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Professor (W3), Institute Director of IPC and
scientific director IPHT

1) University education with degree

Diploma in chemistry, University of Würzburg, physical chemistry (03/1992)
Study of chemistry, University of Würzburg (10/1989-03/1992)
Study of chemistry (undergraduate), University of Erlangen-Nürnberg (10/1986-09/1989)

2) Scientific degrees

Venia legendi in chemistry, University Würzburg (02/2000)
Habilitation in physical chemistry, University Würzburg (01/1997-02/2000; mentor Prof. Dr. Wolfgang Kiefer)
PhD in chemistry, University of Würzburg (02/1995; supervisor Prof. Dr. Wolfgang Kiefer)
PhD studies, University of Würzburg (03/1992-02/1995; supervisor Prof. Dr. Wolfgang Kiefer)

3) Professional career since final degree

04/2002 – to date	Professor (W3), FSU Jena
04/2006 – to date	Scientific Director Leibniz Institute of Photonic Technology
1997-2002	Research associate, University of Würzburg, Institute of Physical Chemistry
1996	Postdoc, Department of Applied Physics, Yale University, New Haven, USA (supervisor Prof. Dr. Richard Kounai Chang)

4) Others

Prices and honors:

Election to the American Institute for Medical and Biological Engineering (AIMBE)
College of Fellows (2016)
Pittsburgh Spectroscopy Award (2016)
Robert-Kellner-Lecture Award (2013)
Research Award for Applied Sciences of the Free State of Thuringia, Germany (2013)
Awarding honorary doctor's degree at Babes-Bolyai University Cluj-Napoca (2012)
Fellow of the International Society for Optical Engineering (SPIE, 2012)
Guest professor Wuhan University, China (2011-)
Fellow of the Society for Applied Spectroscopy (2009)

Call for chair of Physical Chemistry (W3) at the University of Würzburg (2006, declined)
Bunsen-Kirchhoff Award by the German Bunsen-Society (2002)
Cooperation Prize of the University of Würzburg (2001)
Zehetmaier Award (Habilitation scholarship) awarded by the Freistaat Bayern (1997)
DFG Research scholarship (1996)
Award of the Faculty for Chemistry and Pharmacy, University of Würzburg (1994)

Editorial duties and membership advisory boards:

Member of the editorial advisory board of:

Journal of Biophotonics (Editor-in-Chief and founding editor), J. Raman Spectrosc. (associate editor), Scientific Reports, Analytical and Bioanalytical Chemistry

Member of the university council of the University of Applied Sciences Jena, Germany (2012-)

Member Board of Directors "Abbe Center of Photonics" (2011-)

Member Board of Directors "Zentrum für Medizinische Optik und Photonik" (2011-)

Member Board of Stakeholders European Technology Platform Photonics21 (2009-)

Coordinator of PHOTONICS4LIFE a European Network of Excellence for Biophotonics (2008-)

Member of the Board of Trustees of the "Stiftung für Technologie, Innovation und Forschung Thüringen (STIFT)" (2008-)

Member of the Board of Management of the „Wirtschaftsförderungsgesellschaft Jena mbH“ (2008-)

Member Federal Ministry of Education and Research (BMBF) program committee „Optical Technology“ (2007-)

Member of the scientific advisory board JENOPTIK AG (2007-)

Vice dean of the School of Chemical and Earth Sciences, FSU Jena (2005-2007)

Member of the faculty board, School of Chemical and Earth Sciences, FSU Jena (2003-)

Coordinator of the main research framework "Biophotonic" supported by the German Ministry of Education and Research (BMBF) (2002-)

5) **Publications**

662 publications in refereed journals

11715 citations

h-index: 50 (Source: Web of Science 11/16)

10 most important publications:

Krafft C, Schmitt M, Schie IW, Cialla-May D, Matthaeus C, Bocklitz T, Popp J* (2016) Label-free molecular imaging of biological cells and tissues by linear and non-linear Raman spectroscopic approaches, Angew. Chem. Int. Ed., DOI: 10.1002/anie.201607604R1. (*corresponding authors)

Krafft C, Schie IW, Meyer T, Schmitt M, Popp J* (2016) Developments in spontaneous and coherent Raman scattering microscopic imaging for biomedical applications, Chem. Soc. Rev., 45, 1819– 1849. (*corresponding author)

Berry D, Mader E, Lee TK, Woebken D, Palatinszky M, Schmid MC, Hanson BT, Wang Y, Zhu D, Schintlmeister A, Wagner M, Shterzer N, Mizrahi I, Rauch I, Decker T, Bocklitz T, Popp J, Gibson CM, Fowler PW, Huang WE (2015) Tracking heavy water (D2O) incorporation for identifying and sorting active microbial cells. Proc. Natl. Acad. Sci. U S A, 112, E194-203.

Press AT, Traeger A, Pietsch C, Mosig A, Wagner M, Clemens MG, Jbeily N, Koch N, Gottschaldt M, Beziere N, Ermolayev V, Ntziachristos V, Popp J, Kessels MM, Qualmann B, Schubert US, Bauer M (2014) Cell type-specific delivery of short interfering RNAs by dye-functionalised theranostic nanoparticles. Nature Commun. 5, 1-13.

Hölscher D, Dhakshinamoorthy S, Alexandrov T, Becker M, Bretschneider T, Buerkert A, Crecelius AC, De Waele D, Eisen A, Heckel DG, Heklau H, Hertweck C, Kai M, Knop K, Krafft C, Maddula RK, Matthaeus C, Popp J, Schneider B, Schubert US, Sikora RA, Svatos A, Swennen RL (2014) Phenalenone-type phytoalexins mediate resistance of banana plants (Musa spp.) to the burrowing nematode Radopholus similis. Proc. Natl. Acad. Sci. U S A, 111, 105-110.

Vargas Jentsch P, Ciobota V, Rösch P, Popp J* (2013) Reactions of alkaline minerals in the atmosphere. *Angew. Chem. Int. Ed.*, 52, 1410-1413. (*corresponding author)

Stöckel S, Meisel S, Elschner M, Rösch P, Popp J* (2012) Raman-spectroscopic detection of Anthrax endospores in hoax material. *Angew. Chem. Int. Ed.*, 51, 5339-5342. (*corresponding author)

Mappes T, Jahr N, Csaki A, Vogler N, Popp J, Fritzsche W (2012) The Invention of Immersion Ultramicroscopy in 1912-The Birth of Nanotechnology?. *Angew. Chem. Int. Ed.*, 51, 11208-11212.

Recknagel P, Gonnert FA, Westermann M, Lambeck S, Lupp A, Rudiger A, Dyson A, Carre JE, Kortgen A, Krafft C, Popp J, Sponholz C, Fuhrmann V, Hilger I, Claus RA, Riedemann NC, Wetzker R, Singer M, Trauner M, Bauer M (2012) Liver dysfunction and phosphatidylinositol-3-kinase signalling in early sepsis: Experimental studies in rodent models of peritonitis. *PLoS Med.*, 9, e1001338.

Tschierlei S, Karnahl M, Presselt M, Dietzek B, Guthmuller J, González L, Schmitt M, Rau S, Popp J* (2010) Photochemical fate: the first step determines efficiency of H₂ formation with a supramolecular photocatalyst, *Angew. Chem. Int. Ed.*, 49, 3981-3984. (*corresponding author)