

# Hans-Gerd LÄhmannsrÄjben

## List of Publications by Year in descending order

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50  
papers

1,118  
citations

623734

14  
h-index

395702

33  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Dot Biosensors for Ultrasensitive Multiplexed Diagnostics. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1396-1401.	13.8	263
2	Quantum Dots as Efficient Energy Acceptors in a Time-Resolved Fluoroimmunoassay. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7612-7615.	13.8	121
3	Prediction of the Ionic Liquid Influence on Propagation Rate Coefficients in Methyl Methacrylate Radical Polymerizations Based on Kamlet-Taft Solvatochromic Parameters. <i>Macromolecules</i> , 2009, 42, 8801-8808.	4.8	79
4	A Quantum Dot-Based Molecular Ruler for Multiplexed Optical Analysis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7570-7574.	13.8	78
5	GNOSIS: THE FIRST INSTRUMENT TO USE FIBER BRAGG GRATINGS FOR OH SUPPRESSION. <i>Astronomical Journal</i> , 2013, 145, 51.	4.7	64
6	Soil Nutrient Detection for Precision Agriculture Using Handheld Laser-Induced Breakdown Spectroscopy (LIBS) and Multivariate Regression Methods (PLSR, Lasso and GPR). <i>Sensors</i> , 2020, 20, 418.	3.8	57
7	Two-photon fluorescence lifetime imaging of intracellular chloride in cockroach salivary glands. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 319-327.	2.9	43
8	Dual Role of the Molybdenum Cofactor Biosynthesis Protein MOCS3 in tRNA Thiolation and Molybdenum Cofactor Biosynthesis in Humans. <i>Journal of Biological Chemistry</i> , 2012, 287, 17297-17307.	3.4	42
9	Interaction of photosensitive surfactant with DNA and poly acrylic acid. <i>Journal of Chemical Physics</i> , 2014, 140, 044907.	3.0	35
10	Ion Mobility Spectrometric Investigation of Aromatic Cations in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3514-3520.	2.5	27
11	Two-Photon Excitation Fluorescence Spectroscopy of Quantum Dots: Photophysical Properties and Application in Bioassays. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9641-9647.	3.1	21
12	Investigation of ion-molecule collisions with laser-based ion mobility spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2388-2393.	2.8	20
13	Comparison of Calibration Approaches in Laser-Induced Breakdown Spectroscopy for Proximal Soil Sensing in Precision Agriculture. <i>Sensors</i> , 2019, 19, 5244.	3.8	18
14	Europium-quantum dot nanobioconjugates as luminescent probes for time-gated biosensing. <i>Journal of Biomedical Optics</i> , 2014, 19, 101506.	2.6	17
15	An Electrospray Ionization-Ion Mobility Spectrometer as Detector for High-Performance Liquid Chromatography. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 391-402.	1.0	15
16	Protein Quantification Using Resonance Energy Transfer between Donor Nanoparticles and Acceptor Quantum Dots. <i>Analytical Chemistry</i> , 2013, 85, 2921-2926.	6.5	14
17	Photophysical evaluation of a new functional terbium complex in FRET-based time-resolved homogenous fluoroassays. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6060.	2.8	14
18	Detection of Rare Earth Elements in Minerals and Soils by Laser-Induced Breakdown Spectroscopy (LIBS) Using Interval PLS. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1379.	2.0	14

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19	Optical sensing with photon density waves: Investigation of model media. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5182-5187.	2.8	13
20	Deuteration effects on the vibronic structure of the fluorescence spectra and the internal conversion rates of triangular [4]phenylene. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5476-5483.	2.8	13
21	Characterization of volatile metabolites formed by molds on barley by mass and ion mobility spectrometry. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4501.	1.6	11
22	Cyclic GMP recognition using ratiometric QD-fluorophore conjugate nanosensors. <i>Biosensors and Bioelectronics</i> , 2014, 52, 288-292.	10.1	10
23	What information is contained in the fluorescence correlation spectroscopy curves, and where. <i>Physical Review E</i> , 2016, 94, 022407.	2.1	10
24	Atmospheric pressure chemical ionization of explosives induced by soft X-radiation in ion mobility spectrometry: mass spectrometric investigation of the ionization reactions of drift gasses, dopants and alkyl nitrates. <i>Journal of Mass Spectrometry</i> , 2016, 51, 566-577.	1.6	9
25	High-performance liquid chromatography with electrospray ionization ion mobility spectrometry: Characterization, data management, and applications. <i>Journal of Separation Science</i> , 2016, 39, 4756-4764.	2.5	9
26	Detection of volatile organic compounds in the headspace above mold fungi by GC-soft X-radiation-based APCL-MS. <i>Journal of Mass Spectrometry</i> , 2018, 53, 911-920.	1.6	9
27	GNOSIS: an OH suppression unit for near-infrared spectrographs. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
28	IR-MALDI ion mobility spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6259-6268.	3.7	8
29	Real-time Reaction Monitoring of an Organic Multistep Reaction by Electrospray Ionization Ion Mobility Spectrometry. <i>ChemPlusChem</i> , 2017, 82, 1266-1273.	2.8	8
30	An alternative field switching ion gate for ESI-ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2017, 20, 67-73.	1.4	8
31	Microsecond mid-infrared laser pulses for atmospheric pressure laser ablation/ionization of liquid samples. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 298-305.	7.8	7
32	Laser-based ion mobility spectrometer for the direct analysis of aromatic compounds in liquids. <i>International Journal for Ion Mobility Spectrometry</i> , 2014, 17, 105-115.	1.4	5
33	A time-resolved luminescent competitive assay to detect L-selectin using aptamers as recognition elements. <i>Analytica Chimica Acta</i> , 2015, 887, 209-215.	5.4	5
34	Photodynamic Inactivation of <i>E. coli</i> Bacteria via Carbon Nanodots. <i>ACS Omega</i> , 2021, 6, 23742-23749.	3.5	5
35	PRAXIS: an OH suppression optimised near infrared spectrograph. , 2018, , .		5
36	GNOSIS: a novel near-infrared OH suppression unit at the AAT. , 2012, , .		4

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37	IR-MALDI ion mobility spectrometry: physical source characterization and application as HPLC detector. International Journal for Ion Mobility Spectrometry, 2016, 19, 197-207.	1.4	4
38	Spot variation fluorescence correlation spectroscopy by data post-processing. Scientific Reports, 2017, 7, 5614.	3.3	4
39	In situ monitoring of photocatalyzed isomerization reactions on a microchip flow reactor by IR-MALDI ion mobility spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 7899-7911.	3.7	4
40	Total protein concentration quantification using nanobeads with a new highly luminescent terbium(III) complex. RSC Advances, 2016, 6, 115068-115073.	3.6	3
41	Subambient pressure electrospray ionization ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2017, 20, 47-56.	1.4	3
42	Laser ionization ion mobility spectrometric interrogation of acoustically levitated droplets. Analytical and Bioanalytical Chemistry, 2019, 411, 8053-8061.	3.7	3
43	Structural characterization of synthetic peptides using electrospray ion mobility spectrometry and molecular dynamics simulations. International Journal of Mass Spectrometry, 2019, 436, 108-117.	1.5	3
44	PRAXIS: an OH suppression optimised near infrared spectrograph. , 2020, , .		2
45	A broadband cavity ring-down spectrometer based on an incoherent near infrared light source. Applied Physics B: Lasers and Optics, 2014, 116, 785-792.	2.2	1
46	Elastic FRET sensors for contactless pressure measurement. RSC Advances, 2017, 7, 50578-50583.	3.6	1
47	Sub-ambient pressure IR-MALDI ion mobility spectrometer for the determination of low and high field mobilities. Analytical and Bioanalytical Chemistry, 2020, 412, 5247-5260.	3.7	1
48	Optimized homogeneous immunoassay based on XeCl-laser excited foirster resonance energy transfer. , 0, , .		0
49	Soil sensing in precision agriculture by laser-induced breakdown spectroscopy and multivariate regression methods.. , 2021, , .		0
50	Liquid phase IR-MALDI and differential mobility analysis of nano- and sub-micron particles. Physical Chemistry Chemical Physics, 2022, 24, 2275-2286.	2.8	0