

## Prof. Dr. Peter Vöhringer

### Personal Data

Title	Prof. Dr.
First name	Peter
Name	Vöhringer
Current position	Full Professor (C4)
Current institution(s)/site(s), country	Clausius-Institute of Physical and Theoretical Chemistry University of Bonn, Germany
Identifiers/ORCID	<a href="https://orcid.org/0000-0003-3098-0428">orcid.org/0000-0003-3098-0428</a>

### Qualifications and Career

<u>Stages</u>	<u>Periods and Details</u>
Degree programme	Diploma in Chemistry, 1984 – 1989, Göttingen, Germany
Doctorate	1991 Mentor: Prof. Dr. Jürgen Troe, Göttingen, Germany
Stages of academic/professional career	Since 2004, Chair for Molecular Physical Chemistry, University of Bonn, Germany 2004 Full professor (PR1) for Analytical, Physical and Theoretical Chemistry, Louis-Pasteur-University of Strasbourg 1998 – 2003 Junior Research Group Leader (C3), Max-Planck-Institute for biophysical Chemistry, Göttingen 1999 Habilitation, University of Würzburg, Germany 1995 – 1998 Senior researcher, University of Karlsruhe, supervisor: Prof. Dr. H. Hippler 1993 – 1994 Postdoctoral researcher, Chemistry Dept., University of Pennsylvania: Prof. Dr. N.F. Scherer 1991 – 1992 Postdoctoral researcher, Max-Planck-Institute for biophysical Chemistry, Göttingen: Prof. Dr. Jürgen Troe

### Activities in the Research System

#### **Committee involvement & activities in the field of academic self-governance:**

2022	Founding Director of the Clausius Institute of the University of Bonn
2020 – 2022	Senator of the University of Bonn
Since 2020	Recruitment Commissioner at the University of Bonn
2020 – 2024	Elected member of the Review Board “Physical Chemistry” of the German Research Foundation (Fachforum Chemie 1, Fach 323-01)
2018 – 2023	Managing Director of the Institute for Physical and Theoretical Chemistry of the University of Bonn
Since 2017	Member of the steering committee, Priority Program SPP 2102 “Light controlled reactivity of metal complexes” of the German Research Foundation

2016 – 2020	Elected member of the Review Board “Physical and Theoretical Chemistry” of the German Research Foundation (Fachforum Chemie, Fach 303)
Since 2016	Liaison Lecturer (Bonn) of the German Bunsen Society for Physical Chemistry
2016 – 2022	Founding Spokesperson of the Transdisciplinary Research Area “Building Blocks of Matter and Fundamental Interaction” of the University of Bonn
2016	Founding Spokesperson of the Bonn International Graduate School of Chemistry (BIGS Chemistry) at the University of Bonn
2010 – 2017	Spokesperson of the Collaborative Research Center CRC 813 “Chemistry at Spin Centers“
2008 – 2010	Member of the Topic Commission of the German Bunsen Society for Physical Chemistry
2007 – 2009	Chairman of the Chemistry Department of the University of Bonn
Since 2019	Member of the International Advisory Board of the biennial international conference “Time-Resolved Vibrational Spectroscopy” (TRVS)
2009 – 2013	Member of the International Advisory Board of the biennial “International Conference on Photochemistry” (ICP)

**Academic Distinctions:** Invited Professor at the Chemistry Faculty of the University of Strasbourg (2023); Associated Professor at the Chemistry Faculty of the Louis-Pasteur-University, Strasbourg (2003); Lecturer Award (Chemiedozentenstipendium) of the Chemical Industry Foundation (2000); Research fellowship of the German Research Foundation (1993); Graduate fellowship of the Chemical Industry Foundation (1990).

### Scientific Results

Citations: 4277, h-index: 36, i10-index: 76 ([Google Scholar](#), 21.03.2024)

#### **Category A** (\* corresponding author)

1. L.I. Domenianni, M. Bauer, T. Schmidt-Räntsch, J. Lindner, S. Schneider\*, **P. Vöhringer\*** “Photoinduced metallonitrene formation by N<sub>2</sub> elimination from azide diradical ligands” *Angew. Chem. Int. Ed.* **2023**, 62, e202309618. DOI: [10.1002/anie.202309618](https://doi.org/10.1002/anie.202309618).
2. J. Schmidt, L.I. Domenianni, M. Leuschner, A. Gansäuer\*, **P. Vöhringer\*** “Observing the entry events of a titanium-based photoredox-catalytic cycle in real time” *Angew. Chem. Int. Ed.* **2023**, 62, e202307178. DOI: [10.1002/anie.202307178](https://doi.org/10.1002/anie.202307178).
3. S. Flesch, **P. Vöhringer\*** “Ultrafast dynamics of photochemical nitrile imine formation” *Angew. Chem. Int. Ed.* **2022**, 61, e202205803. DOI: [10.1002/anie.202205803](https://doi.org/10.1002/anie.202205803).
4. S. Straub, **P. Vöhringer\*** “Spin-controlled binding of carbon dioxide by an iron center: Insights from ultrafast mid-infrared spectroscopy” *Angew. Chem. Int. Ed.* **2021**, 60, 2519–2525. DOI: [10.1002/anie.202012739](https://doi.org/10.1002/anie.202012739).
5. **P. Vöhringer\*** “Vibrations tell the tale. A time-resolved mid-infrared perspective of the photochemistry of iron complexes” *Dalton Trans.* **2020**, 49, 256–266. DOI: [10.1039/C9DT04165F](https://doi.org/10.1039/C9DT04165F).
6. S. Straub, P. Brünker, J. Lindner, **P. Vöhringer\*** “An iron complex with a bent, O-coordinated CO<sub>2</sub>-ligand discovered by femtosecond mid-infrared spectroscopy” *Angew. Chem. Int. Ed.* **2018**, 57, 5000–5005. DOI: [10.1002/anie.201800672](https://doi.org/10.1002/anie.201800672).

7. B. Wezislá, J. Lindner, U. Das, A.C. Filippou, **P. Vöhringer\*** "The femtochemistry of a ferracyclobutadiene" *Angew. Chem. Int. Ed.* **2017**, 56, 6901–6905. DOI: [10.1002/anie.201702987](https://doi.org/10.1002/anie.201702987).
8. **P. Vöhringer\*** "Ultrafast dynamics of electrons in ammonia" *Annu. Rev. Phys. Chem.* **2015**, 66, 97–118. DOI: [10.1146/annurev-physchem-040214-121228](https://doi.org/10.1146/annurev-physchem-040214-121228).
9. H. Vennekate, D. Schwarzer, J. Torres-Alacan, **P. Vöhringer\*** "The photochemical route to octahedral iron(V). Primary processes and quantum yields from ultrafast mid-infrared spectroscopy" *J. Am. Chem. Soc.* **2014**, 136, 10095–10103. DOI: [10.1021/ja5045133](https://doi.org/10.1021/ja5045133).
10. J. Torres-Alacan, U. Das, A.C. Filippou, **P. Vöhringer\*** "Observing the formation and the reactivity of an octahedral iron(V) nitrido complex in real time" *Angew. Chem. Int. Ed.* **2013**, 52, 12833–12837. DOI: [10.1002/anie.201306621](https://doi.org/10.1002/anie.201306621).

## Category B

### Publications

1. K. Heinze, C. Förster, **P. Vöhringer**, B. Sarkar "Licht und Leuchten bei 3d-Metallen" *Nachr. Chem.* **2019**, 67, 54–59. DOI: [10.1002/nadc.20194089001](https://doi.org/10.1002/nadc.20194089001).
2. B. Sarkar, **P. Vöhringer**, K. Heinze, C. Förster "Bindungen aktivieren und Redoxreaktionen" *Nachr. Chem.* **2019**, 67, 67–71. DOI: [10.1002/nadc.20194090185](https://doi.org/10.1002/nadc.20194090185).
3. J. Lindner, **P. Vöhringer\*** "Zweidimensionale IR-Spektroskopie und H-Brücken" *Nachr. Chem.* **2013**, 61, 316–319. DOI: [10.1002/nadc.201390089](https://doi.org/10.1002/nadc.201390089).
4. **P. Vöhringer\*** "Mehrdimensionale Infrarotspektroskopie. Eine neue Laser-basierte Technik zum Studium von ultraschneller Molekulardynamik" *GIT Labor-Fachzeitschrift* **2013**, (August) 288–290.  
<https://analyticalscience.wiley.com/do/10.1002/gitfach.10827/full/>.