

# Ralf Ludwig

## 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.

322  
papers

14,607  
citations

63  
h-index

108  
g-index

369  
ext. papers

15,934  
ext. citations

5.6  
avg, IF

7  
L-index

#	Paper	IF	Citations
3 <sup>22</sup>	Computational investigation of a covalent triazine framework (CTF-0) as an efficient electrochemical sensor.. <i>RSC Advances</i> , <b>2022</b> , 12, 3909-3923	3.7	3
3 <sup>21</sup>	Structure, hydrogen bond dynamics and phase transition in a model ionic liquid electrolyte.. <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> ,	3.6	2
3 <sup>20</sup>	Why Do Liquids Mix? The Mixing of Protic Ionic Liquids Sharing the Same Cation Is Apparently Driven by Enthalpy, Not Entropy.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3556-3561	6.4	0
3 <sup>19</sup>	Non-covalent interactions in molecular systems: thermodynamic evaluation of the hydrogen bond strength in aminoalcohols. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25226-25238	3.6	0
3 <sup>18</sup>	Kinetics of Hydrogen Bonding between Ions with Opposite and Like Charges in Hydroxyl-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 281-286	3.4	5
3 <sup>17</sup>	The co-crystal of copper(II) phenanthroline chloride complex hydrate with p-aminobenzoic acid: structure, cytotoxicity, thermal analysis, and DFT calculation. <i>Monatshefte Für Chemie</i> , <b>2021</b> , 152, 323-336 <sup>1.4</sup>	1.4	3
3 <sup>16</sup>	Balance Between Contact and Solvent-Separated Ion Pairs in Mixtures of the Protic Ionic Liquid [EtNH][MeSO] with Water Controlled by Water Content and Temperature. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4476-4488	3.4	3
3 <sup>15</sup>	Nonlinear optical response of first-row transition metal doped Al <sub>12</sub> P <sub>12</sub> nanoclusters; a first-principles study. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 151, 109914	3.9	8
3 <sup>14</sup>	Structural similarity of an ionic liquid and the mixture of the neutral molecules. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 329, 115589	6	4
3 <sup>13</sup>	Hydrogen Bonds between Ions of Opposite and Like Charge in Hydroxyl-Functionalized Ionic Liquids: an Exhaustive Examination of the Interplay between Global and Local Motions and Intermolecular Hydrogen Bond Lifetimes and Kinetics. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 5132-5144	3.4	3
3 <sup>12</sup>	Inorganic electrides of alkali metal doped ZnO nanocage with excellent nonlinear optical response. <i>Journal of Molecular Graphics and Modelling</i> , <b>2021</b> , 106, 107935	2.8	5
3 <sup>11</sup>	Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen species production, electrochemical characterization and density functional theory. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 1068-1081	3.6	3
3 <sup>10</sup>	Rotational correlation times, diffusion coefficients and quadrupolar peaks of the protic ionic liquid ethylammonium nitrate by means of <sup>1</sup> H fast field cycling NMR relaxometry. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 322, 114983	6	9
3 <sup>09</sup>	First row transition metals decorated boron phosphide nanoclusters as nonlinear optical materials with high thermodynamic stability and enhanced electronic properties; A detailed quantum chemical study. <i>Optics and Laser Technology</i> , <b>2021</b> , 134, 106570	4.2	11
3 <sup>08</sup>	Towards operando IR- and UV-vis-Spectro-Electrochemistry: A Comprehensive Matrix Factorisation Study on Sensitive and Transient Molybdenum and Tungsten Mono-Dithiolene Complexes**. <i>Chemistry Methods</i> , <b>2021</b> , 1, 22-35		3
3 <sup>07</sup>	Determination of the dispersion forces in the gas phase structures of ionic liquids using exclusively thermodynamic methods. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 7398-7406	3.6	1
3 <sup>06</sup>	Insights into the translational and rotational dynamics of cations and anions in protic ionic liquids by means of NMR fast-field-cycling relaxometry. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 2663-2673 <sup>2.6</sup>	2.6	6

305	Quasi-Universal Solubility Behavior of Light Gases in Imidazolium-Based Ionic Liquids with Varying Anions: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 1647-1659	3.4	4
304	Three in One: The Versatility of Hydrogen Bonding Interaction in Halide Salts with Hydroxy-Functionalized Pyridinium Cations. <i>ChemPhysChem</i> , <b>2021</b> , 22, 1850-1856	3.2	2
303	Towards thermodynamically stable anionic dimers with anti-electrostatic hydrogen bonds overcoming like-charge repulsion. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 116882	6	0
302	Quantification and understanding of non-covalent interactions in molecular and ionic systems: Dispersion interactions and hydrogen bonding analysed by thermodynamic methods. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 343, 117547	6	1
301	Clusters of Hydroxyl-Functionalized Cations Stabilized by Cooperative Hydrogen Bonds: The Role of Polarizability and Alkyl Chain Length. <i>Molecules</i> , <b>2020</b> , 25,	4.8	5
300	Counting cations involved in cationic clusters of hydroxy-functionalized ionic liquids by means of infrared and solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 6861-6867	3.6	9
299	Facile Synthesis of a Stable Side-on Phosphinyne Complex by Redox Driven Intramolecular Cyclisation. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 11492-11502	4.8	3
298	Designing alkoxy-induced based high performance near infrared sensitive small molecule acceptors for organic solar cells. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 305, 112829	6	25
297	Understanding the Nature of Nuclear Magnetic Resonance Relaxation by Means of Fast-Field-Cycling Relaxometry and Molecular Dynamics Simulations-The Validity of Relaxation Models. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2165-2170	6.4	12
296	Controlling "like-likes-like" charge attraction in hydroxy-functionalized ionic liquids by polarizability of the cations, interaction strength of the anions and varying alkyl chain length. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2763-2774	3.6	22
295	Chain Length Dependence of Hydrogen Bond Linkages between Cationic Constituents in Hydroxy-Functionalized Ionic Liquids: Tracking Bulk Behavior to the Molecular Level with Cold Cluster Ion Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 683-688	6.4	10
294	Effect of Hydrogen Bonding between Ions of Like Charge on the Boundary Layer Friction of Hydroxy-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3905-3910	6.4	9
293	Dissecting intermolecular interactions in the condensed phase of ibuprofen and related compounds: the specific role and quantification of hydrogen bonding and dispersion forces. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 4896-4904	3.6	5
292	Comparing the void space and long-range structure of an ionic liquid with a neutral mixture of similar sized molecules. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 299, 112121	6	6
291	Freezing the Motion in Hydroxy-Functionalized Ionic Liquids-Temperature Dependent NMR Deuteron Quadrupole Coupling Constants for Two Types of Hydrogen Bonds Far below the Glass Transition. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6000-6006	6.4	6
290	Metal/Metal Redox Isomerism Governed by Configuration. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 16811-16817	4.8	4
289	Cyclic Octamer of Hydroxyl-functionalized Cations with Net Charge $Q=+8e$ Kinetically Stabilized by a 'Molecular Island' of Cooperative Hydrogen Bonds. <i>ChemPhysChem</i> , <b>2020</b> , 21, 2411-2416	3.2	1
288	Probing relaxation models by means of Fast Field-Cycling relaxometry, NMR spectroscopy and molecular dynamics simulations: Detailed insight into the translational and rotational dynamics of a protic ionic liquid. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114207	6	8

287	Isolating the role of hydrogen bonding in hydroxyl-functionalized ionic liquids by means of vaporization enthalpies, infrared spectroscopy and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20308-20314	3.6	7
286	When hydrogen bonding overcomes Coulomb repulsion: from kinetic to thermodynamic stability of cationic dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8215-8220	3.6	25
285	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
284	The Effect of Additives on the Viscosity and Dissolution of Cellulose in Tetrabutylphosphonium Hydroxide. <i>ChemSusChem</i> , <b>2019</b> , 12, 3458-3462	8.3	7
283	Die zweigesichtige Natur der Wasserstoffbrückenbindung in hydroxylfunktionalisierten ionischen Flüssigkeiten, offenbart durch Neutronendiffraktometrie und Molekulardynamik-Simulation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13019-13024	3.6	3
282	Dissecting the Vaporization Enthalpies of Ionic Liquids by Exclusively Experimental Methods: Coulomb Interaction, Hydrogen Bonding, and Dispersion Forces. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8589-8592	16.4	11
281	Zerlegung der Verdampfungsenthalpien ionischer Flüssigkeiten durch rein experimentelle Methoden: Coulomb-Wechselwirkung, Wasserstoffbrücken und Dispersionskräfte. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8679	3.6	
280	Isolation, characterization and DFT studies of epoxy ring containing new withanolides from <i>Withania coagulans</i> Dunal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 217, 113-121	4.4	3
279	Photo-tunable linear and nonlinear optical response of cyclophanediene-dihydropyrene photoswitches. <i>Journal of Molecular Graphics and Modelling</i> , <b>2019</b> , 88, 261-272	2.8	5
278	Synthesis, X-ray crystal structure and spin polarized DFT study of high spin Mn based metal-organic framework. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1175, 439-444	3.4	5
277	Cooperatively enhanced hydrogen bonds in ionic liquids: closing the loop with molecular mimics of hydroxy-functionalized cations. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 18092-18098	3.6	21
276	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</i> , <b>2019</b> , 131, 18027-18035	3.6	3
275	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
274	Influence of Hydrogen Bonding between Ions of Like Charge on the Ionic Liquid Interfacial Structure at a Mica Surface. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7368-7373	6.4	15
273	Simultaneous determination of deuteron quadrupole coupling constants and rotational correlation times: the model case of hydrogen bonded ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 25597-25605	3.6	4
272	Mechanistic Insights into the Electrochemical Reduction of CO <sub>2</sub> Catalyzed by Iron Cyclopentadienone Complexes. <i>Organometallics</i> , <b>2019</b> , 38, 1236-1247	3.8	10
271	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
270	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

269	Rotational and translational dynamics and their relation to hydrogen bond lifetimes in an ionic liquid by means of NMR relaxation time experiments and molecular dynamics simulation. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 193843	3.9	18
268	Like-likes-Like: Cooperative Hydrogen Bonding Overcomes Coulomb Repulsion in Cationic Clusters with Net Charges up to $Q=+6e$ . <i>ChemPhysChem</i> , <b>2018</b> , 19, 1691-1695	3.2	24
267	Dynamical heterogeneities in ionic liquids as revealed from deuteron NMR. <i>Chemical Communications</i> , <b>2018</b> , 54, 3098-3101	5.8	15
266	The influence of like-charge attraction on the structure and dynamics of ionic liquids: NMR chemical shifts, quadrupole coupling constants, rotational correlation times and failure of Stokes-Einstein-Debye. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5617-5625	3.6	19
265	Hydrogen bonding in protic ionic liquids: structural correlations, vibrational spectroscopy, and rotational dynamics of liquid ethylammonium nitrate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 034002	1.3	19
264	Acridinedione as selective fluoride ion chemosensor: a detailed spectroscopic and quantum mechanical investigation.. <i>RSC Advances</i> , <b>2018</b> , 8, 1993-2003	3.7	15
263	A chemometric study in the area of feasible solution of an acid-base titration of -methyl-6-oxyquinolone.. <i>RSC Advances</i> , <b>2018</b> , 8, 9922-9932	3.7	
262	Novel acridine-based thiosemicarbazones as 'turn-on' chemosensors for selective recognition of fluoride anion: a spectroscopic and theoretical study. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180646	3.3	22
261	Receptor-Spacer-Fluorophore Based Coumarin-Thiosemicarbazones as Anion Chemosensors with Turn on Response: Spectroscopic and Computational (DFT) Studies. <i>ChemistrySelect</i> , <b>2018</b> , 3, 7633-7642	1.8	11
260	Diferrate [Fe (CO) (ECO){EP(aryl) }] as Self-Assembling Iron/Phosphor-Based Catalyst for the Hydrogen Evolution Reaction in Photocatalytic Proton Reduction-Spectroscopic Insights. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 16052-16065	4.8	8
259	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
258	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
257	NMR Studies of Protic Ionic Liquids. <i>Annual Reports on NMR Spectroscopy</i> , <b>2018</b> , 147-190	1.7	5
256	Spektroskopischer Nachweis einer attraktiven Kation-Kation- Wechselwirkung in OH-funktionalisierten ionischen Flüssigkeiten: ein H-Brücken-gebundenes kettenförmiges Trimer. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15590-15594	3.6	8
255	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
254	Cationic clustering influences the phase behaviour of ionic liquids. <i>Scientific Reports</i> , <b>2018</b> , 8, 14753	4.9	41
253	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
252	Studying Interaction, Ion-Pair Formation, and Mixing Behavior of Protic Ionic Liquids by Means of Far-Infrared Spectroscopy <b>2018</b> , 527-567		1

251	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 574-577	3.6	31
250	Electrical Energy Storage by a Magnesium-Copper-Sulfide Rechargeable Battery. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A770-A774	3.9	7
249	The Relation between Vaporization Enthalpies and Viscosities: Eyring's Theory Applied to Selected Ionic Liquids. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1242-1246	3.2	9
248	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
247	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
246	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
245	Large Stokes Shift Ionic-Liquid Dye. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8564-8567	16.4	7
244	Ionische Flüssigkeit mit eingebautem Farbstoff zeigt große Stokes-Verschiebung. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8686-8690	3.6	
243	A simple guiding principle for the temperature dependence of the solubility of light gases in imidazolium-based ionic liquids derived from molecular simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1770-1780	3.6	16
242	Anziehung gleich geladener Ionen in ionischen Flüssigkeiten: Kontrolle der Bildung kationischer Cluster über die Wechselwirkungsstärke der Gegenionen. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 510-514	3.6	19
241	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
240	Improving antibacterial activity of phosphomolybdic acid using graphene. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 188, 58-67	4.4	24
239	Charakterisierung von Wasserstoffbrücken zwischen Ionen in protischen ionischen Flüssigkeiten mittels NMR-Deuteron-Quadrupol-Kopplungskonstanten (Unterschiede zu H-Brücken in Amiden, Peptiden und Proteinen). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14500-14505	3.6	5
238	Light to Hydrogen: Photocatalytic Hydrogen Generation from Water with Molecularly-Defined Iron Complexes. <i>Inorganics</i> , <b>2017</b> , 5, 14	2.9	30
237	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
236	Predicting the Ionic Product of Water. <i>Scientific Reports</i> , <b>2017</b> , 7, 10244	4.9	23
235	Utilization of the dye N-methyl-6-oxyquinolone as an optical acidometer in molecular solvents and protic ionic liquids. <i>Chemical Communications</i> , <b>2017</b> , 53, 10761-10764	5.8	7
234	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



233	Controlling the kinetic and thermodynamic stability of cationic clusters by the addition of molecules or counterions. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 18854-18862	3.6	26
232	Dispersion und Wasserstoffbrücken bestimmend – Warum die Verdampfungsenthalpien von aprotischen größer als die von protischen ionischen Flüssigkeiten sind. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 11856-11860	3.6	10
231	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
230	Novel quinoxaline based chemosensors with selective dual mode of action: nucleophilic addition and host-guest type complex formation. <i>RSC Advances</i> , <b>2016</b> , 6, 64009-64018	3.7	11
229	Mechanistic Study of Photocatalytic Hydrogen Generation with Simple Iron Carbonyls as Water Reduction Catalysts. <i>ChemCatChem</i> , <b>2016</b> , 8, 404-411	5.2	14
228	Theoretical mechanistic investigation of zinc(II) catalyzed oxidative amidation of benzyl alcohols with amines. <i>Polyhedron</i> , <b>2016</b> , 112, 34-42	2.7	3
227	Gas hydrates model for the mechanistic investigation of the Wittig reaction in water – RSC <i>Advances</i> , <b>2016</b> , 6, 23448-23458	3.7	11
226	Iron-catalyzed photoreduction of carbon dioxide to synthesis gas. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 3623-3630	5.5	49
225	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
224	In Situ FTIR and NMR Spectroscopic Investigations on Ruthenium-Based Catalysts for Alkene Hydroformylation. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 2746-57	4.8	13
223	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
222	Theoretical mechanistic investigation of zinc(II) catalyzed oxidation of alcohols to aldehydes and esters. <i>RSC Advances</i> , <b>2016</b> , 6, 31876-31883	3.7	7
221	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
220	Deuteron quadrupole coupling constants and reorientational correlation times in protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 17788-94	3.6	18
219	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
218	Controlling the subtle energy balance in protic ionic liquids: dispersion forces compete with hydrogen bonds. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2792-5	16.4	71
217	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
216	Isolation, spectroscopic and density functional theory studies of 7-(4-methoxyphenyl)-9H-furo[2,3-f]chromen-9-one: a new flavonoid from the bark of <i>Millettia ovalifolia</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 146, 24-32	4.4	17

215	Spectroscopic and density functional theory studies of 7-hydroxy-3'-methoxyisoflavone: A new isoflavone from the seeds of <i>Indigofera heterantha</i> (Wall). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 148, 375-81	4.4	20
214	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
213	Immune mechanism-targeted treatment of experimental epidermolysis bullosa acquisita. <i>Expert Review of Clinical Immunology</i> , <b>2015</b> , 11, 1365-78	5.1	3
212	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
211	Cation-cation clusters in ionic liquids: Cooperative hydrogen bonding overcomes like-charge repulsion. <i>Scientific Reports</i> , <b>2015</b> , 5, 17505	4.9	86
210	Vibrational dephasing in ionic liquids as a signature of hydrogen bonding. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2519-23	13	
209	Steuerung der subtilen Energiebalance in protischen ionischen Flüssigkeiten: Dispersionskräfte im Wettstreit mit Wasserstoffbrücken. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2834-2837	3.6	12
208	Towards thermally stable cyclophanediene-dihydropyrene photoswitches. <i>Journal of Molecular Modeling</i> , <b>2015</b> , 21, 148	2	6
207	Imidazolium salt ion pairs in solution. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8324-35	4.8	137
206	Mechanistic insight of TiCl <sub>4</sub> catalyzed formal [3 + 3] cyclization of 1,3-bis(silyl enol ethers) with 1,3-dielectrophiles. <i>RSC Advances</i> , <b>2015</b> , 5, 94304-94314	3.7	6
205	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
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71	Vibrational spectra of the tetramethylpnikogenonium ions. <i>Journal of Molecular Spectroscopy</i> , <b>2003</b> , 219, 170-174	1.3	1
70	Struktur und Eigenschaften des Hydridomethyltetrafluorphosphatanions, [CH <sub>3</sub> PF <sub>4</sub> H] <sup>-</sup> <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2003</b> , 629, 609-614	1.3	2
69	Struktur und Eigenschaften des Methylpentafluorphosphatanions, [CH <sub>3</sub> PF <sub>5</sub> ] <sup>-</sup> <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2003</b> , 629, 615-620	1.3	1
68	Raman spectroscopic investigation of small matrix-isolated lithium clusters. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 6957-6963	3.9	33
67	Darstellung von Tetramethylammoniumazidsulfid und Tetramethylammoniumcyanat-Schwefeldioxid-Addukt, [(CH <sub>3</sub> ) <sub>4</sub> N] <sup>+</sup> [SO <sub>2</sub> N <sub>3</sub> ] <sup>-</sup> [(CH <sub>3</sub> ) <sub>4</sub> N] <sup>+</sup> [SO <sub>2</sub> OCN] <sup>-</sup> und Kristallstruktur von [(CH <sub>3</sub> ) <sub>4</sub> N] <sup>+</sup> [SO <sub>2</sub> N <sub>3</sub> ] <sup>-</sup> <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2002</b> , 628, 183-190	1.3	5
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65	Die molekulare Zusammensetzung des flüssigen Schwefels. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 3331-3335	3.6	2
64	Molecular composition of liquid sulfur. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 3199-202	16.4	21
63	Hydrogen bonding in a sterically hindered alcohol. <i>Journal of Molecular Liquids</i> , <b>2002</b> , 98-99, 163-171	6	38
62	Quantum Cluster Equilibrium Theory of Liquids: Isotopically substituted QCE/3-21G Model Water. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2002</b> , 216,	3.1	19
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56	Water: From Clusters to the Bulk. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1808-1827	16.4	1042
55	Preparation and crystal structure of tetraphenylphosphonium triiodotetrabromide [PPh <sub>4</sub> ][I <sub>3</sub> Br <sub>4</sub> ]. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 25-8	5.1	26
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53	Water: From Clusters to the Bulk. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1808-1827	16.4	47
52	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
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