

# Johannes Kiefer

## List of Publications by Citations

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176  
papers

3,790  
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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	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> , <b>2010</b> , 12, 14153-61	3.6	244
175	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> , <b>2007</b> , 61, 1306-11	3.1	217
174	Fluorescence spectroscopy of Rhodamine 6G: concentration and solvent effects. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 121, 147-51	4.4	121
173	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> , <b>2016</b> , 120, 3295-3304	3.8	105
172	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> , <b>2008</b> , 19, 085408	2	100
171	Laser diagnostics and minor species detection in combustion using resonant four-wave mixing. <i>Progress in Energy and Combustion Science</i> , <b>2011</b> , 37, 525-564	33.6	89
170	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> , <b>2015</b> , 119, 14780-9	3.4	88
169	Molecular interactions in 1-ethyl-3-methylimidazolium acetate ion pair: a density functional study. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 10397-404	2.8	88
168	Molecular structure and interactions in the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 2547-57	2.8	73
167	Electronic structure and normal vibrations of the 1-ethyl-3-methylimidazolium ethyl sulfate ion pair. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 3551-8	2.8	68
166	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> , <b>2008</b> , 154, 802-818	5.3	67
165	Concentration-dependent hydrogen-bonding effects on the dimethyl sulfoxide vibrational structure in the presence of water, methanol, and ethanol. <i>ChemPhysChem</i> , <b>2010</b> , 11, 630-7	3.2	62
164	The peculiar nature of molecular interactions between an imidazolium ionic liquid and acetone. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1213-20	3.2	58
163	Molecular Structure and Interactions in the Ionic Liquid 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 6274-86	2.8	57
162	Recent Advances in the Characterization of Gaseous and Liquid Fuels by Vibrational Spectroscopy. <i>Energies</i> , <b>2015</b> , 8, 3165-3197	3.1	55
161	Grape Seeds: Chromatographic Profile of Fatty Acids and Phenolic Compounds and Qualitative Analysis by FTIR-ATR Spectroscopy. <i>Foods</i> , <b>2019</b> , 9,	4.9	55
160	Molecular interactions and macroscopic effects in binary mixtures of an imidazolium ionic liquid with water, methanol, and ethanol. <i>Journal of Molecular Structure</i> , <b>2012</b> , 1018, 45-53	3.4	54

159	Picosecond time-resolved pure-rotational coherent anti-Stokes Raman spectroscopy in sooting flames. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 831-838	5.9	54
158	Picosecond time-resolved pure-rotational coherent anti-Stokes Raman spectroscopy for N(2) thermometry. <i>Optics Letters</i> , <b>2009</b> , 34, 3755-7	3	49
157	Screening Precursor-Solvent Combinations for LiTiO Energy Storage Material Using Flame Spray Pyrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37760-37777	9.5	48
156	Laser-induced breakdown flame thermometry. <i>Combustion and Flame</i> , <b>2012</b> , 159, 3576-3582	5.3	48
155	Laser-induced plasma in methane and dimethyl ether for flame ignition and combustion diagnostics. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 103, 229-236	1.9	47
154	Quantitative analysis of alpha-D-glucose in an ionic liquid by using infrared spectroscopy. <i>ChemPhysChem</i> , <b>2008</b> , 9, 1317-22	3.2	47
153	Influence of Water on the Chemistry and Structure of the Metal-Organic Framework Cu <sub>3</sub> (btc) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17323-17333	3.8	45
152	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> , <b>2007</b> , 31, 727-735	5.9	45
151	Advanced Laser-Based Techniques for Gas-Phase Diagnostics in Combustion and Aerospace Engineering. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 341-366	3.1	42
150	Ultrafast vibrational dynamics and energy transfer in imidazolium ionic liquids. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6136-41	16.4	41
149	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> , <b>2008</b> , 39, 711-721	2.3	40
148	Non-intrusive gas-phase temperature measurements inside a porous burner using dual-pump CARS. <i>Proceedings of the Combustion Institute</i> , <b>2009</b> , 32, 3123-3129	5.9	39
147	Characterization of gasoline/ethanol blends by infrared and excess infrared spectroscopy. <i>Fuel</i> , <b>2015</b> , 141, 136-142	7.1	36
146	Determination of gas composition in a biogas plant using a Raman-based sensor system. <i>Measurement Science and Technology</i> , <b>2014</b> , 25, 075503	2	36
145	Combined shifted-excitation Raman difference spectroscopy and support vector regression for monitoring the algal production of complex polysaccharides. <i>Analyst, The</i> , <b>2013</b> , 138, 5639-46	5	36
144	Combined coherent anti-Stokes Raman spectroscopy and linear Raman spectroscopy for simultaneous temperature and multiple species measurements. <i>Optics Letters</i> , <b>2006</b> , 31, 1908-10	3	36
143	Structure of the room-temperature ionic liquid 1-hexyl-3-methylimidazolium hydrogen sulfate: conformational isomerism. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 6713-20	2.8	35
142	Characterization of a fast gas analyzer based on Raman scattering for the analysis of synthesis gas. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 125104	1.7	32

141	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> , <b>2016</b> , 55, 8042-8048	0.2	31
140	Investigation of the combustion process in an auxiliary heating system using dual-pump CARS. <i>Journal of Raman Spectroscopy</i> , <b>2006</b> , 37, 633-640	2.3	30
139	Strategy for PLIF single-shot HCO imaging in turbulent methane/air flames. <i>Combustion and Flame</i> , <b>2014</b> , 161, 1566-1574	5.3	29
138	Planar laser-induced fluorescence of HCO for instantaneous flame front imaging in hydrocarbon flames. <i>Proceedings of the Combustion Institute</i> , <b>2009</b> , 32, 921-928	5.9	29
137	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> , <b>2017</b> , 1134, 582-590	3.4	28
136	Suppression of Raman-resonant interferences in rotational coherent anti-Stokes Raman spectroscopy using time-delayed picosecond probe pulses. <i>Optics Letters</i> , <b>2010</b> , 35, 2040-2	3	27
135	Infrared spectroscopy of a Wilkinson catalyst in a room-temperature ionic liquid. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2207-13	3.2	27
134	Hydrogen Bonding in Mixtures of Dimethyl Sulfoxide and Cosolvents. <i>Current Physical Chemistry</i> , <b>2011</b> , 1, 340-351	0.5	27
133	Shearlet-based detection of flame fronts. <i>Experiments in Fluids</i> , <b>2016</b> , 57, 1	2.5	26
132	Attenuated total reflection infrared (ATR-IR) spectroscopy of a water-in-oil emulsion. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 1024-8	3.1	26
131	Simultaneous laser-induced fluorescence and sub-Doppler polarization spectroscopy of the CH radical. <i>Optics Communications</i> , <b>2007</b> , 270, 347-352	2	26
130	Determination of glucose and cellobiose dissolved in the ionic liquid 1-ethyl-3-methylimidazolium acetate using Fourier transform infrared spectroscopy. <i>Applied Spectroscopy</i> , <b>2009</b> , 63, 1041-9	3.1	25
129	Mid-infrared polarization spectroscopy of C <sub>2</sub> H <sub>2</sub> : Non-intrusive spatial-resolved measurements of polyatomic hydrocarbon molecules for combustion diagnostics. <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 817-824	5.9	25
128	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> , <b>2020</b> , 299, 1121-1129	6.59	25
127	Vibrational signatures of anionic cyano groups in imidazolium ionic liquids. <i>Vibrational Spectroscopy</i> , <b>2017</b> , 91, 141-146	2.1	24
126	Infrared Spectroscopic Analysis of the Inorganic Deposits from Water in Domestic and Technical Heat Exchangers. <i>Energies</i> , <b>2018</b> , 11, 798	3.1	24
125	Laser-induced breakdown spectroscopy in gases using ungated detection in combination with polarization filtering and online background correction. <i>Measurement Science and Technology</i> , <b>2010</b> , 21, 065303	2	23
124	Analysis of single malt Scotch whisky using Raman spectroscopy. <i>Analytical Methods</i> , <b>2017</b> , 9, 511-518	3.2	22

123	Characterization of Escherichia coli suspensions using UV/Vis/NIR absorption spectroscopy. <i>Analytical Methods</i> , <b>2010</b> , 2, 123-128	3.2	21
122	Numerical computations and optical diagnostics of unsteady partially premixed methane/air flames. <i>Combustion and Flame</i> , <b>2010</b> , 157, 915-924	5.3	21
121	Application of Infrared Spectroscopy for Functional Compounds Evaluation in Olive Oil: A Current Snapshot. <i>Journal of Spectroscopy</i> , <b>2019</b> , 2019, 1-11	1.5	20
120	Vibrational structure of the polyunsaturated fatty acids eicosapentaenoic acid and arachidonic acid studied by infrared spectroscopy. <i>Journal of Molecular Structure</i> , <b>2010</b> , 965, 121-124	3.4	20
119	Qualitative Analysis of Traditional Italian Dishes: FTIR Approach. <i>Sustainability</i> , <b>2018</b> , 10, 4112	3.6	20
118	The effect of introducing an ether group into an imidazolium-based ionic liquid in binary mixtures with DMSO. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 15734-15742	3.6	19
117	Surface and bulk porosity mapping of polymer membranes using infrared spectroscopy. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 152-156	9.6	19
116	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> , <b>2009</b> , 40, 828-835	2.3	19
115	Determination of physicochemical parameters of ionic liquids and their mixtures with solvents using laser-induced gratings. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 8528-33	3.4	18
114	Infrared Spectroscopy of Bilberry Extract Water-in-Oil Emulsions: Sensing the Water-Oil Interface. <i>Biosensors</i> , <b>2016</b> , 6, 13	5.9	18
113	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> , <b>2018</b> , 19, 3061-3068	3.2	18
112	Intermediate phases during solid to liquid transitions in long-chain n-alkanes. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 13941-13950	3.6	17
111	The gas-phase formation of tin dioxide nanoparticles in single droplet combustion and flame spray pyrolysis. <i>Combustion and Flame</i> , <b>2020</b> , 215, 389-400	5.3	17
110	Light-emitting diode based shifted-excitation Raman difference spectroscopy (LED-SERDS). <i>Analyst, The</i> , <b>2013</b> , 138, 6258-61	5	17
109	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> , <b>2018</b> , 189, 57-65	4.4	17
108	Synthesis, conductivity, and vibrational spectroscopy of tetraphenylphosphonium bis(trifluoromethanesulfonyl)imide. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1146, 203-212	3.4	16
107	Simultaneous measurements of fuel vapor concentration and temperature in a flash-boiling propane jet using laser-induced gratings. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 1356-1362	2.3	16
106	Characterization of Nanoparticles by Solvent Infrared Spectroscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 1231-37	3.8	16

105	Time-resolved measurement of the local equivalence ratio in a gaseous propane injection process using laser-induced gratings. <i>Optics Express</i> , <b>2006</b> , 14, 12994-3000	3.3	16
104	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> , <b>2018</b> , 8, 1043	2.6	15
103	Time-resolved femtosecond CARS of the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 722-726	2.3	15
102	Probing the Evaporation Dynamics of Ethanol/Gasoline Biofuel Blends Using Single Droplet Manipulation Techniques. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 12797-804	2.8	15
101	Universal enantioselective discrimination by Raman spectroscopy. <i>Analyst, The</i> , <b>2015</b> , 140, 1787-90	5	15
100	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> , <b>2014</b> , 118, 14493-501	3.4	15
99	Chemistry of iron nitrate-based precursor solutions for spray-flame synthesis. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 24793-24801	3.6	15
98	Comparison of Raman and IR spectroscopy for quantitative analysis of gasoline/ethanol blends. <i>Fuel</i> , <b>2016</b> , 166, 488-494	7.1	14
97	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> , <b>2018</b> , 255, 413-418	6	13
96	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> , <b>2018</b> , 122, 6017-6032	3.4	13
95	Laser-induced breakdown spectroscopy in a partially premixed turbulent jet flame. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 075205	2	13
94	Dual-wavelength Raman spectroscopy approach for studying fluid-phase equilibria using a single laser. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 687-9	3.1	13
93	Quantitative enantioselective Raman spectroscopy. <i>Analyst, The</i> , <b>2015</b> , 140, 5012-8	5	12
92	Simultaneous Acquisition of the Polarized and Depolarized Raman Signal with a Single Detector. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5725-5728	7.8	11
91	Nutritional composition and dietary intake of composite dishes traditionally consumed in Italy. <i>Journal of Food Composition and Analysis</i> , <b>2019</b> , 77, 115-124	4.1	11
90	Impact of plasma dynamics on equivalence ratio measurements by laser-induced breakdown spectroscopy <b>2015</b> , 54, 4221		11
89	Ethanol droplet formation, dynamics and combustion mode in the flame of the SpraySyn-nozzle. <i>Experiments in Fluids</i> , <b>2019</b> , 60, 1	2.5	11
88	Instantaneous shifted-excitation Raman difference spectroscopy (iSERDS). <i>Journal of Raman Spectroscopy</i> , <b>2014</b> , 45, 980-983	2.3	11

87	Probing the balance of attraction and repulsion in binary mixtures of dimethyl sulfoxide and n-alcohols. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1093-6	3.6	11
86	Mid-infrared laser-induced thermal grating spectroscopy in flames. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 4515-4523	5.9	11
85	Infrared Spectroscopy for Studying Structure and Aging Effects in Rhamnolipid Biosurfactants. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 533	2.6	11
84	Molecular Solution Behaviour of an Intermediate Biofuel Feedstock: Acetone-Butanol-Ethanol (ABE). <i>ChemPhysChem</i> , <b>2015</b> , 16, 3846-58	3.2	11
83	Chemical Composition Monitoring in a Batch Distillation Process Using Raman Spectroscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 12824-12830	3.9	11
82	Entwicklung eines Echtzeitanalyse-Systems zur Charakterisierung von Brenngasgemischen in Gasturbinenkraftwerken. <i>Chemie-Ingenieur-Technik</i> , <b>2011</b> , 83, 247-253	0.8	11
81	Identification of Passion Fruit Oil Adulteration by Chemometric Analysis of FTIR Spectra. <i>Molecules</i> , <b>2019</b> , 24,	4.8	10
80	Butanol as a potential biofuel: A spectroscopic study of its blends with n-decane and diesel. <i>Fuel</i> , <b>2018</b> , 222, 312-318	7.1	10
79	Polarization-resolved high-resolution Raman spectroscopy with a light-emitting diode. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 1625-1627	2.3	10
78	Influence of carbon-coated iron nanoparticles on the Raman spectrum of liquid ethanol. <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 1124-1128	2.3	10
77	Determination of the Raman depolarization ratio in optically active samples. <i>Analytical Methods</i> , <b>2013</b> , 5, 797-800	3.2	10
76	Detection of flame radicals using light-emitting diodes. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 1330-4	3.1	10
75	Cluster Formation through Hydrogen Bond Bridges across Chloride Anions in a Hydroxyl-Functionalized Ionic Liquid. <i>ChemPhysChem</i> , <b>2019</b> , 20, 936-940	3.2	10
74	Phase-selective laser-induced breakdown spectroscopy in flame spray pyrolysis for iron oxide nanoparticle synthesis. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 1711-1718	5.9	10
73	Removal of Confined Ionic Liquid from a Metal Organic Framework by Extraction with Molecular Solvents. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10577-10586	3.8	9
72	Mid-Infrared Pumped Laser-Induced Thermal Grating Spectroscopy for Detection of Acetylene in the Visible Spectral Range. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1034-43	3.1	9
71	Comparison of existing laser-induced breakdown thermometry techniques along with a time-resolved breakdown approach. <i>Applied Optics</i> , <b>2019</b> , 58, 3950-3956	1.7	9
70	An Innovative and Integrated Food Research Approach: spectroscopy applications to milk and a case study of a milk-based dish <b>2018</b> , 5, 12-27		9

69	Advanced instantaneous shifted-excitation Raman difference spectroscopy (iSERDS) using a laser pointer. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 1049-1055	2.3	9
68	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> , <b>2019</b> , 123, 4004-4016	3.4	8
67	Molecular-Level Insights into the Microstructure of a Hydrated and Nanoconfined Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 3359-3371	3.4	8
66	Spectral interferences from formaldehyde in CH PLIF flame front imaging with broadband B-X excitation. <i>Combustion and Flame</i> , <b>2011</b> , 158, 583-585	5.3	8
65	Unsupervised Screening of Vibrational Spectra by Principal Component Analysis for Identifying Molecular Clusters. <i>ChemPhysChem</i> , <b>2018</b> , 19, 795-800	3.2	7
64	Infrared spectroscopy of the symmetric branched isomers of n-heptanol. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 244, 528-532	6	7
63	Multiple parameter monitoring in a direct methanol fuel cell. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 045602	2	7
62	Four-wave mixing with non-resonant pump and resonant probe for OH detection in flames. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 92, 287-293	1.9	7
61	Dielectric Relaxation of the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethyl Sulfate: Microwave and Far-IR Properties. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 4845-4852	3.4	6
60	Particle image velocimetry in refractive index fields of combustion flows. <i>Experiments in Fluids</i> , <b>2019</b> , 60, 1	2.5	6
59	Vapor Liquid Equilibria of 1-Ethyl-3-methylimidazolium Triflate (CmimTfO) and -Alkyl Alcohol Mixtures. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 6076-6089	3.4	6
58	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 &amp; Engineering Data</i> , <b>2019</b> , 64, 2395-2405	2.8	6
57	State-of-the-Art Infrared Applications in Drugs, Dietary Supplements, and Nutraceuticals. <i>Journal of Spectroscopy</i> , <b>2020</b> , 2020, 1-2	1.5	6
56	Enantioselective Raman spectroscopy (esR) for distinguishing between the enantiomers of 2-butanol. <i>Analyst, The</i> , <b>2018</b> , 143, 3040-3048	5	6
55	Numerical model for predicting experimental effects in enantioselective Raman spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2017</b> , 123, 1	1.9	5
54	Optical Spectroscopy for Analysis and Monitoring of Metalworking Fluids. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 1790-1797	3.1	5
53	Irreversible Damage of Polymer Membranes During Attenuated Total Reflection Infrared Analysis. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 1127-1133	3.1	5
52	Spectroscopic and computational insights into the ion-solvent interactions in hydrated aprotic and protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20791-20804	3.6	4



51	The Danger of Relying on Database Spectra. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 1272-1276	3.1	4
50	Shearlet-based edge detection: flame fronts and tidal flats <b>2015</b> ,		4
49	Automatic Low-Cost Method to Determine the Solubility of Liquid-Liquid Mixtures by Continuous-Flow Cloud Point Titration. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 1736-1740	2	4
48	Vibrational Spectroscopy for Studying Hydrogen Bonding in Imidazolium Ionic Liquids and their Mixtures with Cosolvents <b>2010</b> , 341-352		4
47	Two-photon stimulated Raman excitation of thermal laser-induced gratings in molecular gases using broadband radiation of a single laser. <i>Optics Express</i> , <b>2008</b> , 16, 18379-89	3.3	4
46	Revisiting the Liquid-Liquid Phase Behavior of $n$ -Alkanes and Ethanol. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 156-172	3.4	4
45	Dual-Wavelength Raman Fusion Spectroscopy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1764-1767	7.8	4
44	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> , <b>2017</b> , 1143, 487-488	3.4	3
43	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> , <b>2017</b> , 19, 15988-15995	3.6	3
42	Using a supercontinuum light source for instantaneous excitation-emission fluorescence mapping. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 067001	2	3
41	Liquid-Liquid Phase Behavior of Solutions of 1,3-Diethylimidazolium Bis((trifluoromethyl)sulfonyl)amide in $n$ -Alkyl Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 1345-1357	2.8	3
40	Vibrational Spectroscopy as a Promising Toolbox for Analyzing Functionalized Ceramic Membranes. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 947-955	3.1	3
39	Chemometric analysis of enantioselective Raman spectroscopy data enables enantiomeric ratio determination. <i>Analyst, The</i> , <b>2019</b> , 144, 5368-5372	5	3
38	Advances in nonlinear optical spectroscopies: a historical perspective of developments and applications presented at ECONOS. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 1111-1123	2.3	3
37	Polarization-controlled optical ring cavity (PORC) tunable pulse stretcher. <i>Optics Communications</i> , <b>2016</b> , 372, 98-105	2	3
36	Quantitative measurement of complex substances dissolved in an ionic liquid using IR spectroscopy and chemometrics. <i>TM Technisches Messen</i> , <b>2017</b> , 84, 32-37	0.7	2
35	Passion Fruit ( <i>Passiflora</i> spp.) Seed Oil <b>2019</b> , 577-603		2
34	Vapor-Liquid Equilibria of the Ionic Liquid 1-Hexyl-3-methylimidazolium Triflate (C6mimTfO) with $n$ -Alkyl Alcohols. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 5142-5157	3.9	2

33	Combined spontaneous Stokes and coherent anti-Stokes Raman scattering spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	2
32	Laser-induced fluorescence detection of hot molecular oxygen in flames using an alexandrite laser. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 1266-73	3.1	2
31	Broadband two-color laser-induced incandescence pyrometry approach for nanoparticle characterization with improved sensitivity. <i>Applied Spectroscopy</i> , <b>2013</b> , 67, 1098-100	3.1	2
30	Laser-induced Breakdown Spectroscopy: A Simple but Versatile Tool for Combustion Diagnostics <b>2012</b> ,		2
29	Principal component analysis to enhance enantioselective Raman spectroscopy. <i>Analyst, The</i> , <b>2019</b> , 144, 2080-2086	5	2
28	Misalignment Effects in Laser-Induced Grating Experiments. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 2025-2028	3.1	2
27	Rapid Analysis of Chemical Composition and Physical Properties of Gemstones Using LIBS and Chemometric Technique. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6156	2.6	2
26	Ion Pairs of 1-Butyl-3-Methylimidazolium Triflate Do Not Dissociate in Propan-1-ol: A Vibrational Spectroscopic Viewpoint. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1620	2.6	1
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24	Attenuated total reflection infrared difference spectroscopy (ATR-IRDS) for quantitative reaction monitoring. <i>Applied Spectroscopy</i> , <b>2012</b> , 66, 685-8	3.1	1
23	Soot and Soot Diagnostics by Laser-Induced Incandescence <b>2010</b> , 403		1
22	Simultaneous acquisition of absorption and fluorescence spectra of strong absorbers utilizing an evanescent supercontinuum. <i>Optics Letters</i> , <b>2016</b> , 41, 5684-5687	3	1
21	Temporally Resolved Characterization of Iron Nanoparticles Using a Time-Resolved Laser Technique <b>2009</b> ,		1
20	Thermometry by vibrational Raman spectroscopy of nitrogen: Identification and impact of spatial averaging effects. <i>Journal of Raman Spectroscopy</i> , <b>2021</b> , 52, 1582-1588	2.3	1
19	Dual-probe polarization spectroscopy as a concept for combustion diagnostics. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 1283-1286	2.3	1
18	Revealing the impact of laser-induced breakdown on a gas flow. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 027001	2	1
17	Continuous method for determining the optical rotation in chiral media with internal referencing. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 017005	2	1
16	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 &amp; Fuels</i> , <b>2021</b> , 35, 4835-4847	4.1	1

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6	Monitoring der chemischen Gasphasenabscheidung in einem Wirbelschichtreaktor. <i>Chemie-Ingenieur-Technik</i> , <b>2010</b> , 82, 1421-1422	0.8	
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