Hans-Gerd LÃ¶hmannsrÃ¶ben

List of Publications by Year
in descending order

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	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
2	Photodynamic Inactivation of E. coli Bacteria via Carbon Nanodots. ACS Omega, 2021, 6, 23742-23749.	3.5	5
3	Soil sensing in precision agriculture by laser-induced breakdown spectroscopy and multivariate regression methods.. , 2021, , .		0
4	Detection of Rare Earth Elements in Minerals and Soils by Laser-Induced Breakdown Spectroscopy (LIBS) Using Interval PLS. Minerals (Basel, Switzerland), 2021, 11, 1379.	2.0	14
5	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
6	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
7	Soil Nutrient Detection for Precision Agriculture Using Handheld Laser-Induced Breakdown Spectroscopy (LIBS) and Multivariate Regression Methods (PLSR, Lasso and GPR). Sensors, 2020, 20, 418.	3.8	57
8	Characterization of volatile metabolites formed by molds on barley by mass and ion mobility spectrometry. Journal of Mass Spectrometry, 2020, 55, e4501.	1.6	11
9	PRAXIS: an OH suppression optimised near infrared spectrograph. , 2020, , .		2
10	Laser ionization ion mobility spectrometric interrogation of acoustically levitated droplets. Analytical and Bioanalytical Chemistry, 2019, 411, 8053-8061.	3.7	3
11	Comparison of Calibration Approaches in Laser-Induced Breakdown Spectroscopy for Proximal Soil Sensing in Precision Agriculture. Sensors, 2019, 19, 5244.	3.8	18
12	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
13	Two-Photon Excitation Fluorescence Spectroscopy of Quantum Dots: Photophysical Properties and Application in Bioassays. Journal of Physical Chemistry C, 2018, 122, 9641-9647.	3.1	21
14	Detection of volatile organic compounds in the headspace above mold fungi by <scp>GC</scp>â€soft <scp>X</scp>â€radiationâ€“based <scp>APCIâ€MS</scp>. Journal of Mass Spectrometry, 2018, 53, 911-920.	1.6	9
15	PRAXIS: an OH suppression optimised near infrared spectrograph. , 2018, , .		5
16	Subambient pressure electrospray ionization ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2017, 20, 47-56.	1.4	3
17	Elastic FRET sensors for contactless pressure measurement. RSC Advances, 2017, 7, 50578-50583.	3.6	1
18	Realâ€Time Reaction Monitoring of an Organic Multistep Reaction by Electrospray Ionizationâ€Ion Mobility Spectrometry. ChemPlusChem, 2017, 82, 1266-1273.	2.8	8

#	Article	IF	Citations
19	An alternative field switching ion gate for ESI-ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2017, 20, 67-73.	1.4	8
20	Spot variation fluorescence correlation spectroscopy by data post-processing. Scientific Reports, 2017, 7, 5614.	3.3	4
21	Microsecond mid-infrared laser pulses for atmospheric pressure laser ablation/ionization of liquid samples. Sensors and Actuators B: Chemical, 2017, 238, 298-305.	7.8	7
22	IR-MALDI ion mobility spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 6259-6268.	3.7	8
23	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. Journal of Mass Spectrometry, 2016, 51, 566-577.	1.6	9
24	Total protein concentration quantification using nanobeads with a new highly luminescent terbium(<scp>iii</scp>) complex. RSC Advances, 2016, 6, 115068-115073.	3.6	3
25	What information is contained in the fluorescence correlation spectroscopy curves, and where. Physical Review E, 2016, 94, 022407.	2.1	10
26	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
27	Highâ€performance liquid chromatography with electrospray ionization ion mobility spectrometry: Characterization, data management, and applications. Journal of Separation Science, 2016, 39, 4756-4764.	2.5	9
28	An Electrospray Ionization-Ion Mobility Spectrometer as Detector for High-Performance Liquid Chromatography. European Journal of Mass Spectrometry, 2015, 21, 391-402.	1.0	15
29	A time-resolved luminescent competitive assay to detect L-selectin using aptamers as recognition elements. Analytica Chimica Acta, 2015, 887, 209-215.	5.4	5
30	Interaction of photosensitive surfactant with DNA and poly acrylic acid. Journal of Chemical Physics, 2014, 140, 044907.	3.0	35
31	Europium-quantum dot nanobioconjugates as luminescent probes for time-gated biosensing. Journal of Biomedical Optics, 2014, 19, 101506.	2.6	17
32	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
33	Laser-based ion mobility spectrometer for the direct analysis of aromatic compounds in liquids. International Journal for Ion Mobility Spectrometry, 2014, 17, 105-115.	1.4	5
34	Photophysical evaluation of a new functional terbium complex in FRET-based time-resolved homogenous fluoroassays. Physical Chemistry Chemical Physics, 2014, 16, 6060.	2.8	14
35	Cyclic GMP recognition using ratiometric QD-fluorophore conjugate nanosensors. Biosensors and Bioelectronics, 2014, 52, 288-292.	10.1	10
36	Protein Quantification Using Resonance Energy Transfer between Donor Nanoparticles and Acceptor Quantum Dots. Analytical Chemistry, 2013, 85, 2921-2926.	6.5	14

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37	GNOSIS: THE FIRST INSTRUMENT TO USE FIBER BRAGG GRATINGS FOR OH SUPPRESSION. Astronomical Journal, 2013, 145, 51.	4.7	64
38	Dual Role of the Molybdenum Cofactor Biosynthesis Protein MOCS3 in tRNA Thiolation and Molybdenum Cofactor Biosynthesis in Humans. Journal of Biological Chemistry, 2012, 287, 17297-17307.	3.4	42
39	GNOSIS: a novel near-infrared OH suppression unit at the AAT. , 2012, , .		4
40	GNOSIS: an OH suppression unit for near-infrared spectrographs. Proceedings of SPIE, 2010, , .	0.8	8
41	Quantum Dot Biosensors for Ultrasensitive Multiplexed Diagnostics. Angewandte Chemie - International Edition, 2010, 49, 1396-1401.	13.8	263
42	A Quantumâ€Dotâ€Based Molecular Ruler for Multiplexed Optical Analysis. Angewandte Chemie - International Edition, 2010, 49, 7570-7574.	13.8	78
43	Prediction of the Ionic Liquid Influence on Propagation Rate Coefficients in Methyl Methacrylate Radical Polymerizations Based on Kamletâ"Taft Solvatochromic Parameters. Macromolecules, 2009, 42, 8801-8808.	4.8	79
44	Two-photon fluorescence lifetime imaging of intracellular chloride in cockroach salivary glands. Photochemical and Photobiological Sciences, 2009, 8, 319-327.	2.9	43
45	Ion Mobility Spectrometric Investigation of Aromatic Cations in the Gas Phase. Journal of Physical Chemistry A, 2006, 110, 3514-3520.	2.5	27
46	Quantum Dots as Efficient Energy Acceptors in a Time-Resolved Fluoroimmunoassay. Angewandte Chemie - International Edition, 2005, 44, 7612-7615.	13.8	121
47	Deuteration effects on the vibronic structure of the fluorescence spectra and the internal conversion rates of triangular [4]phenylene. Physical Chemistry Chemical Physics, 2004, 6, 5476-5483.	2.8	13
48	Optical sensing with photon density waves: Investigation of model media. Physical Chemistry Chemical Physics, 2003, 5, 5182-5187.	2.8	13
49	Investigation of ionâ€"molecule collisions with laser-based ion mobility spectrometry. Physical Chemistry Chemical Physics, 2001, 3, 2388-2393.	2.8	20
50	Optimized homogeneous immunoassay based on XeCl-laser excited foirster resonance energy transfer. , 0, , .		0