

Prof. Dr. Florian Kraus

Personal Data

1977 Born in Passau, Bavaria, Germany
Married, one daughter



Education

1997 Abitur
1997 – 1998 Military Service
1998 Studies of Chemistry (Diploma) in Regensburg
2000 Vordiplom (Grade 1,1) in Regensburg
2002 Studies at the University of California, San Diego
2003 Diplom (Grade 1,2) in Regensburg.
Title of the diploma thesis: "*P₄²⁻ - a 6π-aromatic polyphosphide in dicaesium cyclotetraphosphide ammonia(1/2) Cs₂P₄·2NH₃*".
Advisor: Prof. Dr. Nikolaus Korber

Occupational Career

2003 – 2005 Doctoral thesis with Prof. Dr. Barbara Albert, University of Hamburg, and Prof. Dr. Nikolaus Korber, University of Regensburg
2005 Promotion (summa cum laude). Title of the thesis: „*Synthesis, X-ray, NMR-spectroscopical and quantum chemical characterisation of poly- and hydrogen polyphosphides, hydro-closo-borates, amides and amide-ammoniates in liquid ammonia*“
2006 – 2007 Scientific assistant with Prof. Dr. Thomas Fässler, Technische Universität München
2008 – Group leader of the fluorine chemistry group
2009 – 2010 Acting W2-Professor “Synthesis and Characterization of innovative Materials” at the Technische Universität München
2011 Habilitation in Inorganic Chemistry, *Facultas & Venia Legendi*
2014 – 2017 Heisenberg-Professor (full professor) at Philipps-Universität Marburg
2017 – Full professor of inorganic chemistry and fluorine chemistry at Philipps-Universität Marburg
2018 – 2020 Vice-Dean of the Department of Chemistry
2020 – 2021 Dean of the Department of Chemistry
2022 – Deputy member of the senate of Philipps-Universität Marburg

Honors

1997 Jugend forscht, Biology: Second Winner Bavaria
2001 Award of the Dr. Alfons Paulus Universitätsstiftung, Regensburg
2001 – 2005 Scholarship holder of www.e-fellows.net
2001 – 2003 Scholarship holder of the Studienstiftung des Deutschen Volkes
2003 – 2005 Fellowship holder of the Fonds der Chemischen Industrie
2004 – 2005 Associated scholarship holder of the Graduiertenkolleg GK 611: Design and Characterization of Functional Materials
2004 – 2006 Scholarship holder of the Studienstiftung des Deutschen Volkes
2006 Award for Doctoral Thesis from Dr. Alfons Paulus Universitätsstiftung, Regensburg
2006 – 2012 Liebig-Fellowship holder of the Fonds der Chemischen Industrie
2009 Good Lecturing Award „Preis für gute Lehre 2008“, Bavaria
2012 “Wöhler-Nachwuchspreis der Wöhlervereinigung für Anorganische Chemie”
2012 “Hans-Fischer-Preis” of the Technische Universität München
2012 – Heisenberg-Scholarship holder of the Deutsche Forschungsgemeinschaft
2013 Award “Ernst Otto Fischer Lehrpreis” of the TUM
2013 “Hoechst Dozentenpreis of the Aventis Foundation and of Fonds der chemischen Industrie”
2016 Steinhofer-Lecture 2016, Albert-Ludwigs-Universität Freiburg
2018 Reinhart Koselleck Project of the DFG: „Fluorine Chemistry under high pressure“

Activities

Board of directors of the section solid state and materials chemistry of the GDCh
Board of directors of the section fluorine chemistry of the GDCh
Member of the DFG Review Board for Inorganic Solid State and Surface Chemistry, Materials Synthesis
Member of the Joint Committee for Ethics in Security-Relevant Research of DFG and Leopoldina

Member of the Selection Board of the Henri Moissan International Prize
Member of the Selection Board of the Arfvedson-Schlenk Prize

Former Member of the Selection Board of the Carl Roth prize of the GDCh
Former Editor of "Monatshefte für Chemie – Chemical Monthly"
Former Member of the "Carl-Roth-Förderpreis" of the GDCh

Lecturing and publishing activities

> 80 lectures at universities in Germany and abroad (GDCh colloquia, invited lectures, etc.)
38 lectures at national conferences
18 lectures at international meetings, thereof approx. 11 as Invited Lecture and 3 Plenary Lectures
198 publications in peer-reviewed journals, 13 other publications, 3 book chapters, 4 patents

Memberships

Member of GDCh, Division of Solid-State Chemistry and Materials Research, Division of Analytical Chemistry, Division of Nuclear Chemistry, Wöhler Association, Working Group Fluorine Chemistry of GDCh
ACS member, Division of Fluorine Chemistry
RSC member

Public and social commitment

Firefighter in active service

Youtube channel "Fluorineisgreat"

TV contribution for Bayerisches Fernsehen / Arte: XeniusTV, "Hydrogen"
TV contribution for Bayerisches Fernsehen: "Rundschau" and "Abendschau", "Fertilizers containing ammonium nitrate"
TV contribution for Pro7 - Galileo: "What's in it ... Teflon"
TV feature for Pro7 - Galileo: "Can stones burn?"
TV feature for Pro7 – Galileo: "Can diamonds burn?"
TV feature for Sat1 - Galileo: "Warencheck - Teflon pans"

Radio report for Bayerischer Rundfunk: "Accidental discovery of Teflon - A patent turns 75"

Radio report for Bayern 2: "Huh? - What is fire made of?"