

Curriculum Vitae

Jürgen Popp Professor, Dr. rer. nat. Dr. h.c.
d.o.b. May 04th, 1966, in Dinkelsbühl, Germany

University Education

2000 Habilitation in Physical Chemistry, University of Würzburg
1995 PhD in Chemistry, University of Würzburg
1986–1992 Studies of Chemistry, University of Würzburg and University of Erlangen–Nuremberg,

Scientific Career

Since 2002 W3-Professor, Chair of Physical Chemistry, Friedrich Schiller University Jena, Germany
Since 2006 Scientific Director of the Leibniz Institute of Photonic Technology e.V. Jena, Germany
Since 2024 Member of the Scientific Advisory Board of the "Center for Molecular Fingerprinting (CMF)", Hungary
Since 2024 Vice Director of the Center Biophotonics Technologies and Artificial Intelligence of the University of Albany; USA
Since 2016 Chairman of the university council of the University of Applied Sciences Jena, Germany
Since 2016 Initiator and core-partner of the "Leibniz Center for Photonics in Infection Research (LPI)"
Since 2015 Co-initiator and partner in the center for translational medicine "Biophotonics based diagnosis and therapy of age-related diseases (Cetramed)" of the German federal state Thuringia and the Jena University Hospital
Since 2014 Initiator and speaker of the Leibniz Research Alliance "Health Technologies"
Since 2013 Initiator and CEO of the research campus "InfectoGnostics"

Awards and Honors

2026 SPIE Biophotonics Technology Innovator Award 2026
2025 Adjunct Professor Department of Chemistry, University at Albany, USA
2024 Analytical Scientist 2024 Power List „Human Health Hero“
2024 Honorary Professorship for Cutting-edge Research in Biophotonics from Wuhan Textile University, China
2023 Charles Mann Award of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS)
2023 Awarding honorary doctor's degree at University at Albany – State University of New York (USA)
2022 The Photonics100 2023
2022 Kuivila Lectureship Award of the University of Albany (Chemistry Department)
2021 Fellow (FRSC) of the Royal Society of Chemistry
2020 OPTICA (formerly OSA) Senior Member
2019 Research Award for Applied Sciences of the Free State of Thuringia, Germany
2019 Ralf-Dahrendorf Award for the European Research Area
2018 Kaiser-Friedrich-Forschungspreis
2018 Third prize of the Berthold Leibinger Innovationspreis
2016 Election to the American Institute for Medical and Biological Engineering (AIMBE) College of Fellows
2016 Pittsburgh Spectroscopy Award
2013 Robert-Kellner-Lecture Award
2012 Awarding honorary doctor's degree at Babes-Bolyai University Cluj-Napoca (Rumania)

Citation Record

1,168 Publications; Total citations: 49,919; h-index:95; (Web of Science 28th of January 2026)

Top-10 selected Publications

Calvarese M, Corbetta E, Contreras J, Bae H, Lai C, Reichwald K, Meyer-Zedler T, Pertzborn D, Muhlig A, Hoffmann F, Messerschmidt B, Guntinas-Lichius O, Schmitt M, Bocklitz T, **Popp J**. Endoscopic AI-driven morphochemical imaging and fs-laser ablation for selective tumor identification and selective tissue removal. *Sci Adv* 2024; 10:eado9721 doi: [10.1126/sciadv.ado9721](https://doi.org/10.1126/sciadv.ado9721).

Shaked NT, Boppard SA, Wang LV, **Popp J**. Label-free biomedical optical imaging. *Nat Photonics* 2023; 17:1031 doi: [10.1038/s41566-023-01299-6](https://doi.org/10.1038/s41566-023-01299-6).

Yang W, Knorr F, Latka I, Vogt M, Hofmann GO, **Popp J**, Schie IW. Real-time molecular imaging of near-surface tissue using Raman spectroscopy. *Light Sci Appl* 2022; 11:90 doi: [10.1038/s41377-022-00773-0](https://doi.org/10.1038/s41377-022-00773-0).

Barman P, Chakraborty A, Akimov DA, Singh AK, Meyer-Zedler T, Wu XF, Ronning C, Schmitt M, **Popp J**, Huang JS. Nonlinear optical signal generation mediated by a plasmonic azimuthally chirped grating. *Nano Lett* 2022; 22:9914 doi: [10.1021/acs.nanolett.2c03348](https://doi.org/10.1021/acs.nanolett.2c03348).

Guo S, **Popp J**, Bocklitz T. Chemometric analysis in Raman spectroscopy from experimental design to machine learning-based modeling. *Nat Protoc* 2021; 16:5426 doi: [10.1038/s41596-021-00620-3](https://doi.org/10.1038/s41596-021-00620-3).

Pshenay-Severin E, Bae H, Reichwald K, Matz G, Bierlich J, Kobelke J, Lorenz A, Schwuchow A, Meyer-Zedler T, Schmitt M, Messerschmidt B, **Popp J**. Multimodal nonlinear endoscopic imaging probe using a double-core double-clad fiber and focus-combining micro-optical concept. *Light Sci Appl* 2021; 10:207 doi: [10.1038/s41377-021-00648-w](https://doi.org/10.1038/s41377-021-00648-w).

Zhu W, Cai EL, Li HZ, Wang P, Shen AG, **Popp J**, Hu JM. Precise encoding of triple-bond Raman scattering of single polymer nanoparticles for multiplexed imaging application. *Angew Chem Int Ed* 2021; 60:21846 doi: [10.1002/anie.202106136](https://doi.org/10.1002/anie.202106136).

Hotter V, Zopf D, Kim HJ, Silge A, Schmitt M, Aiyara P, Fleck J, Matthäus C, Hniopek J, Yang Q, Loper J, Sasso S, Hertweck C, **Popp J**, Mittag M. A polyene toxin produced by an antagonistic bacterium blinds and lyses a Chlamydomonas alga. *Proc Natl Acad Sci U S A* 2021; 118:e2107695118 doi: [10.1073/pnas.2107695118](https://doi.org/10.1073/pnas.2107695118).

Büttner H, Rassbach J, Schultz C, **Popp J**, Gressler M, Hertweck C. Beneficial Soil Fungus Kills Predatory Nematodes with Dehydropeptides Translocating into the Animal Gut. *J Am Chem Soc* 2024; 146:34702–34710 doi: [10.1021/jacs.4c12989](https://doi.org/10.1021/jacs.4c12989).

Vuong T, Shetty P, Kurtoglu E, Schultz C, Schrader L, Then P, Petersen J, Westermann M, Rredhi A, Chowdhury S, Mukherji R, Schmitt M, **Popp J**, Stallforth P, Mittag M. Metamorphosis of a unicellular green alga in the presence of acetate and a spatially structured three-dimensional environment. *New Phytol* 2025; 245:1180–1196 doi: [10.1111/nph.20299](https://doi.org/10.1111/nph.20299).