. Schroeder, K. Christmann, *Oxidation einer Au(110)-(1×2)-Oberfläche*, Verhandl. DPG (VI) 37 (2002) 1/301. (L)
13. K.J. Schmidt, **J.M. Gottfried**, K. Christmann, *Adsorption of Krypton and Xenon on Au(110)-(1×2)*, Verhandl. DPG (VI) 38 (2003) 5/386. (L)
14. **J.M. Gottfried**, K.J. Schmidt, K. Christmann, *Adsorption of Carbon Monoxide on Au(110)-(1×2)*, Verhandl. DPG (VI) 38 (2003) 5/411. (L)
15. **J.M. Gottfried**, K.J. Schmidt, K. Christmann, *Adsorption und Reaktion von Kohlenmonoxid auf einer Goldoberfläche*, 102. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Kiel 2003. (P)
16. **J.M. Gottfried** and K. Christmann, *CO Oxidation over Gold*, ECOSS 22, Prague 2003. (P)
17. P. Schulz, **J.M. Gottfried**, K. Christmann, *Nitriding a Au(110)-(1×2) Surface*, Verhandl. DPG (VI) 39 (2004). (L)
18. **J.M. Gottfried** and K. Christmann, *Particle Size Effects in TPD: Adsorption of CO_2 on Clean and Oxygen-Precovered Au(110)-(1×2)*, Surface Canada 2004, Vancouver/BC, Canada. (P)

19. P. Schulz, **J.M. Gottfried**, K. Christmann, *Chemisorption and Physisorption of Nitrogen on Gold*, Surface Canada 2004, Vancouver/BC, Canada. (P)

20. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *CO Oxidation over Gold*, Surface Canada 2004, Vancouver/BC, Canada. (P)

21. E.K. Vestergaard, **J.M.Gottfried**, P. Bera, C.T. Campbell, *Adsorption of aromatic hydrocarbons on Pt(111) studied with single crystal adsorption calorimetry*, AVS 51st International Symposium 2004, Anaheim, CA, USA. (P)

22. **J.M. Gottfried** and K. Christmann, *Particle Size Effects in TPD: Adsorption of CO_2 on Clean and Oxygen-Precovered Au(110)-(1x2)*, Verhandl. DPG (VI) 40 (2005) 466. (P)

23. **J.M. Gottfried**, H. Ihm, H.M. Ajo, P. Bera, E.K. Vestergaard, C.T. Campbell, *Calorimetric Measurements of the Heats of Adsorption of Aromatic Hydrocarbons on Pt(111)*, Verhandl. DPG (VI) 40 (2005) 492. (L)

24. P. Bera, **J.M. Gottfried**, E. K. Vestergaard, Charles T. Campbell, *Calorimetric measurements of the heat of adsorption of aromatic hydrocarbons and cyclohexene on Pt(111)*, North American Catalysis Society Meeting, Philadelphia 2005. (L)

25. F. Lovis, **J.M. Gottfried**, R. Denecke, B. Tränkenschuh, C. Papp, P. Schulz, K. Christmann and H.-P. Steinrück, *Interaction of nitrogen with a gold(110)-(1x2)-surface*, ECOSS 23, Berlin, September 4-9, 2005. (P)

26. K. Flechtner, T. Lukasczyk, F. Maier, **J.M. Gottfried**, and H.-P. Steinrück, *Structure and Reactivity of Co(II)-Porphyrins on a Ag(111) Surface*, ECOSS 23, Berlin, September 4-9, 2005. (P)

27. K. Flechtner, T. Lukasczyk, F. Maier, L. Merte, **J.M. Gottfried**, and H.-P. Steinrück, T. Shubina, T. Clark, *Structure and Reactivity of Co(II)-Porphyrins on a Ag(111) Surface*, Verhandl. DPG (VI) 41, 1/ 476 (2006) (P)

28. T. Lukasczyk, K. Flechtner, K. Comanici, H. Marbach, F. Maier, **J.M. Gottfried** and H.-P. Steinrück, *A Metal Surface as a Complex Ligand: Adsorption of Co(II)-Porphyrins on Ag(111)*, Verhandl. DPG (VI) 41, 1/491 (2006) (L)

29. K. Comanici, H. Marbach, F. Maier, F. Buchner, K. Flechtner, T. Lukasczyk, **J.M. Gottfried** and H.-P. Steinrück, *Observation of Distinct Topographic/Electronic Features in Cobalt Porphyrin Layers on Silver (111),* DPG (VI) 41, 1/ 477 (2006) (P)

30. **J.M. Gottfried**, A. Kretschmann, T. Lukasczyk, K. Flechtner, T. Shubina, T. Clark, H.-P. Steinrück, *A Metal Surface as a Complex Ligand: Adsorption and Reaction of Metallo-Porphyrins on Ag(111)*, 105. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Erlangen 2006. (L)

31. K. Comanici, H. Marbach, F. Maier, F. Buchner, K. Flechtner, T. Lukasczyk, **J.M. Gottfried** and H.-P. Steinrück, *Distinct Topographic and Electronic Properties of Cobalt Porphyrin Layers on a Silver (111) surface,* 105. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Erlangen 2006. (P)

32. F. Maier, J. Rossa, **J.M. Gottfried**, P. Schulz, P. Wasserscheid, and H.-P. Steinrück, *Molecular ordering and altered composition at an ionic liquid solution surface*, 92nd Bunsen Colloquium, TU Clausthal, March 23-24, 2006. (L)

33. F. Maier, J. Rossa, **J.M. Gottfried**, P. Schulz, P. Wasserscheid, and H.-P. Steinrück, *Molecular ordering and altered composition at an ionic liquid solution surface*, Renne-Erlangen Symposium, Renne/France, June 20-23, 2006. (L)

34. **J.M. Gottfried**, K. Flechtner, A. Kretschmann, T. Shubina, T. Clark, H.-P. Steinrück, *Complex Chemistry on Surfaces: Adsorption and Reaction of Metalloporphyrins on Ag(111),* ECOSS 24, Paris, September 4-8, 2006. (P)

35. **J.M. Gottfried**, K. Flechtner, A. Kretschmann, and H.-P. Steinrück, *Surface-Confined Coordination Chemistry: A Photoelectron Spectroscopy Study of Metalloporphyrins on Ag(111),* Specialized Colloquium AMPERE and Alexander von Humboldt Workshop: Advanced Materials as Studied by Spectroscopic and Diffraction Techniques, September 16 - 21, 2006, Vilnius, Lithuania. (L)

36. F. Maier, **J.M. Gottfried**, J. Rossa, D. Gerhard, P.S. Schulz, P. Wasserscheid, and H.-P. Steinrück*, Surface Enrichment and Depletion Effects of Ions Dissolved in an Ionic Liquid. An X-ray Photoelectron Spectroscopy (XPS) Study,* Specialized Colloquium AMPERE and Alexander von Humboldt Workshop: Advanced Materials as Studied by Spectroscopic and Diffraction Techniques, September 16 - 21, 2006, Vilnius, Lithuania (P).

37. K. Flechtner, A. Kretschmann, , **J.M. Gottfried**, and H.-P. Steinrück, *Axial Coordination of NO and NH_3 on Metalloporphyrin Monolayers*, 2nd Symposium on Redox-Active Metal Complexes – Control of Reactivity via Molecular Architecture, Erlangen, Germany, October 4-7, 2006 (P).

38. **J.M. Gottfried**, K. Flechtner, A. Kretschmann, F. Maier, S. Schöffel, L. Bradshaw, H.-P. Steinrück,T. Shubina, T. Clark, *Coordination Chemistry on Surfaces: Adsorption and Reaction of Metalloporphyrins on Ag(111),* 2nd Symposium on Redox-Active Metal Complexes – Control of Reactivity via Molecular Architecture, Erlangen, Germany, October 4-7, 2006 (P).

39. S. Schöffel, K. Flechtner, L. Bradshaw, **J.M. Gottfried**, and H.-P. Steinrück, *In-situ Synthesis and Reactivity of Adsorbed Fe(II)-Porphyrins,* 2nd Symposium on Redox-Active Metal Complexes – Control of Reactivity via Molecular Architecture, Erlangen, Germany, October 4-7, 2006 (P).

40. K. Comanici, H. Marbach, F. Maier, F. Buchner, K. Flechtner, T. Lukasczyk, **J.M. Gottfried** and H.-P. Steinrück, Identification of *Distinct Topographic/Electronic Properties of Co-Porphyrin Layers on a Silver (111) Surface,* 2nd Symposium on Redox-Active Metal Complexes – Control of Reactivity via Molecular Architecture, Erlangen, Germany, October 4-7, 2006 (P).

41. **J.M. Gottfried**, *Complex Surfaces Studied with Photoelectron Spectroscopy*, 1st Workshop of COST Action D 41, Inorganic Oxides: Surfaces and Interfaces, Vienna, Austria, November 2-4, 2006 (P).

42. **J.M. Gottfried**, F. Maier, J. Rossa, D. Gerhard, P.S. Schulz, P. Wasserscheid, and H.-P. Steinrück, *Surface enrichment and depletion effects of the ions $[Pt(NH_3)_4]^{2+}$ and Cl^- in the ionic liquid $[EMIM][EtOSO_3]$*, 40. Jahrestreffen Deutscher Katalytiker, March 14-16, 2007. (L)

43. **J.M. Gottfried,** *Surface-confined coordination chemistry with metalloporphyrins: In-situ metalation and competitive axial coordination***,** 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007 (invited lecture).

44. **J.M. Gottfried**, K. Flechtner, Y. Bai, A. Kretschmann, S. Schöffel and H.-P. Steinrück, *Surface functionalization with metalloporphyrins*, 106. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Graz 2007. (L)

45. H.-P. Steinrück, M. Killian, **J.M. Gottfried**, F. Maier, N. Müller and P. Wasserscheid, *Surface studies of simple and complex ionic liquid systems*, 106. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Graz 2007. (P)

46. Y. Bai, S. Schöffel, K. Flechtner, L. Bradshaw, H.-P. Steinrück and **J.M. Gottfried***, In-situ synthesis and reactivity of adsorbed iron(II) and cobalt(II) tetraphenylporphyrins*, Verhandl. DPG (2007) O 44.5. (P)

47. K. Flechtner, Y. Bai, A. Kretschmann, S. Schöffel, M.-M. Walz, L. Bradshaw, **J.M. Gottfried** and H.-P. Steinrück, *Surface-confined coordination chemistry with metalloporphyrins: In-situ metalation and axial coordination*, Verhandl. DPG (2007) O 26.3. (L)

48. F. Buchner, V. Schwald, K. Comanici, K. Flechtner, S. Schöffel, T. Lukasczyk, **J.M. Gottfried**, H. Marbach, and H.-P. Steinrück, *Microscopic Identification of Different Porphyrin Species in Composite Layers,* Verhandl. DPG (2007) O 16.5. (L)

49. M. Killian, C. Potzner, T. Cremer, **J.M. Gottfried**, N. Müller, D. Gerhard, P. Wasserscheid, F. Maier, and H.-P. Steinrück, *Surface studies of simple and complex ionic liquid systems using XPS*, Verhandl. DPG (2007), O 57.10. (L)

50. K. Dumbuya, **J.M. Gottfried,** and H.-P. Steinrück, *Synthesis and characterisation of titanium oxide nanoparticles on Au substrates*, COST D-41 Workgroup 3 Meeting 2007, "Metal Clusters and Nanoparticles on Oxide Surfaces", Erlangen, April 12-13, 2007. (L)

51. K. Dumbuya, **J.M. Gottfried**, and H.-P. Steinrück, *Electronic structure and reactivity of inverse TiO_2/Au model catalysts: In-situ photoelectron spectroscopy under CO oxidation reaction conditions*, COST D-41 Workgroup 3 Meeting 2007, "Metal Clusters and Nanoparticles on Oxide Surfaces", Erlangen, April 12-13, 2007. (P)

52. H.-P. Steinrück, M. Killian, **J.M. Gottfried**, F. Maier, N. Müller and P. Wasserscheid, *Surface studies of simple and complex ionic liquid systems*, DFG SPP 1191 - Ionic Liquids, 1st Workshop, June 30 – July 1, 2007, Bamberg, Germany. (P)

53. **J.M. Gottfried**, K. Flechtner, Y. Bai and H.-P. Steinrück, *Porphyrin chemistry in two dimensions: In-situ metalation and axial coordination*, International Conference on Surface Science (ICSS-13), Stockholm, July 2-6, 2007 (L).

54. **J.M. Gottfried**, H. Marbach, K. Flechtner, A. Kretschmann, Y. Bai, F. Buchner, N. Jux, T.E. Shubina, T. Clark, H.-P. Steinrück, *Molecular Surface Science with Porphyrins*, International Bunsen Discussion Meeting, Heidelberg, June 29-30, 2007. (P)

55. F. Maier, M. Killian, T. Cremer, C. Potzner, **J.M. Gottfried**, N. Müller, P.S. Schulz, P. Wasserscheid, H.-P. Steinrück, *Surface activity in simple and complex ionic liquid systems - an X-ray photoelectron spectroscopy study*, EURMAT 2007 Nürnberg (L).

56. H. Marbach, **J.M. Gottfried**, K. Flechtner, A. Kretschmann, Y. Bai, F. Buchner, N. Jux, T.E. Shubina, T. Clark, H.-P. Steinrück, *On the formation of ordered porphyrin layers on metals by vapour deposition or in-situ direct metalation*, 9th European Conference on Surface Crystallography and Dynamics, September 2-5, 2007, Vienna University of Technology, Vienna, Austria. (L).

57. K. Dumbuya, **J.M. Gottfried**, H.-P. Steinrück, *Inverse titania-gold model catalysts studied with in-situ photoelectron spectroscopy,* COST Action D41 Inorganic Oxides: Surfaces and Interfaces, Annual Meeting, Harnack-Haus, Berlin, Germany, October 21-23, 2007. (P/L)

58. T. Cremer, M. Killian, C. Kolbeck, **J.M. Gottfried**, F. Maier, H.-P. Steinrück, N. Paape, P.S. Schulz, and P. Wasserscheid, *Surface Science studies of simple and complex ionic liquid systems*, DFG SPP 1191 - Ionic Liquids, Annual Meeting, 12.12-14.12.2007, 2007, Bamberg, Germany. (P)

59. N. Paape, P.S. Schulz, P. Wasserscheid, F. Maier, **J.M. Gottfried**, H.-P. Steinrück, *Solubility of Inorganic Salts in Ultra-Pure Ionic Liquids for XPS Studies*, DFG SPP 1191 - Ionic Liquids, Annual Meeting, 12.12-14.12.2007, 2007, Bamberg, Germany. (P)

60. **J. M. Gottfried**, K. Flechtner, Y. Bai, A. Kretschmann, M.-M. Walz, A. Bayer, H.-P. Steinrück, *Formation, electronic structure, and reactivity of adsorbed metalloporphyrin complexes*, Verhandl. DPG (2008) O 64.4 (L).

61. F. Bebensee, W. Lew, J. F. Zhu, J. H. Baricuatro, H.-P. Steinrück, **J. M. Gottfried**, C. T. Campbell, *The Adsorption of Calcium on Regioregular Poly(3-Hexylthiophene) Studied by Microcalorimetry and X-Ray Photoemission Spectroscopy*, Verhandl. DPG (2008) O 76.1 (L).

62. W. Kudernatsch, K. Dumbuya, **J.M. Gottfried**, H.-P. Steinrück, K. Christmann, *Interaction of CO, CO_2, O_2 and H_2O with Au/Rutile TiO_2(011)-(2x1)/Re(10-10) model catalysts*, Verhandl. DPG (2008) O 13.9 (L).

63. K. Dumbuya, T. Lukasczyk, M. Schirmer, H. Marbach, **J.M. Gottfried**, H.-P. Steinrück, *Inverse Au/TiO2 model catalysts studied with in-situ high-pressure XPS*, Verhandl. DPG (2008) O 55.20 (L).

64. T. Cremer, M. Killian, C. Kolbeck, **J.M. Gottfried**, P. Wasserscheid, F. Maier, H.-P. Steinrück, *Preparation and Surface Characterisation of Thermally Deposited Ultrathin Ionic Liquid Films*, Verhandl. DPG (2008) O 76.9 (L).

65. K. Dumbuya, S. Gopalakrishnan, W. Schwieger, **J.M. Gottfried**, H.-P. Steinrück, *The chemical state of iron during N_2O decomposition over iron modified zeolites ZSM-5. A high-pressure XPS study*, Verhandl. DPG (2008) O 55.21 (L).

66. Y. Bai, F. Buchner, M. Wendahl, R. Staehle, I. Kellner, A. Bayer, H. Marbach, **J.M. Gottfried**, H.-P. Steinrück, *Direct metalation of phthalocyanine and tetraphenylporphyrin on Ag(111) with co-adsorbed iron atoms*, Verhandl. DPG (2008) O 55.52 (P).

67. F. Buchner, K. Comanici, K. Flechtner, T. Lukasczyk, **J.M. Gottfried**, H. Marbach, H.-P. Steinrück, *Understanding the Voltage-Dependent Contrast in STM of Co-Tetraphenylporphyrin Molecules on Ag(111)*, Verhandl. DPG (2008) O 64.5 (L).

68. H.-P. Steinrück, **J.M. Gottfried**, *In-situ Untersuchungen von Elektrodenprozessen mittels Photoelektronenspektroskopie*, DFG Rundgespräch „Grenzflächenprozesse bei Energiespeicherung und -umwandlung“ Harnack-Haus der Max-Planck-Gesellschaft, Berlin, 21. – 22. April 2008 (L).

69. H. Marbach, F. Buchner, K. Comanici, K. Flechtner, T. Lukasczyk, K.-G. Warnick, T. Wölfle, W. Hieringer, A. Görling, **J.M. Gottfried**, H.-P. Steinrück, *Appearance and Identification of Porphyrin Derivates on Ag(111) in Scanning Tunneling Microscopy*, 107. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Saarbrücken 2008. (P) – ***Hot Topic Poster Award***

70. T. Cremer, M. Killian, C. Kolbeck, **J.M. Gottfried**, F. Maier, H.-P. Steinrück, P. Wasserscheid, *Preparation and Surface Characterisation of Thermally Deposited Ultrathin Ionic Liquid Films*, 107. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Saarbrücken 2008. (P)

71. **J.M. Gottfried**, K. Flechtner, Y. Bai, W. Hieringer, A. Görling, H.-P. Steinrück, *Adsorbed metalloporphyrin and metallophthalocyanine complexes: Formation, electronic structure, and reactivity,* 107. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Saarbrücken 2008. (L)

72. Y. Bai, F. Buchner, M.T. Wendahl, R. Staehle, I. Kellner, A. Bayer, H. Marbach, **J.M. Gottfried**, H.-P. Steinrück, *Metalation of tetraphenylporphyrin and phthalocyanine monolayers on a silver surface with vapour-deposited iron atoms*, 107. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Saarbrücken 2008. (P)

73. H.-P. Steinrück, **J. M. Gottfried**, H. Marbach, F. Buchner, K. Comanici, K. Flechtner, Y. Bai, A. Kretschmann, N. Jux, T. E. Shubina, T. Clark, *Surface Chemistry with Porphyrins*, 21st Symposium on Surface Science 2008, St. Christoph, Austria, March 2 - 8, 2008. (L)

74. **J. M. Gottfried**, *Surface functionalization with metalloporphyrin and metallophthalocyanine complexes: Formation, electronic structure, and reactivity*, CERC3 Young Chemists' Workshop „Surface Chemistry of Nanomaterials“, Vienna, Austria, May 15-16, 2008.

75. Y. Bai, K. Flechtner, F. Buchner, H. Marbach, H.-P. Steinrück, and **J. M. Gottfried**, *Surface chemistry with porphyrins and phthalocyanines: Direct metalation, axial coordination and surface interaction*, 5th International Conference on Porphyrins and Phthalocyanines (ICPP-5), Moscow, July 6-11, 2008. (L)

76. **J. M. Gottfried**, Y. Bai, K. Flechtner, W. Hieringer, A. Görling, T. E. Shubina, T. Clark, H.-P. Steinrück, *Reactive monolayers of metalloporphyrins and metallophthalocyanines: Formation, electronic structure, and coordination of small molecules*, ECOSS 25, Liverpool, July 27-August 1, 2008. (L)

77. Y. Bai, K. Flechtner, F. Buchner, H. Marbach, W. Hieringer, A. Görling, T. E. Shubina, T. Clark, H.-P. Steinrück, and **J.M. Gottfried**, *Surface chemistry with metalloporphyrins and metallophthalocyanines: Formation, structure, and reactivity*, 236th ACS National Meeting & Exposition, August 17-21, 2008, Philadelphia, Pennsylvania, USA. (L)

78. Y. Bai, K. Flechtner, F. Buchner, E. Zillner, I. Kellner, H.-P. Steinrück, H. Marbach, and **J.M. Gottfried**, *In-situ synthesis of adsorbed metalloporphyrins on a Ag (111) surface*, 6th German-Brasilian Workshop on Applied Surface Science, September 14-19, 2008, Titisee, Germany. (P)

79. F. Bebensee, J.-F. Zhu, J. Baricuatro, J. Farmer, W. Lew, H.-P. Steinrück, **J.M. Gottfried**, and C. T. Campbell, *The Interface Formation between Calcium and Poly(3-hexylthiophene) Investigated with Adsorption Microcalorimetry, High-Resolution XPS, and ISS,* AVS 55th International Symposium, October 19-24, 2008, Boston, MA (L).

80. A. Wittstock, B. Neumann, A. Schaefer, K. Dumbuya, V. Zielasek, H.-P. Steinrück, **J.M. Gottfried**, J. Biener, A. Hamza, M. Bäumer, *Catalysis by nanoporous Au – a truly unsupported catalyst?* 42. Jahrestreffen Deutscher Katalytiker, March 11-13, 2009. (L)

81. Y. Bai, F. Buchner, M. Schmid, I. Kellner, F. Vollnhals, H. Marbach, H.-P. Steinrück, **J.M. Gottfried**, *Interaction between coordinated metal ions and a metal substrate: Differently substituted cobalt porphyrins on Ag(111)*, Verhandl. DPG (2009) O 52.6. (L)

82. K. Dumbuya, A. Wittstock, B. Neumann, A. Schaefer, M. M. Biener, C. Kübel, V. Zielasek, J. Biener, A. Hamza, M. Bäumer, **J.M. Gottfried** and H.-P. Steinrück, *Nanoporous Au: XPS and In-situ XPS Investigation*, Verhandl. DPG (2009) O 42.85. (L)

83. F. Bebensee, J. Hess Baricuatro, J.F. Zhu, W. Lew, H.-P. Steinrück, **J.M. Gottfried**, C. T. *Campbell Formation of a Polymer-Metal Interface: Deposition of Ca on Poly(3-hexylthiophene) Films*, Verhandl. DPG (2009) DS 23.5. (L)

84. F. Bebensee, J. Hess Baricuatro, J.F. Zhu, J. Sharp, W. Lew, H.-P. Steinrück, **J.M. Gottfried**, C.T. Campbell, *Reactive Sites for the Deposition of Calcium on Semiconducting Polymers*, Verhandl. DPG (2009) O 42.111. (P)

85. F. Vollnhals, F. Buchner, I. Kellner, Y. Bai, M. Schmid, **J.M. Gottfried**, H.-P. Steinrück, H. Marbach, *Comparison of Different Porphyrin Derivates in Scanning Tunneling Microscopy*, Verhandl. DPG (2009) O 42.50. (L)

86. **J.M. Gottfried**, *Surface-confined coordination chemistry with porphyrins and phthalocyanines*, Verhandl. DPG (2009) O 9.1. (Keynote lecture / Hauptvortrag)

87. Y. Bai, M. Schmid, F. Buchner, H. Marbach, W. Hieringer, A. Görling, H.-P. Steinrück, **J.M. Gottfried**, *Surface-Confined Coordination Chemistry with Planar Metal Complexes*, 108. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Köln, May 21-23, 2009. (L)

88. F. Neatu, Z. Li, R. Richards, P.Y. Toullec, V. Michelet, K. Dumbuya, **J.M. Gottfried**, H.-P. Steinrück, V.I. Parvulescu, *Effective gold heterogeneous catalysts for cycloisomerization of γ-acetylenic carboxylic acids*, EuropaCat IX, Salamanca/Spain August 30 – September 4, 2009 (L).

89. K. Dumbuya, A. Wittstock, M. Bäumer, **J.M. Gottfried**, H.-P. Steinrück, *The search for the active site in CO oxidation on gold catalysts: In-situ XPS investigation of Au/TiO_2, TiO_2/Au and nanoporous Au,* ECOSS 26, Parma/Italy, August 30 - September 4, 2009. (L)

90. J.C. Sharp, J.H. Baricuatro, F. Bebensee, H.-P. Steinrück, **J.M. Gottfried**, C.T. Campbell, *The Ca / MEH-CN-PPV interface: Ca adsorption calorimetry, LEIS and XPS*, AVS 56th Meeting and Exhibition, San Jose, CA, November 8-13, 2009. (L)

91. O. Lytken, W. Lew, J.J.W. Harris, E.K. Vestergaard, **J.M. Gottfried**, C.T. Campbell, *Microcalorimetry of Dehydrogenation Intermediates: Cyclohexene and Cyclohexenyl on Pt(111)*, Bunsen Colloquium "Microscopic Views on Interface Phenomena – From Surface Science to Fuell Cell Catalysis, Reisenburg Castle, December 3-5, 2009. (P)

92. K. Dumbuya, M. Hank, O. Lytken, **J.M. Gottfried**, H.-P. Steinrück, *XPS and In-situ XPS Investigation of Au/TiO_2 and Inverse TiO_2/Au Model Catalysts*, 43. Jahrestreffen Deutscher Katalytiker, Weimar, March 10-12, 2010. (P)

93. A. Ramakrishnan, J. Ofili, K. Dumbuya, H.-P. Steinrück, **J.M. Gottfried**, W. Schwieger, *Synthesis and characterization of highly dispersed and stabilised Pd nanoparticles within a silica matrix*, 43. Jahrestreffen Deutscher Katalytiker, Weimar, March 10-12, 2010. (P)

94. M. Sobota, M. Laurin, M. Happel, N. Paape, M. Schmid, J.M. Gottfried, F. Maier, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Towards ionic liquid based model catalysts: Ultrathin films of the ionic liquid [BMIM][NTf_2] strongly modify the surface properties of Pd nanoparticles on Al_2O_3/NiAl(110)*, 43. Jahrestreffen Deutscher Katalytiker, Weimar, March 10-12, 2010. (P)

95. O. Lytken, W. Lew, J.J.W. Harris, E.K. Vestergaard, **J.M. Gottfried**, C.T. Campbell, *Cyclohexene and its Dehydrogenation Intermediates on a Platinum Model Catalyst*, 43. Jahrestreffen Deutscher Katalytiker, Weimar, March 10-12, 2010. (L)

96. M. Hank, K. Dumbuya, O. Lytken, P. Bobrowski, B. Arnold, **J.M. Gottfried**, H.P. Steinrück, *In-situ XPS and reactivity studies on different Au/TiO_2 catalyst systems*, Verhandl. DPG (2010) O 41.50.

97. F. Bebensee, J.F. Zhu, J. H. Baricuatro, J. A. Farmer, H.-P. Steinrück, C. T. Campbell, **J.M. Gottfried**, *Effects of Electron Irradiation on the Composition, Energetics and Structure of the Calcium/Poly(3-Hexylthiophene) (P3HT) Interface*, Verhandl. DPG (2010) O 41.32.

98. H.-J. Drescher, F. Bebensee, O. Lytken, H.-P. Steinrück, **J.M. Gottfried**, *A Nanocalorimeter for Adsorption Studies of Organic Molecules*, Verhandl. DPG (2010) O 59.75 (P).

99. O. Lytken, W. Lew, J.J.W. Harris, E.K. Vestergaard, **J.M. Gottfried**, C.T. Campbell, *Nanojoule Calorimetry of Surface Reactions: Cyclohexene on Pt(111)*, Verhandl. DPG (2010) O 56.10 (L).

100. M. Schmid, Y. Bai, M. Sekita, Th. Bischof, H.-P. Steinrück, **J.M. Gottfried,** *Thin films and monolayers of metalloporphyrines and phthalocyanines: Examination of the reactive sites,* Verhandl. DPG (2010) O 85.1 (L).

101. Y. Bai, M. Schmid, M. Sekita, Th. Bischof, H.-P. Steinrück, **J.M. Gottfried**, *Cobalt porphyrin and phthalocyanine complexes on Ag(111) and Au(111): Interfacial coordination interactions*, Verhandl. DPG (2010) O 59.83 (P).

102. M.C. Crowe, W. Lew, J. F. Zhu, F. Bebensee, O. Lytken, J.H. Baricuatro, J.A. Farmer, H.-P. Steinrück, **J. M. Gottfried**, E. Karp, C. Schoenbaum, C.T. Campbell, *Adsorption Microcalorimetry of Well-defined Surface Species: Implications for Theoretical and Experimental Research in Fuel Cells, Electrocatalysis, and Photovoltaics*, PITTCON 2010, Orlando, Florida, Febr 28 – March 5, 2010.

103. H.-J. Drescher, F. Bebensee, O. Lytken, H.-P. Steinrück, **J.M. Gottfried**, *A Nanocalorimeter for Adsorption Studies of Organic Molecules*, 109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Universität Bielefeld, May 13-15, 2010. (P)

104. M. Schmid, Y. Bai, M. Sekita, Th. Bischof, H.-P. Steinrück, **J.M. Gottfried**, *Porphyrin and phthalocyanine monolayers: Monitoring interfacial interactions with photoelectron spectroscopy*, 109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Universität Bielefeld, May 13-15, 2010. (P)

105. F. Bebensee, J.F. Zhu, J. H. Baricuatro, J. A. Farmer, H.-P. Steinrück, C. T. Campbell, **J.M. Gottfried**, *Composition, Energetics and Structure of Metal-Polymer Interfaces*, 109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Universität Bielefeld, May 13-15, 2010. (P)

106. **J.M. Gottfried,** *Interfacial coordination chemistry with porphyrins***,** 109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Universität Bielefeld, May 13-15, 2010. (invited keynote lecture)

107. O. Lytken, W. Lew, J.J.W. Harris, E.K. Vestergaard, **J.M. Gottfried**, C.T. Campbell, *Adsorption and Reaction of Cyclohexene on Pt(111) Studied by Low-Temperature Microcalorimetry*, 109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Universität Bielefeld, May 13-15, 2010. (L)

108. **J.M. Gottfried**, *Metalloporphyrin complexes at solid and liquid surfaces: Formation, redox chemistry and surface coordinative bond,* International Conference on Porphyrins and Phthalocyanines (ICPP-6), July 5-9, New Mexico, USA. (co-authors: M. Schmid, Y. Bai, H.-P. Steinrück, R. Lippert, N. Jux, W. Hieringer, A. Görling, A. Dees, I. Ivanovic-Burmazovic, M. Chen, J.F. Zhu) (Invited lecture).

109. C.T. Campbell, J. A. Farmer, J. Sharp, **J.M. Gottfried**, F. Bebensee, J.F. Zhu, *The Energetics and Structure of Metal / Semiconducting Polymer Interfaces*, ACS Fall 2010 National Meeting & Exposition, Boston, USA, August 22 – 26, 2010 (L)

110. Y. Bai, F. Bebensee, H.-P. Steinrück, I. Kröger, C. Stadler, C. Kumpf, J. Zegenhagen, W. Hieringer, **J.M. Gottfried**, *Cobalt porphyrins on Ag(111) – A normal-incidence X-ray standing waves (NI-XSW) and density functional theory (DFT) study*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (L)

111. H.-J. Drescher, O. Lytken, F. Bebensee, H.-P. Steinrück, **J.M. Gottfried**, *Surface Nanojoule Calorimetry: Direct Measurement of Adsorption Enthalpies at Metal/Organic Interfaces*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (P)

112. M. Schmid, J. Xiao, Y. Bai, H.-P. Steinrück, **J.M. Gottfried**, *Surface coordination chemistry with phthalocyanines and porphyrins at solid and liquid surfaces*, 27th

European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (L)

113. O. Lytken, H.-J. Drescher, F. Bebensee, H.-P. Steinrück, **J.M. Gottfried**, *Microcalorimetric Studies of Organic Semiconductor/Metal Interfaces*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (P)

114. W. Hieringer, K.-G. Warnick, T. Wölfle, A. Görling, **J.M. Gottfried**, H. Marbach, H.-P. Steinrück, *Theoretical analysis and interpretation of STM, XPS, and NEXAFS data and the bonding mechanism of metalloporphyrins on metal surfaces by first-principles calculations,* 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (L)

115. M. Sobota, M. Laurin, M. Happel, N. Paape, M. Amende, M. Schmid, **J.M. Gottfried**, F. Maier, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Towards Ionic Liquid Based Model Catalysts: Ultrathin Films of Imidazolium Based Ionic Liquids Strongly Modify the Surface Properties of Pd Nanoparticles on Al_2O_3/NiAl(110)*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (L)

116. Ch. Schmitz, M. Schmid, J. Ikonomov, S. Gärtner, H.-P. Steinrück, **J.M. Gottfried**, M. Sokolowski, *Formation of One- and Two-Dimensional Polyamide Films by Vapor Deposition Polymerization on the Ag(111) Surface*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, August 29 – September 03, 2010. (P)

117. F. Buchner, K. Seufert, W. Auwärter, D. Heim, J.V. Barth, K. Flechtner, **J.M. Gottfried**, H.-P. Steinrück, H. Marbach, *NO Induced Reorganization of Porphyrin Arrays*, 27th European Conference on Surface Science (ECOSS 27), Groningen, NL, Aug. 29 – Sept. 03, 2010. (L)

118. F. Bebensee, M. Schmid, H.-P. Steinrück, **J.M. Gottfried**, *Low-Temperature Deposition of Ca onto P3HT: A Route to Sharper Interfaces*, 18th International Vacuum Congress (IVC-18), Bejing, China, August 23-27, 2010. (L)

119. M. Chen, X.F. Feng, L. Zhang, H.X. Ju, Q. Xu, **J.M. Gottfried**, J.F. Zhu, *Direct Synthesis of Nickel(II) Tetraphenylporphyrin and its Interaction with a Au(111) Surface*, 18th International Vacuum Congress (IVC-18), Bejing, China, August 23-27, 2010. (L)

120. M. Laurin, M. Sobota, M. Schmid, M. Happel, M. Amende, F. Maier, **J.M. Gottfried**, N. Paape, M. Fekete, I. Nikiforidis, W. Hieringer, X. Wang, K. Meyer, A. Görling, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Ionic liquid based model catalysts*, 3rd EuCheMS Chemistry Congress, August 29 – September 02, 2010, Nürnberg, Germany. (L)

121. M. Sobota, M. Laurin, M. Happel, M. Amende, N. Paape, M. Schmid, **J.M. Gottfried**, F. Maier, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Towards Model Systems for Supported Catalysts with Ionic Liquid Layers (SCILL): Site-Specific Interactions of [BMIM][TfN2] with Pt and Pd Nanoparticles*, 44. Jahrestreffen Deutscher Katalytiker, Weimar, March 16-18, 2011. (L)

122. K. Dumbuya, M. Hank, O. Lytken, L. Ringel, R. Lazzari, J. Jupille, **J.M. Gottfried**, H.-P. Steinrück, *Gold-based model catalysts studied with in-situ photoelectron spectroscopy*, 44. Jahrestreffen Deutscher Katalytiker, Weimar, March 16-18, 2011. (P)

123. S. López-Orozco, K. Dumbuya, **J.M. Gottfried**, H.-P. Steinrück, W. Schwieger, *N_2O decomposition over iron containing zeolites: Activity, XPS and in-situ XPS study*, 44. Jahrestreffen Deutscher Katalytiker, Weimar, March 16-18, 2011. (P)

124. M. Chen, M. Schmid, J. Xiao, H.-P. Steinrück, **J. M. Gottfried**, *Surface-confined reaction of porphyrins with Cu atoms: An X-ray photoelectron spectroscopy study*, Verhandl. DPG (2011) (P).

125. M. Schmid, C. H. Schmitz, J. Ikonomov, H.-P. Steinrück, **J. M. Gottfried**, M. Sokolowski, *Direct formation of a polyamide on Ag(111): Joint XPS and STM studies*, Verhandl. DPG (2011) (L).

126. H.-J. Drescher, O. Lytken, F. Bebensee, H.-P. Steinrück, **J. M. Gottfried**, *Nanojoule adsorption calorimetry (NAC) and its application to metal/organic interfaces*, Verhandl. DPG (2011) (L).

127. J. Xiao, M. Schmid, M. Chen, Z. Shi, N. Lin, T. E. Shubina, T. Clark, H.-P. Steinrück, J. M. Gottfried, *Metalation of tetrapyridylporphyrin with Cu atoms on Au(111): Aspects of structure and reactivity*, Verhandl. DPG (2011) (L).

128. M. Schmid, A. Kaftan, M. Chen, J. Xiao, H.-P. Steinrück, **J. M. Gottfried**, *Cobalt phthalocyanine molecules adsorbed on Ag(111): Examination of interfacial interactions*, Verhandl. DPG (2011) O (P).

129. M. Pistor, K. Dumbuya, O. Lytken, L. Ringel, **J.M. Gottfried**, H.-P. Steinrück, *Gold-containing model catalysts studied with in-situ XPS*, Verhandl. DPG (2011) (P).

130. O. Lytken, H.-J. Drescher, F. Bebensee, H.-P. Steinrück, **J. M. Gottfried**, *Adsorption Calorimetry of Conjugated Organic Molecules on Metal Surfaces,* Verhandl. DPG (2011) (P).

131. M. Laurin, M. Sobota, M. Schmid, M. Happel, M. Amende, F. Maier, **J. M. Gottfried**, N. Paape, M. Fekete, I. Nikiforidis, W. Hieringer, X. Wang, K. Meyer, A. Görling, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Ionic liquid based model catalysts*, 110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Berlin, June 2-4, 2011. (P)

132. H.-J. Drescher, O. Lytken, F. Bebensee, H.-P. Steinrück, **J. M. Gottfried**, *Nanojoule Adsorption Calorimetry: Recent Technical Advances*, 110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Berlin, June 2-4, 2011. (P)

133. M. Schmid, M. Chen, J. Xiao, Z. Shi, N. Lin, T. E. Shubina, T. Clark, H.-P. Steinrück, **J. M. Gottfried**, *Surface coordination chemistry with a bifunctional ligand: Reaction of tetrapyridylporphyrin with Cu on Au(111)*, 110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Berlin, June 2-4, 2011. (L)

134. O. Lytken, H.-J. Drescher, F. Bebensee, H.-P. Steinrück, **J. M. Gottfried**, *Measuring the Heat of Formation of Metal-Organic Interfaces*, 110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Berlin, June 2-4, 2011. (P)

135. M. Sobota, M. Laurin, M. Happel, M. Amende, N. Paape, M. Schmid, **J. M. Gottfried**, F. Maier, H.-P. Steinrück, P. Wasserscheid, J. Libuda, *Towards model systems for solid catalysts with ionic liquid layers (SCILL): Site-specific interactions of [BMIM][Tf2N] with Pt and Pd nanoparticles*, 4th Congress on Ionic Liquids, June 15-18, 2011, Arlington, Virginia, USA. (P)

136. M. Schmid, J. Zirzlmeier, A. Kaftan, H.-P. Steinrück, **J. M. Gottfried**, *Interfacial Interactions of Iron-Porphyrin and Iron-Phthalocyanine on Ag(111) and Au(111): A Comparative Study*, 7th Brazilian/German Workshop on Applied Surface Science, April 3-8, 2011, Búzios, Brazil. (P)

137. K. Dumbuya, G. Cabailh, R. Lazzari, J. Jupille, L. Ringel, M. Pistor, O. Lytken, H.-P. Steinrück, **J. M. Gottfried**, *Identification of an oxygen species active in CO oxidation on Au/TiO2(110) during investigation by in situ X-ray Photoelectron Spectroscopy*, Gold: Faraday Discussion 152, 4 - 6 July 2011, Cardiff, UK. (P)

138. R. Tietze, S. Lyer, S. Dürr, E. Schreiber, J. Mann, C. Alexiou, S. Spallek, E. Spiecker, **J. M. Gottfried**, W. Peukert, *Drug carrying magnetic nanoparticles for tumor therapy: Characterisation and biological outcome*, Workshop on Multifunctional nanoparticles, magnetically controllable fluids, complex flows and applications, June 2-3, 2011, Timisora, Romania

139. H.-J. Drescher, O. Lytken, H.-P. Steinrück, **J. M. Gottfried**, *Nanojoule Adsorption Calorimetry*, 28th European Conference on Surface Science, ECOSS-28, August 20-September 2, 2011, Wroclaw, Poland.

140. K. Dumbuya, G. Cabailh, R. Lazzari, J. Jupille, L. Ringel, M. Pistor, O. Lytken, H.-P. Steinrück, **J. M. Gottfried**, *Identification of an oxygen species active in CO oxidation on Au/TiO2(110) during investigation by in situ X-ray Photoelectron Spectroscopy*, 8th International Workshop on Oxide Surfaces (IWOX-VIII), January 15-20, 2012, Baqueira Beret, Spain. (P)

141. J. Xiao, M. Chen, H.-P. Steinrück, **J.M. Gottfried**, *Evolution of metallophthalocyanine multilayers on Cu(111) during thermal treatment depends on the type of metal center*, Verhandl. DPG (2012) (P).

142. H.-J. Drescher, H. Zhou, O. Lytken, H.-P. Steinrück, **J.M. Gottfried**, *Nanojoule Adsorption Calorimetry*, Verhandl. DPG (2012) (L).

143. M. Chen, J. Xiao, M. Schmid, H.-P. Steinrück, **J.M. Gottfried**, *Reaction of Monolayer and Multilayer 2H-Phthalocyanine with a Cu(111) Surface*, Verhandl. DPG (2012) (L).

144. O. Lytken, H.-P. Steinrück, H.-J. Drescher, **J.M. Gottfried**, *Time-resolved Nanojoule Adsorption Calorimetry*, Verhandl. DPG (2012) (L).

145. Q. Fan, C. Wang, Y. Han, J.F. Zhu, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Surface-assisted organic synthesis: Hyperbenzene nanotroughs on Cu(111)*, Verhandl. DPG (2013) (L).

146. M. Chen, J. Xiao, H.-P. Steinrück, S.Y. Wang, W.H. Wang, N. Lin, **J. M. Gottfried**, *Combined photoemission and STM study of the surface-assisted Ullmann coupling reaction*, Verhandl. DPG (2013) (P).

147. H. Zhou, B. Klein, H.-J. Drescher, **J.M. Gottfried**, *Characterization of an Effusive High Flux Metal Source*, Verhandl. DPG (2013) (P).

148. Q. Fan, C. Wang, Y. Han, J. Zhu, W. Hieringer, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Surface-assisted organic synthesis: Novel hyperbenzene nanotroughs and coordination polymer chains on Cu(111)*, 112. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Karlsruhe, May 9 - 11, 2013. (L)

149. M. Zugermeier, M. Chen, H.-J. Drescher **J.M. Gottfried**, *Growth of Semiconducting Organic Crystals by Physical Vapor Deposition onto Thin Liquid Films*, 112. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Karlsruhe, May 9 - 11, 2013. (P)

150. Q. Fan, C. Wang, Y. Han, J. Zhu, W. Hieringer, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Direct surface-assisted organic synthesis of hyperbenzene nanotroughs*, International Vacuum Congress IVC-19, Paris, September 9-13, 2013.

151. M. Chen, J. Shang, Y. Wang, K. Wu, Q. Fan, C. Wang, Y. Han, J. Zhu, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Honeycombenes: A novel class of hydrocarbon macrocycles made by surface-assisted synthesis*, Frühjahrstagung der Deutschen Physikalischen Gesellschaft (DPG) (2014) (P).

152. Q. Fan, C. Wang, Y. Han, J. Zhu, M. Chen, H.-J. Drescher, M. Zugermeier, H. Zhou, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Surface-assisted synthesis of large hydrocarbon macrocycles: Honeycombenes and their organometallic intermediates*, Frühjahrstagung der Deutschen Physikalischen Gesellschaft (DPG) (2014) (L).

153. Q. Fan, C. Wang, Y. Han, L. Liu, J. Zhao, J. Zhu, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Surface-assisted organic synthesis of macromolecular structures,* ICSOS-11: 11th International Conference on the Structure of Surfaces, University of Warwick, Coventry, UK, 21-25 July 2014 (L).

154. M. Zugermeier, M. Chen, H.-J. Drescher, H. Zhou, B. Klein, C. Krug, M. Gorgoi, **J. M. Gottfried**, *Reactive cobalt/porphyrin interfaces probed with hard X-ray photoelectron spectroscopy (HAXPES)*, Materialforschungstag Mittelhessen 2014, June 26, 2014, Gießen, Germany (P).

155. M. Chen, J. Shang, Y. Wang, K. Wu, Q. Fan, C. Wang, Y. Han, J. Zhu, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Honeycombenes: Novel conjugated macrocycles formed at reactive metal/organic interfaces*, Materialforschungstag Mittelhessen 2014, June 26, 2014, Gießen, Germany (P).

156. Q. Fan, C. Wang, Y. Han, **J.M. Gottfried**, J.F. Zhu, *On-Surface Synthesis of Organic Macromolecular Structures through Ullmann Reaction*, AVS 61st International Symposium and Exhibition, November 9-14, 2014, Baltimore, USA (L).

157. M. Zugermeier, M. Chen, H.-J. Drescher, H. Zhou, B. Klein, C. Krug, **J.M. Gottfried**, *Reactive Cobalt/Porphyrin Interfaces Probed With Hard X-ray Photoelectron Spectroscopy (HAXPES)*, International Summer School on Semiconductor Interfaces – Methods and Model Systems, July 27-31, 2014, San Sebastian, Spain (P).

158. M. Chen, W. Hieringer, J. Shang, Y. Wang, K. Wu, Q. Fan, C. Wang, Y. Han, J.F: Zhu, J. Kuttner, G. Hilt, **J.M. Gottfried**, *Honeycombenes: Novel conjugated macrocycles formed at reactive metal/organic interfaces*, International Summer School on Semiconductor Interfaces – Methods and Model Systems, July 27-31, 2014, San Sebastian, Spain (P).

159. **J.M. Gottfried**, *On-surface synthesis of molecular and polymeric nanostructures,* Annual Meeting of the German Physical Society (DPG), Berlin, March 15-20, 2015, (L, invited).

160. H. Zhou, H.-J. Drescher, M. Chen, B. Klein, C. Krug, M. Zugermeier, M. Sachs, S. Kachel, M. Gorgoi, **J.M. Gottfried**, *Reactive Metal/Organic Interfaces Studied with HAXPES and Nanojoule Calorimetry*, Annual Meeting of the German Physical Society (DPG), Berlin, March 15-20, 2015, (P).

161. M. Zugermeier, M. Chen, M. Schmid, **J.M. Gottfried**, *Reactive Coupling and Self-Assembly of Tetraphenylporphyrins on Cu(111)*, Annual Meeting of the German Physical Society (DPG), Berlin, March 15-20, 2015, (P).

162. M. Zugermeier, J. Bernzen, V. Krein, C. Krug, J. Kuttner, M. Schmid, G. Hilt, **J.M. Gottfried**, *Functional Organic Molecules on Surfaces Studied with Scanning Tunneling Microscopy*, Materialforschungstag Mittelhessen, Marburg 2015.

163. B. Klein, M. Chen, H.-J. Drescher, H. Zhou, S. Kachel, M. Zugermeier, C. Krug, M. Sachs, M. Gorgoi, **J.M. Gottfried**, *Reactive Metal-Organic Interfaces Probed with Hard X-Ray Photoelectron Spectroscopy (HAXPES)*, Materialforschungstag Mittelhessen, Marburg 2015.

164. Q.T. Fan, **J.M. Gottfried**, J.F. Zhu, *On-Surface Synthesis of Organic Nanostructures on Copper Surfaces*, AVS 62nd International Symposium and Exhibition, San Jose, October 18-23, 2015. (L)

165. **J.M. Gottfried**, *On-surface synthesis of metal complexes, organic molecules and organometallic compounds,* FISMAT 2015 - Conference on Condensed Matter Physics, Palermo, Italy, September 28 - October 2, 2015. (Invited L)

166. **J.M. Gottfried,** *Surface-assisted synthesis - a versatile route to novel organic molecules and metal complexes,* 1st funCOS International Workshop, Functional Molecular Structures on Complex Oxide Surfaces (FOR 1878), Erlangen, November 8-10, 2015. (Invited L)

167. M. Zugermeier, N. Bock, M. Chen, F. Niefind, J. Herritsch, L. Ruppenthal, M. Schmid, P. Schweyen, M. Bröring, **J.M. Gottfried**, *Oxidation State Tuning in Ligand-Metal Surface Reaction: Formation of M(III)-Corroles on Ag(111)*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 06-11, 2016, (L).

168. B.P. Klein, P. Müller, J. Schepp, F. Niefind, M. Zugermeier, M. Schöniger, M. Schmid, **J.M. Gottfried**, *Beyond the hexagon: Non-alternant aromatic molecules on metal surfaces*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 06-11, 2016, (L).

169. M. Zugermeier, N. Bock, M. Chen, F. Niefind, J. Herritsch, L. Ruppenthal, M. Schmid, P. Schweyen, M. Bröring, **J.M. Gottfried**, *Metalation reactions of corroles at metal-organic interfaces*, ICII-2016 International Conference on Internal Interfaces, Marburg, 31 May-3 June 2016. (P)

170. B.P. Klein, M. Zugermeier, M. Chen, M. Schmid, **J.M. Gottfried**, *Analysis of buried metal-semiconductor interfaces with Hard X-ray Photoelectron Spectroscopy (HAXPES)*, ICII-2016 International Conference on Internal Interfaces, Marburg, 31 May-3 June 2016. (P)

171. N. Bock. B.P. Klein, **J.M. Gottfried**, *Electrospray Ion-Beam Deposition (ESI-IBD) of organic molecules as an alternative to vapor deposition*, ICII-2016 International Conference on Internal Interfaces, Marburg, 31 May-3 June 2016. (P)

172. M. Schmid, **J.M. Gottfried**, *Hard X-ray Photoelectron Spectrosocpy: A tool for chemical depth-profiling across buried interfaces*, ICII-2016 International Conference on Internal Interfaces, Marburg, 31 May-3 June 2016. (L)

173. M. Schmid, Q.T. Fan, M. Chen, M. Zugermeier, B.P. Klein, J.F. Zhu, **J.M. Gottfried**, *Molecular On-Surface Synthesis: Large Organic Molecules, Metal Complexes, and Organometallic Compounds,* On-surface Synthesis International Workshop (OSS16), San Sebastian, Spain, June 27-30, 2016. (L)

174. Q.T. Fan, J.Y. Dai, M. Chen, M. Zugermeier, B.P. Klein, J. Kuttner, G. Hilt, J.F. Zhu, **J.M. Gottfried**, *On-Surface Synthesis of Large Organic Molecules and Organometallic Compounds*, 32nd European Conference on Surface Science, ECOSS-32, Grenoble, France, August 28-September 2, 2016. (L)

175. B.P. Klein, P. Müller, M. Schöniger, P. Krüger, M. Zugermeier, P. Rosenow, R. Tonner, M. Schmid, **J.M. Gottfried**, *Beyond the hexagon: Non-alternant aromatic molecules on metal surfaces*, 32nd European Conference on Surface Science, ECOSS-32, Grenoble, France, August 28-September 2, 2016. (L)

176. M. Schmid, M. Chen, M. Zugermeier, L. Ruppenthal, F. Niefind, J. Herritsch, R. Tonner, **J.M. Gottfried**, *Tuning of the oxidation state of metal ions by using alternative tetrapyrrole ligands: Synthesis of Co(III) and Ni(III)-corroles on Ag(111)*, 32nd European Conference on Surface Science, ECOSS-32, Grenoble, France, August 28-September 2, 2016. (L)

177. Q.T. Fan, C.C. Wang, T. Wang, J.F Zhu, M. Chen, M. Zugermeier, C.K. Krug, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *Controlled on-surface synthesis of organic and organometallic macrocycles*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)

178. K.K. Greulich, B.P. Klein, N. van der Heijden, C.K. Krug, S.R. Kachel, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Topologically Different*

Aromatic Isomers on Metal Surfaces: A Molecular Model System for 5-7 Defects in Graphene, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)

179. B.P. Klein, N. van der Heijden, C.K. Krug, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Molecules*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)

180. M. Schmid, M. Chen, K. Ishioka, A. Beyer, B.P. Klein, C.K. Krug, M. Sachs, W. Stolz, K. Volz, U. Höfer, **J.M. Gottfried**, *Interphase Formation and Band Bending in Organic and Inorganic Semiconductor Films Examined with Hard X-ray Photoelectron Spectroscopy*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)

181. M. Schöniger, S.R. Kachel, M. Schmid, **J.M. Gottfried**, *Topology Dependent Molecule-Substrate Interactions: Azulene vs. Naphthalene in Temperature-Programmed Desorption*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)

182. M. Zugermeier, M. Chen, L. Heuplick, M. Liebold, N. Bock, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, M. Bröring, J. Sundermeyer, **J.M.Gottfried**, *On-Surface Synthesis of Naphthalocyanine and Corrole Complexes*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)

183. Q.T. Fan, C.C. Wang, T. Wang, J.F Zhu, M. Chen, M. Zugermeier, C.K. Krug, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *On-surface synthesis of macrocycles*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)

184. Q.T. Fan, C.C. Wang, T. Wang, J.F Zhu, M. Chen, C.K. Krug, M. Zugermeier, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *On-surface synthesis of low-dimensional nanostructures from haloarenes*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)

185. Q.T. Fan, C.C. Wang, T. Wang, J.F Zhu, M. Chen, M. Zugermeier, C.K. Krug, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *Template-Controlled On-Surface Synthesis of Macrocycles*, 116th General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)

186. B.P. Klein, N. van der Heijden, C.K. Krug, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Molecular Topology and Metal/Organic Interfaces,* 116th General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (L)

187. C.K. Krug, M. Chen, Q.T. Fan, J. Kuttner, M. Schmid, G. Hilt, J.F. Zhu, **J.M. Gottfried**, *Ullmann Coupling at Coinage Metal Surfaces*, 116th General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)

188. M. Zugermeier, M. Chen, H.-J. Drescher, L. Heuplick, B.P. Klein, C.K. Krug, M. Liebold, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, H. Zhou, M. Bröring, J. Sundermeyer, **J.M. Gottfried**, *Synthesis, Metalation and Structures of Tetrapyrroles at Interfaces*, 116th General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)

189. M. Schmid, M. Zugermeier, B.P. Klein, C.K. Krug, S.R. Kachel, **J.M. Gottfried**, *Examination of Buried Interfaces Between Transition Metal Layers and Tetrapyrrole Films with Hard X-ray Photoelectron Spectroscopy*, 116th General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (L)

190. B.P. Klein, N. van der Heijden, C.K. Krug, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Molecular Topology and Metal/Organic Interfaces,* 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (L)

191. M. Zugermeier, M. Chen, H.-J. Drescher, L. Heuplick, B.P. Klein, C.K. Krug, M. Liebold, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, H. Zhou, M. Bröring, J. Sundermeyer, **J.M. Gottfried**, *Synthesis, Metalation and Structures of Tetrapyrroles at Interfaces*, 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (P)

192. J.F. Zhu, Q. Fan, **J.M. Gottfried**, *Tailoring the topology of low-dimensional organic nanostructures with surface templates,* 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (L)

193. J.-N. Luy, **J.M. Gottfried**, R. Tonner, *Density functional studies of tetrapyrroles on Ag(111)*, 11th Triennial Congress of the World Association of Theoretical and Computational Chemists (WATOC 2017), Munich, Germany, August 27-September 1, 2017. (L)

194. M. Schmid, **J.M. Gottfried**, *Interphase Formation in Organic Semiconductor Films Examined with Hard X-ray Photoelectron Spectroscopy*, 7th Bonn Humboldt Award Winners' Forum "Fundamental Concepts and Principles of Chemical Energy Conversion", October 14-19, 2017, Bonn, Germany. (P)

195. M. Schmid, B. P. Klein, C. K. Krug, S. R. Kachel, **J.M. Gottfried**, *Examination of Metal-Organic Interphases with Hard X-Ray Photoelectron Spectroscopy (HAXPES)*, 655. WE-Heraeus-Seminar: Surfaces and Interfaces of Ionic Liquids, 03.12.2017-06.12.2017 Physikzentrum Bad Honnef, Germany. (P)

196. Q. Fan, S.R. Kachel, C. Wang, J. Zhu, J.I. Martínez, J.A. Martín-Gago, M. Schmid, **J.M. Gottfried**, *Reactions of organic molecules on oxide surfaces*, 663. WE-Heraeus-Seminar: Dynamics and Structure Formation of Organic Molecules on Dielectric Surfaces, 25.-28.02.2018, Physikzentrum Bad Honnef, Germany. (P)

197. **J.M. Gottfried**, Q.T. Fan, J.F. Zhu, C. Krug, K. Greulich, *On-Surface Synthesis of Polymers and Macrocycles*, 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (L)

198. B.P. Klein, N. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Molecules,* 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (L)

199. B.P. Klein, N. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *A Molecular Model System for 5-7 Defects in Graphene,* 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (P)

200. M. Schmid, S.R. Kachel, J. Hochstraßer, B. Klein, **J.M. Gottfried***, Characterization of reaction layers between metals and organic thin films with hard X-ray photoelectron spectroscopy*, 117th General Assembly of the German Bunsen Society for Physical Chemistry, Hannover, May 10-12, 2018. (L)

201. M. Zugermeier, M. Gruber, M. Schmid, B.P. Klein, L. Ruppenthal, P. Müller, R. Einholz, W. Hieringer, R. Berndt, H.F. Bettinger, **J.M. Gottfried**, *On-Surface Synthesis of Heptacene and its Interaction with a Metal Surface*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

202. B.P. Klein, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, F. Posseik, M. Schmid, R.J. Maurer, R. Tonner, C. Kumpf, **J.M. Gottfried**, *A Molecular Model System for 5-7*

Defects in Graphene, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

203. I. Piquero-Zulaica, A. García-Lekue, C.K. Krug, J.E. Ortega, **J.M. Gottfried**, J. Lobo-Checa, *Electronic band structure of poly (meta-phenylene) zigzag chains,* Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

204. Q.T. Fan, S. Werner, J. Tschakert, D. Ebeling, A. Schirmeisen, W. Hieringer, **J.M. Gottfried**, *Precise mono-selective aromatic C-H activation by chemisorption of meta-aryne on a metal surface*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

205. S.R. Kachel, B.P. Klein, J. Hochstraßer, M. Schmid, S. Seiler, B. Meyer, **J.M. Gottfried**, *Adsorption energies of aromatic molecules from quantitative TPD*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

206. S. Seiler, S.R. Kachel, J. Hochstraßer, **J.M. Gottfried**, B. Meyer, *A simple modification of Grimme's D3 density functional dispersion correction scheme for more accurate adsorption energies of organic molecules on surfaces*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

207. L. Ruppenthal, B.P. Klein, N.J. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Surface Chemical Bond of a Non-Alternant Aromatic Molecule on Metal Substrates*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

208. S.R. Kachel, B.P. Klein, M. Schöniger, M. Hutter, M. Schmid, **J.M. Gottfried**, *Intermolecular Repulsion at Metal/Organic Interfaces: A Quantitative TPD Study*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

209. J. Hochstraßer, L. Hellweg, S.R. Kachel, M. Schmid, **J.M. Gottfried**, *Benzene on Ag(111) and Cu(111): A quantitative TPD study*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

210. M. Schöniger, M. Schmid, **J.M. Gottfried**, *Investigation of Metal-Organic Interfaces by Adsorption Calorimetry*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

211. C.K. Krug, Q.T. Fan, F. Fillsack, J. Glowatzki, N. Trebel, M. Schmid, **J.M. Gottfried**, *Ullmann Coupling of 1,3-Dibromoazulene*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

212. J. Herritsch, M. Zugermeier, M. Chen, Q.T. Fan, M. Schmid, **J.M. Gottfried**, *On-Surface Metalation of Corrole Ligands*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)

213. M. Schmid, M. Zugermeier, J. Herritsch, B.P. Klein, C. Krug, L. Ruppenthal, P. Müller, M. Bröring, **J.M. Gottfried**, *On-Surface Synthesis and Characterization of an Iron Corrole*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

214. M. Schmid, M. Zugermeier, J. Herritsch, B.P. Klein, C.K. Krug, L. Ruppenthal, P. Müller, M. Kothe, P. Schweyen, M. Bröring, **J.M. Gottfried**, *Comparing Interfacial Interactions in Tetrapyrrole Monolayers: Fe(II)porphyrin/Ag(111) vs. Fe(III)corrole/Ag(111)*, 34th European Conference on Surface Science (ECOSS-34), Aarhus, Denmark, 26-31 September 2018. (L)

215. J.-N. Luy, J. Herritsch, M. Zugermeier, F. Niefind, M. Schmid, **J.M. Gottfried**, R. Tonner, *Density functional studies of metal-organic interfaces: Corroles on Ag(111)*, 34th European Conference on Surface Science (ECOSS-34), Aarhus, Denmark, 26-31 September 2018. (P)

216. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Metal/Organic Interfaces of Alternant and Non-Alternant Aromatic Molecules*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)

217. S.R. Kachel, C.K. Krug, M. Schmid, **J.M. Gottfried**, *HAXPES on Metal/Organic Interfaces*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)

218. J. Herritsch, M. Zugermeier, B.P. Klein, F. Niefind, L. Ruppenthal, M. Schmid, J.-N. Luy, R. Tonner, **J.M. Gottfried***, Interface reactions of corroles,* Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)

219. M. Schöniger, M. Schmid, J.M. Gottfried, *Investigation of Metal/Organic Interfaces by Adsorption Calorimetry,* Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (P)

220. Q.T. Fan, K. Greulich, M. Zugermeier, J.N. Luy, R. Tonner, J. Sundermeyer, **J.M. Gottfried**, *Template-Controlled Synthesis of an Expanded Phthalocyanine and its Open-Chain Counterpart,* Workshop "On surface synthesis", Sant Feliu de Guixols, Spain, 23-28 September 2018. (L)

221. J. Herritsch, M. Zugermeier, M. Chen, Q.T. Fan, M. Schmid, **J.M. Gottfried**, *Surface Reactions of Corroles*, Autumn School on Surface Chemical Physics and Functional Interfaces, Schönau am Königsee, Germany, 08-11 October 2018. (P)

222. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Molecules,* 9th Workshop on Advanced Spectroscopy of Organic Materials for Electronic Applications (ASOMEA-IX), October 23 – 26, 2018, Schluchsee, Germany. (P)

223. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. C. Bocquet, M. Schmid, R. Tonner, I. Swart, C. Kumpf, R.J. Maurer, **J.M. Gottfried**, *Molecular Topology and Metal-Organic Interactions,* 9th Workshop on Advanced Spectroscopy of Organic Materials for Electronic Applications (ASOMEA-IX), October 23 – 26, 2018, Schluchsee, Germany. (L)

224. P. Dombrowski, T. Breuer, S.R. Kachel, **J.M. Gottfried**, G. Witte, *Pentacene and Perfluoropentacene Bilayers – Well-Defined Interfaces vs. Molecular Intermixture*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

225. Q.T. Fan, D.M. Jimenez, S. Werner, D. Ebeling, A. Schirmeisen, J. Sundermeyer, W. Hieringer, **J.M. Gottfried**, *On-Surface Synthesis and Characterization of Cycloarene: a C108 Graphene Quantum Ring*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

226. J. Herritsch, J.N. Luy, M. Zugermeier, F. Niefind, Q.T. Fan, M. Schmid, P. Schweyen, M. Bröring, R. Tonner, **J.M. Gottfried**, *Influence of Porphyrinoid Ring Contraction: Transition Metal Corroles*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)

227. J. Herritsch, J.N. Luy, M. Zugermeier, F. Niefind, B.P. Klein, M. Schmid, P. Schweyen, M. Bröring, R. Tonner, **J.M. Gottfried**, *Aromaticity of Contracted Porphyrins: Surface*

Reactivity of an Adsorbed Corrole, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

228. M. Hutter, M. Zugermeier, G.Q. Lyu, M. Schmid, S.R. Kachel, N. Lin, **J.M. Gottfried**, *Reactions of Tetrapyrroles with Lead on Metal Surfaces*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)

229. S.R. Kachel, M. Schmid, B.P. Klein, N. Bock, **J.M. Gottfried**, *Reactive Metal-Organic Interfaces Studied with HAXPES: Modify Reaction Depth and Interphase Formation,* Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)

230. S.R. Kachel, P. Dombrowski, T. Breuer, G. Witte, **J.M. Gottfried**, *Low-Dimensional Hybrid Interfaces Between Acenes and TMDCs: Pentacene and Perfluoropentacene on MoS_2*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

231. B.P. Klein, R. Ruppenthal, M. Franke, S.R. Kachel, F.C. Bocquet, R. Tonner, C. Kumpf, R.J. Maurer, **J.M. Gottfried**, *Surface Chemical Bond of Alternant and Non-Alternant Aromatic Molecules: Influence of the Metal Surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

232. R. Ruppenthal, B.P. Klein, J. Herritsch, S.R. Kachel, **J.M. Gottfried**, *Surface Chemical Bond of Alternant vs. Non-Alternant Aromatic Isomers*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)

233. M. Schöniger, S.R. Kachel, C.K. Krug, T. Koehler, M. Schmid, **J.M. Gottfried**, *Reaction of Calcium with Tetraphenylporphyrin Thin Films: Reaction Energies and Reaction Depths*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

234. **J.M. Gottfried**, Q.T. Fan, C.K. Krug, J.N. Luy, R. Tonner, D. Ebeling, A. Schirmeisen, W. Hieringer, *Carbon-Based Functional Nanomaterials in 2D Confinement: On-Surface Synthesis, Aromaticity, and Molecular Topology*, 118th General Assembly of the German Bunsen Society for Physical Chemistry, Jena, May 30 – June 01, 2019. (L)

235. S.R. Kachel, B.P. Klein, M. Franke, C.K. Krug, L. Ruppenthal, F.C. Bocquet, W. Hieringer, R.J. Maurer, R. Tonner, C. Kumpf, **J.M. Gottfried**, 118th General Assembly of the German Bunsen Society for Physical Chemistry, Jena, May 30 – June 01, 2019. (P)

236. P. Dombrowski, S.R. Kachel, L. Neuhaus, T. Breuer, **J.M. Gottfried**, G. Witte, *Experimental Quantification of Interaction Energies in Organic Monolayers*, Annual Meeting of the German Physical Society (DPG), Virtual Meeting, September 27 - October 01, 2021. (L)

237. J. Herritsch, S.R. Kachel, Q.T. Fan, M. Hutter, L.J. Heuplick, F. Münster, J. M. Gottfried, On-Surface porphyrin transmetalation with Pb/Cu redox exchange, International Conference on Internal Interfaces (ICII-2021), 10-14 Oct 2021, Schloss Rheinfels, Germany. (P)

238. J. Herritsch, Q. Fan, M.-I. Albus, L. Ruppenthal, L.J. Heuplick, L. Neuhaus, T. Wassermann, J.M. Gottfried, Oxidation-State Tuning and Supramolecular Mixed-Valence Phases: Nickel(II) Porphyrin and Nickel(II) Corroles on Different Metal Surfaces, 12th International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022. (L)

239. F. Münster, J. Herritsch, S.R. Kachel, Q. Fan, M. Hutter, L.J. Heuplick, J.M. Gottfried, On-surface Porphyrin Transmetalation with Pb/Cu Redox Exchange, 12th International

Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022. (P)

240. L. Neuhaus, S.R. Kachel, P. Schweyen, M. Hutter, M. Schöniger, F. Münster, L. Ruppenthal, J. Herritsch, M.-I. Albus, M. Bröring, and **J.M. Gottfried**, *Reaction of Tetrapyrrole Thin Films with Alkali Metals*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)

241. J. Martinez-Castro, R. Bolat, Q.T. Fan, S. Werner, H. Arefi, T. Esat, J. Sundermeyer, C. Wagner, **J.M. Gottfried**, Ruslan Temirov, Markus Ternes, and F. Stefan Tautz, *Disentangling the Complex Electronic Structure of an Adsorbed Nanographene: Cycloarene C108*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

242. P.-M. Dombrowski, S.R. Kachel, L. Neuhaus, T. Breuer, **J.M. Gottfried**, and G. Witte, *Quantifying Interactions in Organic Monolayers*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

243. J. Herritsch, Q.T. Fan, M.-I. Albus, L. Ruppenthal, L.J. Heuplick, L. Neuhaus, T. Wassermann, and **J.M. Gottfried**, *Nickel(II) Porphyrins on Metal Surfaces: Oxidation-State Tuning and Formation of a Supramolecular Mixed-Valence Adsorbate Structure*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

244. L. Ruppenthal, F. Münster, B.P. Klein, J. Herritsch, L. Neuhaus, S.R. Kachel, P.C. Liu, X.-Y. Chen, J.W. Cao, L.E. Sattler, S.M. Weber, Q.T. Fan, G. Hilt, X.Y. Wang, and **J.M. Gottfried**, *Surface Chemical Bond and Molecular Topology of Polycyclic Aromatic Systems,* Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

245. Z.L. Ruan, B.J. Li, S.J. Sun, Y. Zhang, L. Gao, J.C. Lu, **J.M. Gottfried**, and J.M. Cai, *Real-space Imaging of Unprecedented Phenyl Group Migration Reaction on Metal Surfaces*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

246. L.J. Heuplick, Q.T. Fan, D.A. Astvatsaturov, D. Körmer, T.V. Dubinina, and **J.M. Gottfried**, *On-surface Synthesis of Naphthalocyanines with Extended π-Systems*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)

247. B.P. Klein, A. Ihle, S.R. Kachel, L. Ruppenthal, S.J. Hall, D. Ebeling, R. Tonner-Zech, R.J. Maurer, A. Schirmeisen, and **J.M. Gottfried**, *Stone-Wales defect: molecular model system reveals increased interaction with Cu(111) surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)

248. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried***, On-Surface Synthesis of Kekulene and Isokekulene*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)

249. F. Münster, L. Ruppenthal, L. Neuhaus, J. Herritsch, J.H. Both, P.C. Liu, X.-Y. Chen, J.W. Cao, X.-Y. Wang, and **J.M. Gottfried**, *Surface Chemical Bond of Alternant vs. Non-Alternant Aromatic Isomers*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)

250. J. Herritsch, S.R. Kachel, Q.T. Fan, M. Hutter, L.J. Heuplick, F. Münster, and **J.M. Gottfried**, *On-Surface Transmetalation of a Lead-Porphyrin on the Cu(111) surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)

251. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried***, On-Surface Synthesis of Kekulene and Isokekulene*, Summer School "Synthetic 2D Materials", Dresden, 19-23 September 2022. (P)

252. Z.L. Ruan, B.J. Li, S.J. Sun, Y. Zhang, L. Gao, J.C. Lu, **J.M. Gottfried**, and J.M. Cai, *Real-space Imaging of Unprecedented Phenyl Group Migration Reaction on Metal Surfaces*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (L)

253. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried***, On-Surface Synthesis of Kekulene and Isokekulene*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (P)

254. L.J. Heuplick, Q.T. Fan, D.A. Astvatsaturov, D. Körmer, T.V. Dubinina, and **J.M. Gottfried**, *On-surface Synthesis of Naphthalocyanines with Extended π-Systems*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (P)

255. K.F. Niu, Q.T. Fan, L.F. Chi, J. Rosen, **J.M. Gottfried**, J. Björk, *Unveiling the Formation Mechanism of the Biphenylene Network*, 747. WE-Heraeus-Seminar: Molecular Functionality at Surfaces: Self-Assembly, Manipulation, Reactivity and the Role of Decoupling, Physikzentrum Bad Honnef, 30 Oct - 04 Nov 2022. (P)

256. Z. Ruan, T. Naumann, J. B. Bauer, L. Heuplick, H. F. Bettinger, and J. M. Gottfried, *SPM Tip-induced Cleavage of Bridging Groups to Generate Carbon Nanomaterials*, Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (L)

257. J. Herritsch, J.-N. Luy, R. Tonner-Zech, and J. M. Gottfried*, Nickel(II) Porphyrins versus Nickel(II) Corroles on Different Metal Surfaces: Oxidation-State Tuning of Nickel Tetrapyrrole Complexes,* Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (L)

258. C. Guo, G. Pasko, J. Herritsch, J. M. Gottfried, *Ligand Size Controls Surface Chemical Bond: Cobalt Porphyrin versus Cobalt Corrole on the Ag(111),* Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (P)

259. L. Neuhaus, F. Münster, K. Zoltner, M. I. Albus, J. Herritsch, and J. M. Gottfried, *On-Surface Reaction of Tetraphenylporphyrin with Caesium,* Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (P)

260. T. Naumann, Z. Ruan, J. B. Bauer, L. J. Heuplick, H. F. Bettinger, **J. M. Gottfried**, *Preparation and Characterization of Model Carbon Nanomaterials by Manipulation with a Low-Temperature Scanning Probe Microscope*, Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)

261. J. Herritsch, Q. Fan, **J. M. Gottfried**, *Nickel Tetrapyrroles at Metal/Organic Interfaces,* Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)

262. L. Neuhaus, S. R. Kachel, F. Münster, K. Zoltner, M. Schöniger, M. I. Albus, J. Herritsch, **J. M. Gottfried**, *Reactions of Tetraphenylporphyrins with Lithium and Caesium at Metal/Organic Interphases,* Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)

H. Supervision of PhD, Master, Diploma and Bachelor Theses

PhD Theses

1. Ken-Dominic Flechtner
   Photoelektronenspektroskopische Untersuchungen zur Adsorption und Reaktivität von Co(II)-, Zn(II)- und Fe(II)-Porphyrinen auf Ag(111)
   Dissertation, Universität Erlangen-Nürnberg 2007 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Fabian Bebensee
   Metal-Polymer Interfaces Studied with Adsorption Microcalorimetry and Photoelectron Spectroscopy
   Dissertation, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Yun Bai
   Photoelectron Spectroscopic Investigations of Porphyrins and Phthalocyanines on Ag(111) and Au(111): Adsorption and Reactivity
   Dissertation, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Martin Schmid
   Characterization of Interfaces Between Metals and Organic Thin Films by Electron and Ion Spectroscopies
   Dissertation, Universität Erlangen-Nürnberg 2012 (co-supervised with Prof. Dr. H.-P. Steinrück).
5. Min Chen
   Surface-Assisted Chemistry at Interfaces between Metals and Organic Thin Films
   Dissertation, Universität Marburg 2016.
6. Hans-Jörg Drescher
   Nanojoule Calorimetry. Design, Construction, Novel Evaluation Approach, Software Development, Characterization, and Exemplary Measurements
   Dissertation, Universität Marburg 2016.
7. Han Zhou
   Reactive Metal-Organic Interfaces Studied with Adsorption Calorimetry and Photoelectron Spectroscopy
   Dissertation, Universität Marburg 2018.
8. Malte Zugermeier
   Reactive Aromatic Molecules on Metal Surfaces: Syntheses, Reactions and Structures
   Dissertation, Universität Marburg 2018.
9. Benedikt Klein
   The Surface Chemical Bond of Non-alternant Aromatic Molecules on Metal Surfaces
   Dissertation, Universität Marburg 2019.
10. Claudio Krug
    Structure and Reactivity of Aromatic Molecules on Metal Single-Crystal Surfaces and at Metal/Organic Interfaces
    Dissertation, Universität Marburg, 08/2020
11. Stefan Renato Kachel,
    Investigations of Metal/Organic Interfaces and Metalation Reactions of Organic Semiconductors
    Dissertation, Universität Marburg, 11/2020
12. Jan Herritsch
    Strategien zur Entwicklung funktionalisierter Oberflächen auf Basis von

Tetrapyrrolkomplexen
Dissertation, Universität Marburg 2022. (11.11.2022)

13. Maik Schöniger, Dissertation, Universität Marburg, in preparation.
14. Lukas Ruppenthal, Dissertation, Universität Marburg, in preparation.
15. Lukas Heuplick, Dissertation, Universität Marburg, in preparation.
16. Leonard Neuhaus, Dissertation, Universität Marburg, in preparation.
17. Florian Münster, Dissertation, Universität Marburg, in preparation.
18. Tim Naumann, Dissertation, Universität Marburg, in preparation.

Diploma / Master Theses

1. Thomas Lukasczyk
   Adsorption und Reaktion von Metalloporphyrinen auf einer Ag(111)-Oberfläche
   Diplomarbeit, Universität Erlangen-Nürnberg 2005 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Andreas Kretschmann
   Metallierung von Porphyrinen und Adsorption von kleinen Molekülen an Metalloporphyrinschichten auf einer Ag(111)-Oberfläche im Ultrahochvakuum
   Diplomarbeit, Universität Erlangen-Nürnberg 2006 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Hans-Jörg Drescher
   Aufbau und Charakterisierung eines Detektors für die Adsorptionsmikrokalorimetrie
   Diplomarbeit, Universität Erlangen-Nürnberg 2008 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Andy Weidinger
   Temperaturprogrammierte Desorption (TPD) im Ultrahochvakuum: Konzeption und Realisierungsauftakt eines Praktikumsversuchs
   Zulassungsarbeit zum Staatsexamen für Lehramtskandidaten, Universität Erlangen 2008 (co-supervised with Prof. Dr. H.-P. Steinrück).
5. Martina Hank
   Untersuchung von Goldkatalysatoren mittels Hochdruck-Röntgenphotoelektronen-spektroskopie
   Diplomarbeit, Universität Erlangen-Nürnberg 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).
6. Lorenz Ringel
   In-situ XPS Untersuchungen zur Adsorption von Kohlenmonoxid auf Au(111), TiO_2(110) und planaren goldhaltigen Modellkatalysatoren
   Diplomarbeit, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
7. Malte Zugermeier
   Wachstum organischer Molekülkristalle in dünnen Flüssigkeitsfilmen
   Masterarbeit, Universität Marburg, 2013
8. Claudio Krug
   Untersuchungen adsorbierter aromatischer Dicarbonitrile auf der Ag(111)-Oberfläche mittels Rastertunnelmikroskopie
   Masterarbeit, Universität Marburg, 2015.
9. Falk Niefind
   Surface reactions of corroles studied with photoelectron spectroscopy
   Masterarbeit, Universität Marburg, 2015.

10. Nicole Orthwein
Kinetische Messungen zur HCl-Oxidation an neuartigen Deacon-Katalysatoren
Diplomarbeit, Universität Marburg, 2015. (with Prof. H. Over, Gießen)
11. Malte Sachs
Curie-Magnetismus durch Leitungselektronenlokalisierung: Substitution von Ta durch Cu in 1T-TaS_2
Masterarbeit, Universität Marburg 2016.
12. Maik Schöniger
Investigations of Naphthalene and Azulene on Ag(111) and Cu(111) with Temperature-Programmed Desorption
Masterarbeit, Universität Marburg 2016.
13. Nikolaus Wollscheid
Konstruktion und Inbetriebnahme einer Probenpräparationskammer für Oberflächenexperimente im UHV
Masterarbeit, Universität Marburg 2016.
14. Benedikt Klein
Untersuchungen zur Adsorption von Azulen und Naphthalin auf Cu(111) und Ag(111)
Masterarbeit, Universität Marburg 2016.
15. Stefan Renato Kachel
Temperature-Programmed Desorption of Azulene and Naphthalene on Cu(111)
Masterarbeit, Universität Marburg 2017.
16. Nicolas Bock
Konstruktion und Aufbau einer Apparatur zur Ionenstrahl-Deposition von Molekülen
Masterarbeit, Universität Marburg 2017.
17. Simon Werner
Synthesis of brominated terphenyls and investigation of their reactivity on different metal surfaces
Masterarbeit, Universität Marburg 2017.
18. Katharina Greulich
Template-Assisted On-Surface Synthesis of Oligopyrroles
Masterarbeit, Universität Marburg 2018.
19. Jan Herritsch
Metallierungreaktionen zyklischer Tetrapyrrole auf der Ag(111)- und der Cu(111)-Oberfläche
Masterarbeit, Universität Marburg 2018.
20. Nicole Wutke
Synthese und Schwefel-Funktionalisierung grenzflächenaktiver Monomere und Polymere
Masterarbeit, Universität Marburg 2018.
21. Lukas Ruppenthal
Untersuchung der Bindung von Azulen und Naphthalin an einer Pt(111)-Metalloberfläche
Master Thesis, Universität Marburg 2019.
22. Tabea Köhler
On-Surface Synthesis of Carbon-Based Nanostructures
Master Thesis, Universität Marburg 2019.
23. Mark Hutter
Reactions of Tetraphenylporphyrin with Lithium and Lead on Coinage Metal Surfaces
Master Thesis, Universität Marburg 2019.

24. Lukas Heuplick
Untersuchung der Reaktivität von PbTPP auf der Cu(111)- und Au(111)-Oberfläche
Master Thesis, Universität Marburg 06/2020
25. Mengyi Chen
Hierarchical on-surface synthesis of carbon-based nanostructures with halogen substituted molecules
Master Thesis, Universität Marburg 07/2020
26. Leonard Neuhaus
Metallierung von 3H-HEDMC auf der Au(111)-Oberfläche mit Hauptgruppenmetallen
Master Thesis, Universität Marburg, 11/2020
27. Florian Münster
Adsorption von Acepleiadylen und Pyren auf Metalloberflächen
Master Thesis, Universität Marburg, 09/2021
28. Tim Naumann
Vergleich der Reaktivität von 2,7-Dibrom-1,6-methano[10]annulen auf Cu(111), Ag(110) und Ag(111)
Master Thesis, Universität Marburg, 05/2022

Bachelor Theses

1. Marie-Madeleine Walz
Direkte Synthese von Zn-Tetraphenylporphyrin auf einem Ag(111)-Kristall
Bachelorarbeit, Universität Erlangen-Nürnberg 2006 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Elisabeth Zillner
Photoelektronenspektroskopische Untersuchungen zur Adsorption und Reaktivität von Fe(II)-Porphyrinen auf Ag(111)
Bachelorarbeit, Universität Erlangen-Nürnberg 2007 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Michael Sekita
Photoelektronenspektroskopische Untersuchungen von Co(II)-Porphyrinen auf Au(111)
Bachelorarbeit, Universität Erlangen-Nürnberg, 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Bernhard Arnold
Untersuchung von goldhaltigen Modell- und Realkatalysatoren mittels Photoelektronenspektroskopie
Bachelorarbeit, Universität Erlangen-Nürnberg 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).
5. Johannes Zirzlmeier
Photoelektronenspektroskopische Untersuchungen zur Adsorption von Eisen(II)-Phthalocyanin auf einer Gold(111)-Oberfläche
Bachelorarbeit, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
6. Andre Kaftan
Adsorption von Cobalt-Phthalocyanin auf Ag(111): Untersuchungen mittels Photoelektronenspektroskopie und niederenergetischer Ionenstreuspektroskopie
Bachelorarbeit, Universität Erlangen-Nürnberg 2011.
7. Alexandra Roth
Interfacial interactions of metallophthalocyanines on Au(111)
Bachelorarbeit, Universität Erlangen-Nürnberg 2011.

8. Maximilian Wolf
   In-situ XPS evidence for an active oxygen species in CO oxidation on Au/TiO_2(110) model catalysts.
   Bachelorarbeit, Universität Erlangen-Nürnberg 2012.
9. Benedikt Klein
   Charakterisierung eines Magnesiumatomstrahls
   Bachelorarbeit, Universität Marburg 2012.
10. Dominik Recktenwald
    Kristallwachstum organischer Verbindungen in dünnen Flüssigkeitsfilmen
    Bachelorarbeit, Universität Marburg 2012.
11. Stefan Renato Kachel
    Photoelektronenspektroskopische Untersuchungen an der verborgenen Grenzfläche zwischen Calcium und α–Sexithiophen mittels Synchrotronstrahlung
    Bachelorarbeit, Universität Marburg 2014.
12. Denis Gruber
    Installation einer Ultrahochvakuum-Rastertunnelmikroskops (UHV-STM) und STM-Messungen an einer Graphene-Monolage
    Bachelorarbeit, Universität Marburg 2014.
13. Janek Bernzen
    Untersuchungen der Strukturen Carbonitril-substituierter Aromaten auf einer Ag(111)-Oberfläche
    Bachelorarbeit, Universität Marburg 2015.
14. Johanna Schepp
    Untersuchung der Adsorption von Azulen auf Cu(111) durch Photoelektronen-spektroskopie
    Bachelorarbeit, Universität Marburg 2015.
15. Mark Hutter
    Temperatur-Programmierte Desorption von Azulen und Naphthalin auf Cu(111)
    Bachelorarbeit, Universität Marburg 2016.
14. Philipp Müller
    Bestimmung der Schichtdicke adsorbierter organischer Moleküle auf Cu(111) und Ag(111)-Oberflächen
    Bachelorarbeit, Universität Marburg 2016.
15. Lukas Ruppenthal
    Reaktion eines Corrols mit Nickel auf Ag(111)
    Bachelorarbeit, Universität Marburg 2016.
16. Lukas Joshua Heuplick
    Oberflächenuntersuchung von 3H-HEDMC und Ni-HEDMC mithilfe der Rastertunnelmikroskopie
    Bachelorarbeit, Universität Marburg 2016.
16. Florian Fillsack
    Untersuchung der Adsorption von Azulen und eines dibromierten Derivats mittels Photoelektronenspektroskopie und Rastertunnelmikroskopie
    Bachelorarbeit, Universität Marburg 2017.
17. Tim Naumann
    Oberflächengestützte Synthese von Kekulen
    Bachelorarbeit, Universität Marburg 2019.
18. Marie Albus
    Untersuchung zur elektronischen Struktur des Zentralatoms in

Nickel(II)octaethylporphyrin auf den Münzmetall(111)-Oberflächen
Bachelorarbeit, Universität Marburg 2019.

19. Ruben Nußhär
Reaktionen von dünnen Corrol- und Porphyrinschichten mit Magnesium im Ultrahochvakuum: Untersuchungen mittels Photoelektronenspektroskopie
Bachelorarbeit, Universität Marburg 09/2020.

20. Grigori Pasko
Untersuchung des Reaktionsverhaltens von racemischem 2,7-Dibrom-1,6-methano[10]annulen auf der Cu(111)-Oberfläche
Bachelorarbeit, Universität Marburg 03/2022

21. Kassandra Zoltner
Untersuchung der oberflächengestützten Reaktion von 2,7-Dibrom-1,6-methano[10]annulen auf der Ag(110)-Oberfläche
Bachelorarbeit, Universität Marburg 03/2022

22. Sebastian Techert
Generation of Long Azaacenes by Tip Manipulation and On-Surface Synthesis of a Porous Graphene Nanoribbon
Bachelorarbeit, Universität Marburg 08/2024