

# Ralf Ludwig

## List of Publications by Citations

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322  
papers

14,607  
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63  
h-index

108  
g-index

369  
ext. papers

15,934  
ext. citations

5.6  
avg, IF

7  
L-index

#	Paper	IF	Citations
322	Water: From Clusters to the Bulk. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1808-1827	16.4	1042
321	Efficient dehydrogenation of formic acid using an iron catalyst. <i>Science</i> , <b>2011</b> , 333, 1733-6	33.3	641
320	Selective Catalytic Hydrogenations of Nitriles, Ketones, and Aldehydes by Well-Defined Manganese Pincer Complexes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8809-14	16.4	375
319	Strong, localized, and directional hydrogen bonds fluidize ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8731-4	16.4	340
318	Molecular dynamic simulations of ionic liquids: a reliable description of structure, thermodynamics and dynamics. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2464-70	3.2	316
317	Anti-inflammatory activity of IgG1 mediated by Fc galactosylation and association of Fc $\gamma$ RIIB and dectin-1. <i>Nature Medicine</i> , <b>2012</b> , 18, 1401-6	50.5	311
316	Iron-catalyzed hydrogen production from formic acid. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 8924-34	16.4	297
315	Hydrogen bonding in protic ionic liquids: reminiscent of water. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 3184-6	16.4	273
314	Ion-pair formation in the ionic liquid 1-ethyl-3-methylimidazolium bis(triflyl)imide as a function of temperature and concentration. <i>ChemPhysChem</i> , <b>2006</b> , 7, 1944-9	3.2	270
313	The association of water in ionic liquids: a reliable measure of polarity. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 3697-702	16.4	247
312	The influence of hydrogen bonding on the physical properties of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14064-75	3.6	243
311	Calixarenes in analytical and separation chemistry. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2000</b> , 367, 103-28		224
310	Spectroscopic evidence for an enhanced anion-cation interaction from hydrogen bonding in pure imidazolium ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 449-53	16.4	223
309	The cation-anion interaction in ionic liquids probed by far-infrared spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3830-4	16.4	223
308	The potential role of hydrogen bonding in aprotic and protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 8790-4	3.6	194
307	Probing molecular interaction in ionic liquids by low frequency spectroscopy: Coulomb energy, hydrogen bonding and dispersion forces. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21903-29	3.6	172
306	Imidazolium salt ion pairs in solution. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8324-35	4.8	137

305	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 559-562	16.4	129
304	On the validity of Stokes-Einstein and Stokes-Einstein-Debye relations in ionic liquids and ionic-liquid mixtures. <i>ChemPhysChem</i> , <b>2008</b> , 9, 1851-8	3.2	127
303	Analyzing the interaction energies between cation and anion in ionic liquids: The subtle balance between Coulomb forces and hydrogen bonding. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 192, 94-102	6	123
302	Ionic liquids: dissecting the enthalpies of vaporization. <i>ChemPhysChem</i> , <b>2008</b> , 9, 549-55	3.2	117
301	PI3K $\beta$ plays a critical role in neutrophil activation by immune complexes. <i>Science Signaling</i> , <b>2011</b> , 4, ra23	8.8	115
300	Experimental and theoretical determination of the temperature dependence of deuterium and oxygen quadrupole coupling constants of liquid water. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 6941-6950 <sup>3.9</sup>		114
299	Do we understand the volatility of ionic liquids?. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 6582-4	16.4	107
298	The influence of hydrogen-bond defects on the properties of ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6661-5	16.4	104
297	Base-free hydrogen generation from methanol using a bi-catalytic system. <i>Chemical Communications</i> , <b>2014</b> , 50, 707-9	5.8	101
296	Wasser: von Clustern in die Flüssigkeit. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 1856-1876	3.6	101
295	The structure of liquid methanol. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1369-75	3.2	100
294	Spectroscopic Evidence for Clusters of Like-Charged Ions in Ionic Liquids Stabilized by Cooperative Hydrogen Bonding. <i>ChemPhysChem</i> , <b>2016</b> , 17, 458-62	3.2	100
293	Quantum Cluster Equilibrium Theory of Liquids: Temperature Dependence of Hydrogen Bonding in Liquid N-Methylacetamide Studied by IR Spectra. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 9312-9318	3.4	99
292	Photocatalytic hydrogen generation from water with iron carbonyl phosphine complexes: improved water reduction catalysts and mechanistic insights. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 6425-36	4.8	98
291	The importance of hydrogen bonds for the structure of ionic liquids: single-crystal X-ray diffraction and transmission and attenuated total reflection spectroscopy in the terahertz region. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 10221-4	16.4	98
290	ortho-Metalation of iron(0) tribenzylphosphine complexes: homogeneous catalysts for the generation of hydrogen from formic acid. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8993-6	16.4	97
289	IR and NMR properties of ionic liquids: do they tell us the same thing?. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2265-9	3.2	95
288	Low-frequency vibrational modes of protic molten salts and ionic liquids: detecting and quantifying hydrogen bonds. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6236-40	16.4	92

- 287 Temperature dependence of the solubility of carbon dioxide in imidazolium-based ionic liquids. *Journal of Physical Chemistry B*, **2009**, 113, 12727-35 3.4 92
- 286 Dissecting anion-cation interaction energies in protic ionic liquids. *Angewandte Chemie - International Edition*, **2013**, 52, 2368-72 16.4 90
- 285 Theoretical study of hydrogen bonding in liquid and gaseous N-methylformamide. *Journal of Chemical Physics*, **1997**, 107, 499-507 3.9 89
- 284 Hydrogen bonding in ionic liquids probed by linear and nonlinear vibrational spectroscopy. *New Journal of Physics*, **2012**, 14, 105026 2.9 87
- 283 Cation-cation clusters in ionic liquids: Cooperative hydrogen bonding overcomes like-charge repulsion. *Scientific Reports*, **2015**, 5, 17505 4.9 86
- 282 NMR relaxation studies in water-alcohol mixtures: the water-rich region. *Chemical Physics*, **1995**, 195, 329-337 2.3 86
- 281 Calculation of clathrate-like water clusters including H<sub>2</sub>O-buckminsterfullerene. *Angewandte Chemie - International Edition*, **2005**, 44, 811-5 16.4 83
- 280 Experimental and theoretical studies of hydrogen bonding in neat, liquid formamide. *Journal of Chemical Physics*, **1995**, 102, 5118-5125 3.9 80
- 279 Ion speciation of protic ionic liquids in water: transition from contact to solvent-separated ion pairs. *Angewandte Chemie - International Edition*, **2013**, 52, 2990-4 16.4 79
- 278 Therapeutic use of heparin beyond anticoagulation. *Current Drug Discovery Technologies*, **2009**, 6, 281-9 1.5 79
- 277 On the Tautomerism of Secondary Phosphane Oxides. *European Journal of Organic Chemistry*, **2010**, 2010, 2733-2741 3.2 79
- 276 The ability of different forms of heparins to suppress P-selectin function in vitro correlates to their inhibitory capacity on bloodborne metastasis in vivo. *Thrombosis and Haemostasis*, **2006**, 95, 535-40 7 79
- 275 Pressure and salt effects in simulated water: two sides of the same coin?. *Angewandte Chemie - International Edition*, **2007**, 46, 8907-11 16.4 76
- 274 The effect of hydrogen bonding on the thermodynamic and spectroscopic properties of molecular clusters and liquids. *Physical Chemistry Chemical Physics*, **2002**, 4, 5481-5487 3.6 76
- 273 A molecularly defined iron-catalyst for the selective hydrogenation of  $\alpha,\beta$ -unsaturated aldehydes. *Chemistry - A European Journal*, **2013**, 19, 7701-7 4.8 72
- 272 Controlling the subtle energy balance in protic ionic liquids: dispersion forces compete with hydrogen bonds. *Angewandte Chemie - International Edition*, **2015**, 54, 2792-5 16.4 71
- 271 Death and Rebirth: Photocatalytic Hydrogen Production by a Self-Organizing Copper/Iron System. *ACS Catalysis*, **2014**, 4, 1845-1849 13.1 71
- 270 Specific ion effects on water structure and dynamics beyond the first hydration shell. *Angewandte Chemie - International Edition*, **2011**, 50, 352-3 16.4 71

269	Comment on "New interpretation of the CH stretching vibrations in imidazolium-based ionic liquids". <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 685-6; author reply 687-8	2.8	69
268	Volatile times for the very first ionic liquid: understanding the vapor pressures and enthalpies of vaporization of ethylammonium nitrate. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11640-5	4.8	68
267	Quantum cluster equilibrium theory of liquids: Freezing of QCE/3-21G water to tetrakaidecahedral Bucky-ice. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 508-515	3.9	67
266	When Like Charged Ions Attract in Ionic Liquids: Controlling the Formation of Cationic Clusters by the Interaction Strength of the Counterions. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 496-500	16.4	66
265	Quantum cluster equilibrium theory of liquids: molecular clusters and thermodynamics of liquid ethanol. <i>Molecular Physics</i> , <b>1999</b> , 97, 465-477	1.7	66
264	Thermodynamic properties of ionic liquids-a cluster approach. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 4333-9	3.6	65
263	New insight into the transport mechanism of hydrated hydroxide ions in water. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 258-60	16.4	65
262	Phosphides or nitrides for better NLO properties? A detailed comparative study of alkali metal doped nano-cages. <i>Materials Research Bulletin</i> , <b>2017</b> , 92, 113-122	5.1	64
261	Hydrogen bonding in a mixture of protic ionic liquids: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8431-40	3.6	63
260	Molecular reorientation in ionic liquids: A comparative dielectric and magnetic relaxation study. <i>Chemical Physics Letters</i> , <b>2007</b> , 439, 323-326	2.5	63
259	Combined THz, FIR and Raman spectroscopy studies of imidazolium-based ionic liquids covering the frequency range 2-300 cm <sup>-1</sup> . <i>ChemPhysChem</i> , <b>2010</b> , 11, 349-53	3.2	62
258	Formation of water clusters in a hydrophobic solvent. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 4904-8	16.4	60
257	Copper-Based Photosensitisers in Water Reduction: A More Efficient In Situ Formed System and Improved Mechanistic Understanding. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 1233-8	4.8	60
256	Starke, lokalisierte und gerichtete H-Brücken machen ionische Flüssigkeiten beweglicher. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 8859-8862	3.6	59
255	Structure of Liquid N-Methylacetamide: Temperature Dependence of NMR Chemical Shifts and Quadrupole Coupling Constants. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 8861-8870	2.8	58
254	Remarkable nonlinear optical response of alkali metal doped aluminum phosphide and boron phosphide nanoclusters. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 271, 51-64	6	57
253	Kinetics and mechanism of antibacterial activity and cytotoxicity of Ag-RGO nanocomposite. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 159, 366-374	6	56
252	Spectroscopic evidence of 'jumping and pecking' of cholinium and H-bond enhanced cation-cation interaction in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 30978-82	3.6	54

251	Insights into the mechanism of photocatalytic water reduction by DFT-supported in situ EPR/Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10246-50	16.4	53
250	Estimating enthalpies of vaporization of imidazolium-based ionic liquids from far-infrared measurements. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1623-6	3.2	53
249	Cooperative hydrogen bonding in amides and peptides. <i>Journal of Molecular Liquids</i> , <b>2000</b> , 84, 65-75	6	53
248	Equilibrium of contact and solvent-separated ion pairs in mixtures of protic ionic liquids and molecular solvents controlled by polarity. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12439-42	16.4	51
247	Structure-property relationships in ionic liquids: a study of the anion dependence in vaporization enthalpies of imidazolium-based ionic liquids. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1868-76	3.2	51
246	An elemental mercury diffusion coefficient for natural waters determined by molecular dynamics simulation. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3183-6	10.3	50
245	Selective Earth-Abundant System for CO <sub>2</sub> Reduction: Comparing Photo- and Electrocatalytic Processes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2091-2100	13.1	50
244	Iron-catalyzed photoreduction of carbon dioxide to synthesis gas. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 3623-3630	5.5	49
243	What far-infrared spectra can contribute to the development of force fields for ionic liquids used in molecular dynamics simulations. <i>ChemPhysChem</i> , <b>2009</b> , 10, 1181-6	3.2	49
242	The anion dependence of the interaction strength between ions in imidazolium-based ionic liquids probed by far-infrared spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 9507-11	3.4	48
241	Exploring between the extremes: conversion-dependent kinetics of phosphite-modified hydroformylation catalysis. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8780-94	4.8	47
240	Temperature dependence of hydrogen bonding in neat, liquid formamide. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 3636-3642	3.9	47
239	NMR relaxation in ethanol and propanol and in their binary mixtures with carbon tetrachloride. <i>Molecular Physics</i> , <b>1994</b> , 82, 313-323	1.7	47
238	Water: From Clusters to the Bulk. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1808-1827	16.4	47
237	Highly active and selective photochemical reduction of CO <sub>2</sub> to CO using molecular-defined cyclopentadienone iron complexes. <i>Chemical Communications</i> , <b>2016</b> , 52, 8393-6	5.8	46
236	Wasserstoffbrücken in protischen ionischen Flüssigkeiten – Ähnlichkeiten mit Wasser. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 3230-3233	3.6	46
235	Spektroskopischer Nachweis einer verstärkten Anion-Kation- Wechselwirkung durch H-Brücken in reinen ionischen Flüssigkeiten auf Imidazoliumbasis. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 459-463	3.6	46
234	Fern-IR-spektroskopische Charakterisierung der Wechselwirkung zwischen Kationen und Anionen in ionischen Flüssigkeiten. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 3890-3894	3.6	46

233	Molecular Dynamics in Lower Alcohols. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>1995</b> , 189, 19-27	3.1	45
232	Temperature dependence of hydrogen bonding in alcohols. <i>Journal of Molecular Liquids</i> , <b>2000</b> , 85, 105-125		44
231	Molecular Reorientation in Liquid Methanol. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>1991</b> , 46, 89-94	1.4	44
230	tert-Butylphosphonic acid: from the bulk to the gas phase. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 837-498		43
229	Dispersion and Hydrogen Bonding Rule: Why the Vaporization Enthalpies of Aprotic Ionic Liquids Are Significantly Larger than those of Protic Ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11682-6	16.4	43
228	Base-free non-noble-metal-catalyzed hydrogen generation from formic acid: scope and mechanistic insights. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 13589-602	4.8	42
227	Non-ideal mixing behaviour of hydrogen bonding in mixtures of protic ionic liquids. <i>ChemPhysChem</i> , <b>2015</b> , 16, 299-304	3.2	41
226	A simple geometrical explanation for the occurrence of specific large aggregated ions in some protic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15419-22	3.4	41
225	A Comparative In Situ HP-FTIR Spectroscopic Study of Bi- and Monodentate Phosphite-Modified Hydroformylation. <i>ChemCatChem</i> , <b>2010</b> , 2, 287-295	5.2	41
224	Cationic clustering influences the phase behaviour of ionic liquids. <i>Scientific Reports</i> , <b>2018</b> , 8, 14753	4.9	41
223	The effect of dispersion forces on the interaction energies and far infrared spectra of protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13790-3	3.6	40
222	Microheterogeneities in ionic-liquid-methanol solutions studied by FTIR spectroscopy, DFT calculations and molecular dynamics simulations. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1708-17	3.2	40
221	Structural Motifs in Cold Ternary Ion Complexes of Hydroxyl-Functionalized Ionic Liquids: Isolating the Role of Cation-Cation Interactions. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2979-2984	6.4	40
220	Mechanistic Study on the Addition of CO <sub>2</sub> to Epoxides Catalyzed by Ammonium and Phosphonium Salts: A Combined Spectroscopic and Kinetic Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10778-10788	8.3	39
219	Die Assoziation von Wasser in ionischen Flüssigkeiten: eine verlässliche Sonde zur Bestimmung der Polarität. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 3780-3785	3.6	39
218	Hydrogen bonding in a sterically hindered alcohol. <i>Journal of Molecular Liquids</i> , <b>2002</b> , 98-99, 163-171	6	38
217	Hexamers: from covalently bound organic structures to hydrogen bonded water clusters. <i>ChemPhysChem</i> , <b>2000</b> , 1, 53-6	3.2	38
216	Quantum cluster equilibrium theory of liquids: temperature dependent chemical shifts, quadrupole coupling constants and vibrational frequencies in liquid ethanol. <i>Molecular Physics</i> , <b>1999</b> , 97, 479-486	1.7	38

215	Temperature Dependence of the Deuteron and Oxygen Quadrupole Coupling Constants of Water in the System Water/Dimethyl Sulfoxide. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 6684-6687		38
214	Spectroscopic Evidence for an Attractive Cation-Cation Interaction in Hydroxy-Functionalized Ionic Liquids: A Hydrogen-Bonded Chain-like Trimer. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15364-15368	16.4	38
213	Collective contributions to the dielectric relaxation of hydrogen-bonded liquids. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 11692-7	3.9	37
212	Structure and dynamics of water confined in dimethyl sulfoxide. <i>ChemPhysChem</i> , <b>2006</b> , 7, 266-72	3.2	36
211	In Spite of the Chemist's Belief: Carbonic Acid Is Surprisingly Stable. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 1421-1423	16.4	36
210	Ion pairing in protic ionic liquids probed by far-infrared spectroscopy: effects of solvent polarity and temperature. <i>ChemPhysChem</i> , <b>2014</b> , 15, 2604-9	3.2	35
209	How does water bind to metal surfaces: hydrogen atoms up or hydrogen atoms down?. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3458-60	16.4	35
208	Revisiting imidazolium based ionic liquids: Effect of the conformation bias of the [NTf] anion studied by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 193828	3.9	34
207	Hydronium Ion Complex of 18-Crown-6: Theory Confirms Three Normal Linear Hydrogen Bonds. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 11463-11468	2.8	33
206	Raman spectroscopic investigation of small matrix-isolated lithium clusters. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 6957-6963	3.9	33
205	Model-free multivariate curve resolution combined with model-based kinetics: algorithm and applications. <i>Journal of Chemometrics</i> , <b>2012</b> , 26, 538-548	1.6	32
204	The importance of tetrahedrally coordinated molecules for the explanation of liquid water properties. <i>ChemPhysChem</i> , <b>2007</b> , 8, 938-43	3.2	32
203	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 574-577	3.6	31
202	The Double-Faced Nature of Hydrogen Bonding in Hydroxy-Functionalized Ionic Liquids Shown by Neutron Diffraction and Molecular Dynamics Simulations. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12887-12892	16.4	30
201	Light to Hydrogen: Photocatalytic Hydrogen Generation from Water with Molecularly-Defined Iron Complexes. <i>Inorganics</i> , <b>2017</b> , 5, 14	2.9	30
200	Comparison of force fields on the basis of various model approaches--how to design the best model for the [CnMIM][NTf2] family of ionic liquids. <i>ChemPhysChem</i> , <b>2013</b> , 14, 3368-74	3.2	30
199	Isotopic quantum effects in liquid methanol. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1376-80	3.2	30
198	From Intramolecularly [4 + 1]- and [4 + 2]-Coordinated Tri- and Tetraorganosilanes to Hypercoordinated Benzoxasilaphospholes <i>Organometallics</i> , <b>2001</b> , 20, 4654-4663	3.8	30



197	Transport properties of graphene quantum dots in glycerol and distilled water. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 241, 831-838	6	29
196	The effect of neutral ion aggregate formation on the electrical conductivity of an ionic liquid and its mixtures with chloroform. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1748-52	3.2	29
195	Limiting diffusion coefficients of ionic liquids in water and methanol: a combined experimental and molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 3268-73	3.6	29
194	Die Bedeutung von Wasserstoffbrücken für die Struktur ionischer Flüssigkeiten □ Einkristall-Röntgenstrukturanalyse sowie Transmissions- und ATR-Spektroskopie im Terahertz-Bereich. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 10419-10423	3.6	29
193	Management of cutaneous type IV hypersensitivity reactions induced by heparin. <i>Thrombosis and Haemostasis</i> , <b>2006</b> , 96, 611-617	7	29
192	Effective O-17 quadrupole moments for the calibrated computation of quadrupole coupling parameters at different levels of theory. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 8223-8230	3.9	29
191	Hydrogen Bonding Between Ions of Like Charge in Ionic Liquids Characterized by NMR Deuteron Quadrupole Coupling Constants-Comparison with Salt Bridges and Molecular Systems. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17863-17871	16.4	28
190	Site Selective Synthesis of Pentaarylpyridines via Multiple Suzuki-Miyaura Cross-Coupling Reactions. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 1987-2008	5.6	28
189	Investigation into the Equilibrium of Iridium Catalysts for the Hydroformylation of Olefins by Combining In Situ High-Pressure FTIR and NMR Spectroscopy. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2097-2108	13.1	28
188	Characterization of Doubly Ionic Hydrogen Bonds in Protic Ionic Liquids by NMR Deuteron Quadrupole Coupling Constants: Differences to H-bonds in Amides, Peptides, and Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14310-14314	16.4	28
187	Correlations between structural, NMR and IR spectroscopic properties of N-methylacetamide. <i>Magnetic Resonance in Chemistry</i> , <b>2001</b> , 39, S127-S134	2.1	28
186	Der Einfluss von Wasserstoffbrückendefekten auf die Eigenschaften ionischer Flüssigkeiten. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6791-6795	3.6	27
185	N-Methylacetamide/water clusters in a hydrophobic solvent. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1867-1873	3.6	27
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