

PROF. DR. RER. NAT. HABIL.

Florian Kraus

Inorganic Chemistry – Fluorine Chemistry
University of Bonn



PERSONAL DETAILS

1977 Born in Passau
Married, one daughter

EDUCATION

1997 Abitur (German university entrance qualification)
1997 – 1998 German Armed Forces (Bundeswehr), flood relief operation in Frankfurt (Oder)
1998 Began studying chemistry in Regensburg
2000 Intermediate diploma (Vordiplom) in Regensburg
2002 Year abroad and research internships at the University of California, San Diego
2003 Diploma (Diplom) in Regensburg
Topic of the diploma thesis: " P_4^{2-} – a 6π -aromatic polyphosphide in dicaesium cyclotetraphosphide ammonia(1/2) $Cs_2P_4 \cdot 2NH_3$ ". Supervisor: Prof. Dr. Korber

PROFESSIONAL CAREER

2003 – 2005 Doctoral research in the groups of Prof. Dr. Albert, University of Hamburg, and Prof. Dr. Korber, University of Regensburg
2005 Doctorate (Dr. rer. nat.)
Doctoral thesis: "*Synthesis, X-ray crystallographic, NMR spectroscopic and quantum chemical characterisation of poly- and hydrogenpolyphosphides, hydro-closo-borates, amides and amide ammoniates in liquid ammonia*"
2006 – 2007 Research assistant in the group of Prof. Dr. Fässler, Inorganic Chemistry with a Focus on Novel Materials, Technical University of Munich (TUM)
2008 – 2014 Head of the Fluorine Chemistry research group at TUM
2009 – 2010 Interim holder of the W2 professorship "Synthesis and Characterisation of Innovative Materials" at TUM
2011 Habilitation in Inorganic Chemistry at TUM on the topic "*Introduction of Nitrogen into Fluorides*"
2014 – 2017 Heisenberg Professor (W3) of Inorganic Chemistry with a focus on Fluorine Chemistry at the University of Marburg
2017 – 2026 Chair of Inorganic Chemistry with a focus on Fluorine Chemistry at the University of Marburg
2018 – 2020 Vice Dean of the Department of Chemistry at the University of Marburg
2020 – 2021 Dean of the Department of Chemistry at the University of Marburg
2022 – 2025 Deputy member of the Senate of the University of Marburg
2023 – 2025 Again Vice Dean of the Department of Chemistry at the University of Marburg
2026 – Chair of Inorganic Chemistry, Fluorine Chemistry at the University of Bonn

SCHOLARSHIPS AND AWARDS

1997	Jugend forscht (German youth science competition), biology: second place, Bavarian state competition
2001	Book prize of the Dr. Alfons Paulus University Foundation, Regensburg
2001 – 2003	Scholarship holder of the German Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes)
2001 – 2005	Scholarship holder of www.e-fellows.net
2003 – 2005	Doctoral scholarship of the Fonds der Chemischen Industrie
2004 – 2006	Doctoral scholarship of the German Academic Scholarship Foundation
2006	Doctoral thesis prize of the Dr. Alfons Paulus University Foundation, Regensburg
2006 – 2012	Liebig Fellow of the Fonds der Chemischen Industrie
2009	“Prize for Good Teaching 2008” of the Free State of Bavaria
2012	Wöhler Young Investigator Award of the Wöhler Association for Inorganic Chemistry
2012	Hans Fischer Prize of TUM
2012 – 2014	Heisenberg Fellow of the German Research Foundation (DFG)
2013	Ernst Otto Fischer Teaching Award
2013	Hoechst Lecturer Award of the Aventis Foundation and the Fonds der Chemischen Industrie
2016	Steinhofer Lecture 2016, University of Freiburg
2018	Reinhart Koselleck Project of the DFG: “Fluorine Chemistry under High Pressure”
2024	34th Egon Wiberg Lecture, Ludwig Maximilian University of Munich
2026	Rudolf Hoppe Lecture 2026 of the GDCh Division of Solid State Chemistry and Materials Research

FURTHER ACTIVITIES

2025 –	Member of the selection committee of the Volkswagen Foundation programme “Pioneering Projects – Exploring the Unknown Unknown”
2022 –	Member of the selection committee of the Arfvedson Schlenk Award
2020 –	Member of the Joint Committee on the Handling of Security-Relevant Research of the DFG and the Leopoldina
2020 –	DFG review board member for Inorganic Solid State and Surface Chemistry, Materials Synthesis
2019 – 2027	Board member and Chair of the Fluorine Chemistry Division of the GDCh
2018 –	Member of the International Selection Board of the Henri Moissan Prize
2018 – 2026	Board member of the Division of Solid State Chemistry and Materials Science of the GDCh
2014 – 2018	Editor of “Monatshefte für Chemie – Chemical Monthly”
2013 – 2020	Member of the awarding committee of the Carl Roth Prize of the GDCh

LECTURES AND PUBLICATIONS

> 240

Publications in peer-reviewed journals

> 100

Lectures at universities in Germany and abroad

> 60

Lectures at national and international conferences

5

Patents

> 100 lectures at universities in Germany and abroad (GDCh colloquia, invited lectures at inorganic chemistry colloquia, etc.)

> 40 lectures at national conferences

> 20 lectures at international conferences, including approx. 12 invited lectures and 3 plenary lectures

> 230 publications in peer-reviewed journals, 14 other publications, 4 book chapters, 5 patents

MEMBERSHIPS

- 1998 –** German Chemical Society (GDCh): Division of Solid State Chemistry and Materials Research, Division of Analytical Chemistry, Division of Nuclear Chemistry, Wöhler Association, Fluorine Chemistry Division of the GDCh
- 2008 –** American Chemical Society, Division of Fluorine Chemistry
- 2014 –** Royal Society of Chemistry