

# Daniel Rauber

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

46  
papers

549  
citations

13  
h-index

20  
g-index

50  
ext. papers

725  
ext. citations

3.8  
avg, IF

4.09  
L-index

#	Paper	IF	Citations
46	Pressing matter: why are ionic liquids so viscous?. <i>Chemical Science</i> , <b>2022</b> , 13, 2735-2743	9.4	2
45	Effect of the cation structure on the properties of homobaric imidazolium ionic liquids.. <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> ,	3.6	1
44	The deformation behaviour of electrodeposited nanocrystalline Ni in an atomic force microscope with a newly developed in situ bending machine. <i>International Journal of Materials Research</i> , <b>2022</b> , 97, 1220-1223	0.5	1
43	Pressure and Temperature Dependence of Local Structure and Dynamics in an Ionic Liquid. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 2719-2728	3.4	7
42	Structure-Property Relation of Trimethyl Ammonium Ionic Liquids for Battery Applications. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5679	2.6	2
41	Effects of Cationic Species in Salts on the Electrical Conductivity of Doped PEDOT:PSS Films. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 98-103	4.3	14
40	Investigation of structural, optical, and magnetic properties of Co <sup>2+</sup> ions substituted CuFe <sub>2</sub> O <sub>4</sub> spinel ferrite nanoparticles prepared via precipitation approach. <i>Journal of the Australian Ceramic Society</i> , <b>2021</b> , 57, 543-553	1.5	2
39	Curled cation structures accelerate the dynamics of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 21042-21064	3.6	3
38	Ether functionalisation, ion conformation and the optimisation of macroscopic properties in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 23038-23056	3.6	13
37	Conformational design concepts for anions in ionic liquids.. <i>Chemical Science</i> , <b>2020</b> , 11, 6405-6422	9.4	13
36	Comprehensive Study of the Impact of Mg <sup>2+</sup> Doping on Optical, Structural, and Magnetic Properties of Copper Nanoferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2020</b> , 33, 3065-3075	1.5	3
35	Protic ionic liquids immobilized in phosphoric acid-doped polybenzimidazole matrix enable polymer electrolyte fuel cell operation at 200 °C. <i>Journal of Membrane Science</i> , <b>2020</b> , 608, 118188	9.6	23
34	An Interaction-mediating strategy towards enhanced solubility and redox properties of organics for aqueous flow batteries. <i>Nano Energy</i> , <b>2020</b> , 69, 104464	17.1	15
33	Influence of Water on Tribolayer Growth When Lubricating Steel with a Fluorinated Phosphonium Dicyanamide Ionic Liquid. <i>Lubricants</i> , <b>2019</b> , 7, 27	3.1	8
32	Density Functional Theory Descriptors for Ionic Liquids and the Introduction of a Coulomb Correction. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 4188-4200	2.8	10
31	Density Functional Theory Descriptors for Ionic Liquids and the Charge-Transfer Interpretation of the Haven Ratio. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 851-861	2.8	17
30	Multiple Ether-Functionalized Phosphonium Ionic Liquids as Highly Fluid Electrolytes. <i>ChemPhysChem</i> , <b>2019</b> , 20, 443-455	3.2	11

29	Trioctylphosphonium room temperature ionic liquids with perfluorinated groups [Physical properties and surface behavior in comparison with the nonfluorinated analogues. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 537, 116-125	5.1	8
28	Electrochemical Lignin Degradation in Ionic Liquids on Ternary Mixed Metal Electrodes. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 189-208	3.1	23
27	Transport properties of protic and aprotic guanidinium ionic liquids.. <i>RSC Advances</i> , <b>2018</b> , 8, 41639-41650.	5.7	11
26	Linking Structure to Dynamics in Protic Ionic Liquids: A Neutron Scattering Study of Correlated and Single-Particle Motions. <i>Scientific Reports</i> , <b>2018</b> , 8, 16400	4.9	11
25	Novel Mixed-Mode Stationary Phases for Chromatographic Separation of Complex Mixtures of Decomposed Lignin. <i>ChemistrySelect</i> , <b>2017</b> , 2, 779-786	1.8	8
24	Pulse electrodeposition of catalyst nanoparticles for application in PEM fuel cells. <i>Transactions of the Institute of Metal Finishing</i> , <b>2017</b> , 95, 9-19	1.3	5
23	On the physicochemical and surface properties of 1-alkyl 3-methylimidazolium bis(nonafluorobutylsulfonyl)imide ionic liquids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 529, 169-177	5.1	7
22	Lamellar structures in fluorinated phosphonium ionic liquids: the roles of fluorination and chain length. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27251-27258	3.6	19
21	Sustainable Electrochemical Depolymerization of Lignin in Reusable Ionic Liquids. <i>Scientific Reports</i> , <b>2017</b> , 7, 5041	4.9	49
20	Transport properties and ionicity of phosphonium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 23015-23023	3.6	20
19	Catalyst retention utilizing a novel fluorinated phosphonium ionic liquid in Heck reactions under fluororous biphasic conditions. <i>Journal of Fluorine Chemistry</i> , <b>2017</b> , 200, 115-122	2.1	8
18	Influence of perfluoroalkyl-chains on the surface properties of 1-methylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 216, 246-258	6	17
17	Influence of pluronic P123 in modifying the morphological and optical properties of PbS nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 4186-4193	2.1	
16	Influence of different chemical surface patterns on the dynamic wetting behaviour on flat and silanized silicon wafers during inclining-plate measurements: An experimental investigation with the high-precision drop shape analysis approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 508, 274-285	5.1	7
15	Optical properties of Cu <sup>2+</sup> and Fe <sup>2+</sup> doped ZnS semiconductor nanoparticles synthesized by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 5495-5501	2.1	8
14	High-precision drop shape analysis (HPDSA) of quasistatic contact angles on silanized silicon wafers with different surface topographies during inclining-plate measurements: Influence of the surface roughness on the contact line dynamics. <i>Applied Surface Science</i> , <b>2015</b> , 342, 11-25	6.7	30
13	Synthesis, optical and surface morphological properties of polyethylene glycol capped lead sulphide nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8478-8483	2.1	3
12	Active Mixing Inside Double Emulsion Segments in Continuous Flow. <i>Journal of Flow Chemistry</i> , <b>2015</b> , 5, 101-109	3.3	6

11	Palladium-Catalyzed Carbon-Carbon Cross-Coupling Reactions in Thermomorphous Double Emulsions. <i>Journal of Flow Chemistry</i> , <b>2015</b> , 5, 43-47	3.3	5
10	Structural and optical properties of Co-doped ZnS nanoparticles synthesized by a capping agent. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 2177-2182	2.1	39
9	Luminescence properties of Mn and Ni doped ZnS nanoparticles synthesized by capping agent. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 5188-5194	2.1	14
8	Optical and magnetic properties of Zn <sub>0.98</sub> Mn <sub>0.02</sub> O nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , <b>2013</b> , 3, 153-159	3.3	11
7	Permeability and Diffusivity Measurements on Polymer Electrolyte Membranes. <i>Fuel Cells</i> , <b>2013</b> , 13, 58-64	2.9	13
6	Crystal microstructure of annealed nanocrystalline Chromium studied by synchrotron radiation diffraction. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 1151-1161	2.3	5
5	Ordered Macroporous Ruthenium Oxide Electrodes for Potentiometric and Amperometric Sensing Applications. <i>Electroanalysis</i> , <b>2011</b> , 23, 1186-1192	3	12
4	Nanocrystalline alumina dispersed in nanocrystalline nickel: enhanced mechanical properties. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 2725-2735	4.3	41
3	The deformation behaviour of electrodeposited nanocrystalline Ni in an atomic force microscope with a newly developed in situ bending machine. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 1220-1223	0.5	10
2	Cobalt ferrite-silica core-shell colloids: a magnetic Yukawa system. <i>Applied Organometallic Chemistry</i> , <b>2004</b> , 18, 520-522	3.1	12
1	Pentacene in 1,3,5-Tri(1-naphtyl)benzene: A Novel Standard for Transient EPR Spectroscopy at Room Temperature. <i>Applied Magnetic Resonance</i> , 1	0.8	1