

Curriculum Vitae Klaus R. Liedl

09/2024

Summary: Klaus R. Liedl is full professor of Theoretical Chemistry at the University of Innsbruck. His education comprises degrees in chemistry, mathematics and law. Currently Klaus R. Liedl's key academic figures are 443 publications, 12129 citations (<10% self-citations) and h-index of 61.

Klaus R. Liedl was born in 1968. His original academic education comprises both degrees in chemistry and mathematics resulting in a Master of Science (Mag.rer.nat.) degree at the University of Innsbruck in 1992. During his PhD he developed a QM/MM method, which allows particles to enter and leave the region of QM description in a consistent way. This method and its newer modification have been applied by numerous research groups around the world, especially, to study solvation processes. In 1993, he was the recipient of the Kurt Gödel research grant. Already towards the end his PhD Klaus R. Liedl obtained a tenure-track position at the University of Innsbruck.

In 1995, Klaus R. Liedl finished his PhD (Dr.rer.nat) and changed the direction of his research towards the investigation of reaction mechanisms comprising multiple proton transfer. During this time, he performed extensive teaching duties at several Southeast Asian Universities, especially at the Chulalongkorn University in Bangkok and at the Gadjah Mada University in Yogyakarta. He also started and maintained a close research collaboration with the University of Oxford, including multiple research stays at the University of Oxford resulting in several joint publications in the following years. During these years, also Klaus R. Liedl's interest in biomolecular systems arose, which grew ever since and evolved into the major focus of his research. He has developed and employed a broad spectrum of theoretical and computational methods focusing on molecular interactions and biological systems. Klaus R. Liedl has been tackling scientific questions in close collaboration with academic and industrial partners, ensuring feedback from experimental groups. He has been applying his knowledge and analysis tools to chemical interactions to understand biological interfaces.

In 1998, Klaus R. Liedl obtained his habilitation (venia legendi in Theoretical Chemistry) and got tenure as associate professor at the University of Innsbruck. In the following years, his research achievements were recognized, e.g., in form of the Novartis research award, the membership at Scientia Europæa (French Academy of Sciences), the Otto Seibert research award, and the prestigious Hans G.A. Helmann Award of the AG Theoretische Chemie (Deutsche Bunsengesellschaft, Deutsche Physikalische Gesellschaft, Gesellschaft Deutscher Chemiker). Due to the upcoming challenges arising from the spin-off of Austrian universities from government administration, in parallel, Klaus R. Liedl started to pursue a law degree, which he finished in 2003 (Mag.iur.). In 2006, he obtained a doctorate degree in law (Dr.iur.) focusing on intellectual property rights. This legal knowledge has been very useful ever since, e.g., in contract negotiations with industrial research partners, in the daily management of the department, and last but not least in teaching students about intellectual property rights.

2003-2020 Klaus R. Liedl was a board member of the Austrian Chemical Society heading the Computational Chemistry section from 2012-2020. 2012-2019 he also has been the head of the West-Austrian section of the Austrian Chemical Society and since 2012 he is the Austrian delegate at the European Chemical Society Division of Computational and Theoretical Chemistry. International activities comprise, e.g., three months at the American Westcoast, including research visits to Stanford University and University of California, San Francisco (UCSF). Since 2012 he has been a regular lecturer at the University of Pavia. Novartis awarded Klaus R. Liedl with the Novartis Chemistry Lectureship 2014-2015, which is granted to scientist in recognition of outstanding contributions to organic and computational chemistry, including applications to biology. This lectureship comprised invited talks at all major Novartis research sites worldwide. From 2014 to 2016 Klaus R. Liedl held a guest professorship at the Brazilian Universidade Federal de Minas Gerais (UFMG, Belo Horizonte), resulting in annual research and teaching visits and exchange of PhD students.

In 2012, Klaus R. Liedl became full professor for Theoretical Chemistry at the University of Innsbruck. In 2013, he became head of the Department of General, Inorganic and Theoretical Chemistry and served in this position until 2024 and head of the Faculty Council of the Faculty of Chemistry and Pharmacy at the University of Innsbruck until 2021.

Currently Klaus R. Liedl's key academic figures are (Google Scholar 09/2024): 443 publications (1 Science, 1 Nature, 1 Immunity, 1 Brain, 2 Journal of Allergy and Clinical Immunology, 16 JACS, 11 Angewandte Chemie, 4 PNAS), 12129 citations (<10% self-citations), h-index 61.

Important Industrial Partners (≥ 4 joint publications)	# of joint publications
Boehringer Ingelheim	24
Roche	20
Novartis	11
Sandoz	7
Sanofi	4
Important Academic Partners (≥ 4 joint publications)	# of joint publications
Medical University of Innsbruck	30
University of Cambridge	15
Friedrich-Schiller Universität Jena	15
Technische Universität Wien	12
University of Oxford	10
University of California	9
University of Vienna	8
Comenius University of Bratislava	8
SCRIPPS Research Institute	7
Universität Salzburg	7
Universidade Federal de Minas Gerais	7
University of London	6
Universität Hamburg	6
CNRS	5
Max Planck Society	5
Technical University of Munich	5
University of Munster	5
University of California San Diego	4
Friedrich-Alexander Universität Erlangen-Nürnberg	4
Ruder Boskovic Institute	4
Massachusetts Institute of Technology MIT	4
Agency for Science, Technology and Research (A*STAR)	4
Freie Universität Berlin	4
Columbia University	4