

Johannes Kiefer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176
papers

3,790
citations

34
h-index

53
g-index

199
ext. papers

4,431
ext. citations

3.5
avg, IF

5.85
L-index

#	Paper	IF	Citations
176	Microexplosions of multicomponent drops in spray flames. <i>Combustion and Flame</i> , 2022 , 240, 112043	5.3	0
175	Quantification of the interactions in halide-anion-based imidazolium ionic liquids. <i>Journal of Ionic Liquids</i> , 2022 , 2, 100032		0
174	Thermometry by vibrational Raman spectroscopy of nitrogen: Identification and impact of spatial averaging effects. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 1582-1588	2.3	1
173	Theoretical investigation of global rainbow refractometry in spray combustion of polydisperse microdroplets. <i>Journal of Modern Optics</i> , 2021 , 68, 259-266	1.1	
172	Phase-selective laser-induced breakdown spectroscopy in flame spray pyrolysis for iron oxide nanoparticle synthesis. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 1711-1718	5.9	10
171	Liquid-Liquid Phase Behavior of Diesel/Biofuel Blends: Ternary Mixtures of n-Hexadecane, 2,2,4,4,6,8,8-Heptamethylnonane, and Ethanol and the Binary Subsystems. <i>Energy & Fuels</i> , 2021 , 35, 4835-4847	4.1	1
170	Rapid Analysis of Chemical Composition and Physical Properties of Gemstones Using LIBS and Chemometric Technique. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6156	2.6	2
169	The effect of introducing an ether group into an imidazolium-based ionic liquid in binary mixtures with DMSO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15734-15742	3.6	19
168	Ion Pairs of 1-Butyl-3-Methylimidazolium Triflate Do Not Dissociate in Propan-1-ol: A Vibrational Spectroscopic Viewpoint. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1620	2.6	1
167	State-of-the-Art Infrared Applications in Drugs, Dietary Supplements, and Nutraceuticals. <i>Journal of Spectroscopy</i> , 2020 , 2020, 1-2	1.5	6
166	Vapor-Liquid Equilibria of the Ionic Liquid 1-Hexyl-3-methylimidazolium Triflate (C6mimTfO) with n-Alkyl Alcohols. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5142-5157	3.9	2
165	The gas-phase formation of tin dioxide nanoparticles in single droplet combustion and flame spray pyrolysis. <i>Combustion and Flame</i> , 2020 , 215, 389-400	5.3	17
164	Liquid-Liquid Phase Behavior of Solutions of 1,3-Diethylimidazolium Bis((trifluoromethyl)sulfonyl)amide in n-Alkyl Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1345-1357	2.8	3
163	Revisiting the Liquid-Liquid Phase Behavior of -Alkanes and Ethanol. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 156-172	3.4	4
162	The interactions between polar solvents (methanol, acetonitrile, dimethylsulfoxide) and the ionic liquid 1-ethyl-3-methylimidazolium bis(fluorosulfonyl)imide. <i>Journal of Molecular Liquids</i> , 2020 , 299, 112159	6.59	25
161	Cold pressed paprika (<i>Capsicum annuum</i>) seed oil 2020 , 97-103		
160	Konzeptionierung eines spektroskopischen Analyseverfahrens zur Untersuchung von Lebensmittelkomponenten. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 1303-1303	0.8	

159	Revealing the impact of laser-induced breakdown on a gas flow. <i>Measurement Science and Technology</i> , 2020 , 31, 027001	2	1
158	Continuous method for determining the optical rotation in chiral media with internal referencing. <i>Measurement Science and Technology</i> , 2020 , 31, 017005	2	1
157	Spectroscopic and computational insights into the ion-solvent interactions in hydrated aprotic and protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20791-20804	3.6	4
156	Identification of Passion Fruit Oil Adulteration by Chemometric Analysis of FTIR Spectra. <i>Molecules</i> , 2019 , 24,	4.8	10
155	Particle image velocimetry in refractive index fields of combustion flows. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	6
154	Nutritional composition and dietary intake of composite dishes traditionally consumed in Italy. <i>Journal of Food Composition and Analysis</i> , 2019 , 77, 115-124	4.1	11
153	Vapor Liquid Equilibria of 1-Ethyl-3-methylimidazolium Triflate (CmimTfO) and -Alkyl Alcohol Mixtures. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6076-6089	3.4	6
152	Effect of Isomerism on the Liquid-Liquid Phase Behavior of Mixtures of 1-Alkyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)amide Ionic Liquids with Heptanol. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 2395-2405	2.8	6
151	Passion Fruit (<i>Passiflora</i> spp.) Seed Oil 2019 , 577-603		2
150	Interplay of Different Moieties in the Binary System 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate/Water Studied by Raman Spectroscopy and Density Functional Theory Calculations. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4004-4016	3.4	8
149	Molecular-Level Insights into the Microstructure of a Hydrated and Nanoconfined Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3359-3371	3.4	8
148	Chemometric analysis of enantioselective Raman spectroscopy data enables enantiomeric ratio determination. <i>Analyst, The</i> , 2019 , 144, 5368-5372	5	3
147	Application of Infrared Spectroscopy for Functional Compounds Evaluation in Olive Oil: A Current Snapshot. <i>Journal of Spectroscopy</i> , 2019 , 2019, 1-11	1.5	20
146	Ethanol droplet formation, dynamics and combustion mode in the flame of the SpraySyn-nozzle. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	11
145	Comparison of existing laser-induced breakdown thermometry techniques along with a time-resolved breakdown approach. <i>Applied Optics</i> , 2019 , 58, 3950-3956	1.7	9
144	Principal component analysis to enhance enantioselective Raman spectroscopy. <i>Analyst, The</i> , 2019 , 144, 2080-2086	5	2
143	Grape Seeds: Chromatographic Profile of Fatty Acids and Phenolic Compounds and Qualitative Analysis by FTIR-ATR Spectroscopy. <i>Foods</i> , 2019 , 9,	4.9	55
142	Cluster Formation through Hydrogen Bond Bridges across Chloride Anions in a Hydroxyl-Functionalized Ionic Liquid. <i>ChemPhysChem</i> , 2019 , 20, 936-940	3.2	10

141	Dual-probe polarization spectroscopy as a concept for combustion diagnostics. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1283-1286	2.3	1
140	Chemistry of iron nitrate-based precursor solutions for spray-flame synthesis. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24793-24801	3.6	15
139	Dual-Wavelength Raman Fusion Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 1764-1767	7.8	4
138	Unsupervised Screening of Vibrational Spectra by Principal Component Analysis for Identifying Molecular Clusters. <i>ChemPhysChem</i> , 2018 , 19, 795-800	3.2	7
137	Vibrational Spectroscopy as a Promising Toolbox for Analyzing Functionalized Ceramic Membranes. <i>Applied Spectroscopy</i> , 2018 , 72, 947-955	3.1	3
136	Influence of the alkyl chain on the vibrational structure and interionic interactions in 1-alkyl-3-methylimidazolium trifluoromethanesulfonate ionic liquids. <i>Journal of Molecular Liquids</i> , 2018 , 255, 413-418	6	13
135	Absorption, emission, and schlieren imaging of liquid and gas flows using an LED and a webcam. <i>TM Technisches Messen</i> , 2018 , 85, 292-301	0.7	
134	Butanol as a potential biofuel: A spectroscopic study of its blends with n-decane and diesel. <i>Fuel</i> , 2018 , 222, 312-318	7.1	10
133	Effects of C(2) Methylation on Thermal Behavior and Interionic Interactions in Imidazolium-Based Ionic Liquids with Highly Symmetric Anions. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1043	2.6	15
132	Infrared Spectroscopic Analysis of the Inorganic Deposits from Water in Domestic and Technical Heat Exchangers. <i>Energies</i> , 2018 , 11, 798	3.1	24
131	The Danger of Relying on Database Spectra. <i>Applied Spectroscopy</i> , 2018 , 72, 1272-1276	3.1	4
130	Vapor Liquid Equilibria of Binary Mixtures of 1-Butyl-3-methylimidazolium Triflate (CmimTfO) and Molecular Solvents: n-Alkyl Alcohols and Water. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6017-6032	3.4	13
129	Raman-Spektroskopie als vielseitiges Werkzeug in der Lebensmittelanalytik. <i>Chemie-Ingenieur-Technik</i> , 2018 , 90, 1241-1241	0.8	
128	Optical Spectroscopy for Analysis and Monitoring of Metalworking Fluids. <i>Applied Spectroscopy</i> , 2018 , 72, 1790-1797	3.1	5
127	An Innovative and Integrated Food Research Approach: spectroscopy applications to milk and a case study of a milk-based dish 2018 , 5, 12-27		9
126	Fuels Gaseous 2018 , 90-90		
125	Chain length effects on the vibrational structure and molecular interactions in the liquid normal alkyl alcohols. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 189, 57-65	4.4	17
124	Qualitative Analysis of Traditional Italian Dishes: FTIR Approach. <i>Sustainability</i> , 2018 , 10, 4112	3.6	20

123	Clusters of the Ionic Liquid 1-Hydroxyethyl-3-methylimidazolium Picrate: From Theoretical Prediction in the Gas Phase to Experimental Evidence in the Solid State. <i>ChemPhysChem</i> , 2018 , 19, 3061-3068	3.2	18
122	Strategies for suppressing elastically scattered laser light in ungated laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018 , 149, 267-270	3.1	1
121	Enantioselective Raman spectroscopy (esR) for distinguishing between the enantiomers of 2-butanol. <i>Analyst, The</i> , 2018 , 143, 3040-3048	5	6
120	Vibrational signatures of anionic cyano groups in imidazolium ionic liquids. <i>Vibrational Spectroscopy</i> , 2017 , 91, 141-146	2.1	24
119	Quantitative measurement of complex substances dissolved in an ionic liquid using IR spectroscopy and chemometrics. <i>TM Technisches Messen</i> , 2017 , 84, 32-37	0.7	2
118	Advanced Laser-Based Techniques for Gas-Phase Diagnostics in Combustion and Aerospace Engineering. <i>Applied Spectroscopy</i> , 2017 , 71, 341-366	3.1	42
117	Intermediate phases during solid to liquid transitions in long-chain n-alkanes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13941-13950	3.6	17
116	Simultaneous Acquisition of the Polarized and Depolarized Raman Signal with a Single Detector. <i>Analytical Chemistry</i> , 2017 , 89, 5725-5728	7.8	11
115	Comment on Red/blue shifting hydrogen bonds in acetonitrile Dimethyl sulphoxide solutions: FTIR and theoretical studies DOI: 10.1016/j.molstruc.2017.03.036. <i>Journal of Molecular Structure</i> , 2017 , 1143, 487-488	3.4	3
114	Dielectric Relaxation of the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethyl Sulfate: Microwave and Far-IR Properties. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 4845-4852	3.4	6
113	Removal of Confined Ionic Liquid from a Metal Organic Framework by Extraction with Molecular Solvents. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10577-10586	3.8	9
112	Influence of the alkyl side-chain length on the ultrafast vibrational dynamics of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide (CmimNTF) ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15988-15995	3.6	3
111	Synthesis, conductivity, and vibrational spectroscopy of tetraphenylphosphonium bis(trifluoromethanesulfonyl)imide. <i>Journal of Molecular Structure</i> , 2017 , 1146, 203-212	3.4	16
110	Numerical model for predicting experimental effects in enantioselective Raman spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	5
109	Using a supercontinuum light source for instantaneous excitation-emission fluorescence mapping. <i>Measurement Science and Technology</i> , 2017 , 28, 067001	2	3
108	Analysis of single malt Scotch whisky using Raman spectroscopy. <i>Analytical Methods</i> , 2017 , 9, 511-518	3.2	22
107	Influence of methyl and propyl groups on the vibrational spectra of two imidazolium ionic liquids and their non-ionic precursors. <i>Journal of Molecular Structure</i> , 2017 , 1134, 582-590	3.4	28
106	Screening Precursor-Solvent Combinations for LiTiO Energy Storage Material Using Flame Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37760-37777	9.5	48

105	Infrared spectroscopy of the symmetric branched isomers of n-heptanol. <i>Journal of Molecular Liquids</i> , 2017 , 244, 528-532	6	7
104	Raman and Infrared Spectroscopy of Crude Oil and its Constituents 2017 , 245-269		0
103	Irreversible Damage of Polymer Membranes During Attenuated Total Reflection Infrared Analysis. <i>Applied Spectroscopy</i> , 2017 , 71, 1127-1133	3.1	5
102	Mid-infrared laser-induced thermal grating spectroscopy in flames. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 4515-4523	5.9	11
101	Infrared Spectroscopy for Studying Structure and Aging Effects in Rhamnolipid Biosurfactants. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 533	2.6	11
100	Infrared Spectroscopy as Molecular Probe of the Macroscopic Metal-Liquid Interface. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1229	2.6	0
99	Influence of Water on the Chemistry and Structure of the Metal-Organic Framework Cu ₃ (btc) ₂ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17323-17333	3.8	45
98	Molecular Structure and Interactions in the Ionic Liquid 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6274-86	2.8	57
97	Combined spontaneous Stokes and coherent anti-Stokes Raman scattering spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	2
96	Mid-Infrared Pumped Laser-Induced Thermal Grating Spectroscopy for Detection of Acetylene in the Visible Spectral Range. <i>Applied Spectroscopy</i> , 2016 , 70, 1034-43	3.1	9
95	Shearlet-based detection of flame fronts. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	26
94	Molecular Interactions of a Cu-Based Metal-Organic Framework with a Confined Imidazolium-Based Ionic Liquid: A Combined Density Functional Theory and Experimental Vibrational Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3295-3304	3.8	105
93	Comparison of Raman and IR spectroscopy for quantitative analysis of gasoline/ethanol blends. <i>Fuel</i> , 2016 , 166, 488-494	7.1	14
92	Sensitivity, stability, and precision of quantitative Ns-LIBS-based fuel-air-ratio measurements for methane-air flames at 1-11 bar. <i>Applied Optics</i> , 2016 , 55, 8042-8048	0.2	31
91	Simultaneous acquisition of absorption and fluorescence spectra of strong absorbers utilizing an evanescent supercontinuum. <i>Optics Letters</i> , 2016 , 41, 5684-5687	3	1
90	Infrared Spectroscopy of Bilberry Extract Water-in-Oil Emulsions: Sensing the Water-Oil Interface. <i>Biosensors</i> , 2016 , 6, 13	5.9	18
89	Advances in nonlinear optical spectroscopies: a historical perspective of developments and applications presented at ECONOS. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1111-1123	2.3	3
88	Advanced instantaneous shifted-excitation Raman difference spectroscopy (iSERDS) using a laser pointer. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1049-1055	2.3	9

87	Misalignment Effects in Laser-Induced Grating Experiments. <i>Applied Spectroscopy</i> , 2016 , 70, 2025-2028	3.1	2
86	Polarization-controlled optical ring cavity (PORC) tunable pulse stretcher. <i>Optics Communications</i> , 2016 , 372, 98-105	2	3
85	Quantitative enantioselective Raman spectroscopy. <i>Analyst, The</i> , 2015 , 140, 5012-8	5	12
84	Recent Advances in the Characterization of Gaseous and Liquid Fuels by Vibrational Spectroscopy. <i>Energies</i> , 2015 , 8, 3165-3197	3.1	55
83	Impact of plasma dynamics on equivalence ratio measurements by laser-induced breakdown spectroscopy 2015 , 54, 4221		11
82	Revisiting the Aqueous Solutions of Dimethyl Sulfoxide by Spectroscopy in the Mid- and Near-Infrared: Experiments and Car-Parrinello Simulations. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14780-9	3.4	88
81	Characterization of gasoline/ethanol blends by infrared and excess infrared spectroscopy. <i>Fuel</i> , 2015 , 141, 136-142	7.1	36
80	Time-resolved femtosecond CARS of the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 722-726	2.3	15
79	Influence of carbon-coated iron nanoparticles on the Raman spectrum of liquid ethanol. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 1124-1128	2.3	10
78	Molecular Solution Behaviour of an Intermediate Biofuel Feedstock: Acetone-Butanol-Ethanol (ABE). <i>ChemPhysChem</i> , 2015 , 16, 3846-58	3.2	11
77	Shearlet-based edge detection: flame fronts and tidal flats 2015 ,		4
76	Characterization of Nanoparticles by Solvent Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2015 , 87, 12313-7	3.7	16
75	Probing the Evaporation Dynamics of Ethanol/Gasoline Biofuel Blends Using Single Droplet Manipulation Techniques. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12797-804	2.8	15
74	Universal enantioselective discrimination by Raman spectroscopy. <i>Analyst, The</i> , 2015 , 140, 1787-90	5	15
73	Fluorescence spectroscopy of Rhodamine 6G: concentration and solvent effects. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 121, 147-51	4.4	121
72	Determination of gas composition in a biogas plant using a Raman-based sensor system. <i>Measurement Science and Technology</i> , 2014 , 25, 075503	2	36
71	Molecular structure and interactions in the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 2547-57	2.8	73
70	Ultrafast vibrational dynamics and energy transfer in imidazolium ionic liquids. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6136-41	16.4	41

69	Instantaneous shifted-excitation Raman difference spectroscopy (ISERDS). <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 980-983	2.3	11
68	Strategy for PLIF single-shot HCO imaging in turbulent methane/air flames. <i>Combustion and Flame</i> , 2014 , 161, 1566-1574	5.3	29
67	Laser-induced fluorescence detection of hot molecular oxygen in flames using an alexandrite laser. <i>Applied Spectroscopy</i> , 2014 , 68, 1266-73	3.1	2
66	Simultaneous measurement of speed of sound, thermal diffusivity, and bulk viscosity of 1-ethyl-3-methylimidazolium-based ionic liquids using laser-induced gratings. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14493-501	3.4	15
65	Automatic Low-Cost Method to Determine the Solubility of Liquid-Liquid Mixtures by Continuous-Flow Cloud Point Titration. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1736-1740	2	4
64	Surface and bulk porosity mapping of polymer membranes using infrared spectroscopy. <i>Journal of Membrane Science</i> , 2014 , 452, 152-156	9.6	19
63	Combined shifted-excitation Raman difference spectroscopy and support vector regression for monitoring the algal production of complex polysaccharides. <i>Analyst, The</i> , 2013 , 138, 5639-46	5	36
62	Light-emitting diode based shifted-excitation Raman difference spectroscopy (LED-SERDS). <i>Analyst, The</i> , 2013 , 138, 6258-61	5	17
61	Simultaneous measurements of fuel vapor concentration and temperature in a flash-boiling propane jet using laser-induced gratings. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1356-1362	2.3	16
60	Polarization-resolved high-resolution Raman spectroscopy with a light-emitting diode. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1625-1627	2.3	10
59	Laser-induced breakdown spectroscopy in a partially premixed turbulent jet flame. <i>Measurement Science and Technology</i> , 2013 , 24, 075205	2	13
58	Probing the balance of attraction and repulsion in binary mixtures of dimethyl sulfoxide and n-alcohols. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1093-6	3.6	11
57	Determination of the Raman depolarization ratio in optically active samples. <i>Analytical Methods</i> , 2013 , 5, 797-800	3.2	10
56	Broadband two-color laser-induced incandescence pyrometry approach for nanoparticle characterization with improved sensitivity. <i>Applied Spectroscopy</i> , 2013 , 67, 1098-100	3.1	2
55	Molecular interactions and macroscopic effects in binary mixtures of an imidazolium ionic liquid with water, methanol, and ethanol. <i>Journal of Molecular Structure</i> , 2012 , 1018, 45-53	3.4	54
54	Laser-induced breakdown flame thermometry. <i>Combustion and Flame</i> , 2012 , 159, 3576-3582	5.3	48
53	Multiple parameter monitoring in a direct methanol fuel cell. <i>Measurement Science and Technology</i> , 2012 , 23, 045602	2	7
52	Aufnahme und Verarbeitung Raman-spektroskopischer Signale zur Berwachung von Algenkultivierungen. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 1339-1339	0.8	

51	The peculiar nature of molecular interactions between an imidazolium ionic liquid and acetone. <i>ChemPhysChem</i> , 2012 , 13, 1213-20	3.2	58
50	Attenuated total reflection infrared difference spectroscopy (ATR-IRDS) for quantitative reaction monitoring. <i>Applied Spectroscopy</i> , 2012 , 66, 685-8	3.1	1
49	Laser-induced Breakdown Spectroscopy: A Simple but Versatile Tool for Combustion Diagnostics 2012 ,		2
48	Electronic structure and normal vibrations of the 1-ethyl-3-methylimidazolium ethyl sulfate ion pair. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3551-8	2.8	68
47	Chemical Composition Monitoring in a Batch Distillation Process Using Raman Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12824-12830	3.9	11
46	Attenuated total reflection infrared (ATR-IR) spectroscopy of a water-in-oil emulsion. <i>Applied Spectroscopy</i> , 2011 , 65, 1024-8	3.1	26
45	Laser-induced plasma in methane and dimethyl ether for flame ignition and combustion diagnostics. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 229-236	1.9	47
44	Laser diagnostics and minor species detection in combustion using resonant four-wave mixing. <i>Progress in Energy and Combustion Science</i> , 2011 , 37, 525-564	33.6	89
43	Entwicklung eines Echtzeitanalyse-Systems zur Charakterisierung von Brenngasgemischen in Gasturbinenkraftwerken. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 247-253	0.8	11
42	Determination of physicochemical parameters of ionic liquids and their mixtures with solvents using laser-induced gratings. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8528-33	3.4	18
41	Spectral interferences from formaldehyde in CH PLIF flame front imaging with broadband B-X excitation. <i>Combustion and Flame</i> , 2011 , 158, 583-585	5.3	8
40	Picosecond time-resolved pure-rotational coherent anti-Stokes Raman spectroscopy in sooting flames. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 831-838	5.9	54
39	Hydrogen Bonding in Mixtures of Dimethyl Sulfoxide and Cosolvents. <i>Current Physical Chemistry</i> , 2011 , 1, 340-351	0.5	27
38	The role of the C2 position in interionic interactions of imidazolium based ionic liquids: a vibrational and NMR spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14153-61	3.6	244
37	Laser-induced breakdown spectroscopy in gases using ungated detection in combination with polarization filtering and online background correction. <i>Measurement Science and Technology</i> , 2010 , 21, 065303	2	23
36	Structure of the room-temperature ionic liquid 1-hexyl-3-methylimidazolium hydrogen sulfate: conformational isomerism. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6713-20	2.8	35
35	Dual-wavelength Raman spectroscopy approach for studying fluid-phase equilibria using a single laser. <i>Applied Spectroscopy</i> , 2010 , 64, 687-9	3.1	13
34	Detection of flame radicals using light-emitting diodes. <i>Applied Spectroscopy</i> , 2010 , 64, 1330-4	3.1	10

33	Suppression of Raman-resonant interferences in rotational coherent anti-Stokes Raman spectroscopy using time-delayed picosecond probe pulses. <i>Optics Letters</i> , 2010 , 35, 2040-2	3	27
32	Characterization of a fast gas analyzer based on Raman scattering for the analysis of synthesis gas. <i>Review of Scientific Instruments</i> , 2010 , 81, 125104	1.7	32
31	Characterization of Escherichia coli suspensions using UV/Vis/NIR absorption spectroscopy. <i>Analytical Methods</i> , 2010 , 2, 123-128	3.2	21
30	Soot and Soot Diagnostics by Laser-Induced Incandescence 2010 , 403		1
29	Laser-Induced Fluorescence 2010 , 219		
28	Numerical computations and optical diagnostics of unsteady partially premixed methane/air flames. <i>Combustion and Flame</i> , 2010 , 157, 915-924	5.3	21
27	Concentration-dependent hydrogen-bonding effects on the dimethyl sulfoxide vibrational structure in the presence of water, methanol, and ethanol. <i>ChemPhysChem</i> , 2010 , 11, 630-7	3.2	62
26	Vibrational Spectroscopy for Studying Hydrogen Bonding in Imidazolium Ionic Liquids and their Mixtures with Cosolvents 2010 , 341-352		4
25	Monitoring der chemischen Gasphasenabscheidung in einem Wirbelschichtreaktor. <i>Chemie-Ingenieur-Technik</i> , 2010 , 82, 1421-1422	0.8	
24	Raman-Untersuchung des Hochdruckeinflusses auf die Molekularstruktur. <i>Chemie-Ingenieur-Technik</i> , 2010 , 82, 1427-1428	0.8	
23	Vibrational structure of the polyunsaturated fatty acids eicosapentaenoic acid and arachidonic acid studied by infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2010 , 965, 121-124	3.4	20
22	Bestimmung des Diffusionskoeffizienten mittels Fließinjektionsanalyse. <i>Chemie-Ingenieur-Technik</i> , 2009 , 81, 441-446	0.8	1
21	OH-thermometry using laser polarization spectroscopy and laser-induced fluorescence spectroscopy in the OH A-X (1,0) band. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 828-835	2.3	19
20	Planar laser-induced fluorescence of HCO for instantaneous flame front imaging in hydrocarbon flames. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 921-928	5.9	29
19	Non-intrusive gas-phase temperature measurements inside a porous burner using dual-pump CARS. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 3123-3129	5.9	39
18	Molecular interactions in 1-ethyl-3-methylimidazolium acetate ion pair: a density functional study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10397-404	2.8	88
17	Picosecond time-resolved pure-rotational coherent anti-Stokes Raman spectroscopy for N(2) thermometry. <i>Optics Letters</i> , 2009 , 34, 3755-7	3	49
16	Determination of glucose and cellobiose dissolved in the ionic liquid 1-ethyl-3-methylimidazolium acetate using Fourier transform infrared spectroscopy. <i>Applied Spectroscopy</i> , 2009 , 63, 1041-9	3.1	25

15	Temporally Resolved Characterization of Iron Nanoparticles Using a Time-Resolved Laser Technique 2009 ,		1
14	Two-photon stimulated Raman excitation of thermal laser-induced gratings in molecular gases using broadband radiation of a single laser. <i>Optics Express</i> , 2008 , 16, 18379-89	3.3	4
13	Design and characterization of a Raman-scattering-based sensor system for temporally resolved gas analysis and its application in a gas turbine power plant. <i>Measurement Science and Technology</i> , 2008 , 19, 085408	2	100
12	Four-wave mixing with non-resonant pump and resonant probe for OH detection in flames. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 92, 287-293	1.9	7
11	Local fuel concentration measurements for mixture formation diagnostics using diffraction by laser-induced gratings in comparison to spontaneous Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 711-721	2.3	40
10	Quantitative analysis of alpha-D-glucose in an ionic liquid by using infrared spectroscopy. <i>ChemPhysChem</i> , 2008 , 9, 1317-22	3.2	47
9	Infrared spectroscopy of a Wilkinson catalyst in a room-temperature ionic liquid. <i>ChemPhysChem</i> , 2008 , 9, 2207-13	3.2	27
8	Investigation of local flame structures and statistics in partially premixed turbulent jet flames using simultaneous single-shot CH and OH planar laser-induced fluorescence imaging. <i>Combustion and Flame</i> , 2008 , 154, 802-818	5.3	67
7	Simultaneous laser-induced fluorescence and sub-Doppler polarization spectroscopy of the CH radical. <i>Optics Communications</i> , 2007 , 270, 347-352	2	26
6	Development of improved PLIF CH detection using an Alexandrite laser for single-shot investigation of turbulent and lean flames. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 727-735	5.9	45
5	Mid-infrared polarization spectroscopy of C ₂ H ₂ : Non-intrusive spatial-resolved measurements of polyatomic hydrocarbon molecules for combustion diagnostics. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 817-824	5.9	25
4	Experimental vibrational study of imidazolium-based ionic liquids: Raman and infrared spectra of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and 1-ethyl-3-methylimidazolium ethylsulfate. <i>Applied Spectroscopy</i> , 2007 , 61, 1306-11	3.1	217
3	Investigation of the combustion process in an auxiliary heating system using dual-pump CARS. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 633-640	2.3	30
2	Combined coherent anti-Stokes Raman spectroscopy and linear Raman spectroscopy for simultaneous temperature and multiple species measurements. <i>Optics Letters</i> , 2006 , 31, 1908-10	3	36
1	Time-resolved measurement of the local equivalence ratio in a gaseous propane injection process using laser-induced gratings. <i>Optics Express</i> , 2006 , 14, 12994-3000	3.3	16