Daniel Rauber

List of Publications by Citations

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	Sustainable Electrochemical Depolymerization of Lignin in Reusable Ionic Liquids. *Scientific Reports*, **2017**, 7, 5041	4.9	49
45	Nanocrystalline alumina dispersed in nanocrystalline nickel: enhanced mechanical properties. *Journal of Materials Science*, **2009**, 44, 2725-2735	4.3	41
44	Structural and optical properties of Co-doped ZnS nanoparticles synthesized by a capping agent. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2177-2182	2.1	39
43	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. *Applied Surface Science*, **2015**, 342, 11-25	6.7	30
42	Protic ionic liquids immobilized in phosphoric acid-doped polybenzimidazole matrix enable polymer electrolyte fuel cell operation at 200 °C. *Journal of Membrane Science*, **2020**, 608, 118188	9.6	23
41	Electrochemical Lignin Degradation in Ionic Liquids on Ternary Mixed Metal Electrodes. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 189-208	3.1	23
40	Transport properties and ionicity of phosphonium ionic liquids. *Physical Chemistry Chemical Physics*, **2017**, 19, 23015-23023	3.6	20
39	Lamellar structures in fluorinated phosphonium ionic liquids: the roles of fluorination and chain length. *Physical Chemistry Chemical Physics*, **2017**, 19, 27251-27258	3.6	19
38	Influence of perfluoroalkyl-chains on the surface properties of 1-methylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquids. *Journal of Molecular Liquids*, **2016**, 216, 246-258	6	17
37	Density Functional Theory Descriptors for Ionic Liquids and the Charge-Transfer Interpretation of the Haven Ratio. *Journal of Physical Chemistry A*, **2019**, 123, 851-861	2.8	17
36	An "interaction-mediating" strategy towards enhanced solubility and redox properties of organics for aqueous flow batteries. *Nano Energy*, **2020**, 69, 104464	17.1	15
35	Luminescence properties of Mn and Ni doped ZnS nanoparticles synthesized by capping agent. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 5188-5194	2.1	14
34	Effects of Cationic Species in Salts on the Electrical Conductivity of Doped PEDOT:PSS Films. *ACS Applied Polymer Materials*, **2021**, 3, 98-103	4.3	14
33	Ether functionalisation, ion conformation and the optimisation of macroscopic properties in ionic liquids. *Physical Chemistry Chemical Physics*, **2020**, 22, 23038-23056	3.6	13
32	Conformational design concepts for anions in ionic liquids.. *Chemical Science*, **2020**, 11, 6405-6422	9.4	13
31	Permeability and Diffusivity Measurements on Polymer Electrolyte Membranes. *Fuel Cells*, **2013**, 13, 58-64	2.9	13
30	Ordered Macroporous Ruthenium Oxide Electrodes for Potentiometric and Amperometric Sensing Applications. *Electroanalysis*, **2011**, 23, 1186-1192	3	12

29	Cobalt ferrite–silica core–shell colloids: a magnetic Yukawa system. *Applied Organometallic Chemistry*, **2004**, 18, 520-522	3.1	12
28	Optical and magnetic properties of Zn0.98Mn0.02O nanoparticles. *Applied Nanoscience (Switzerland)*, **2013**, 3, 153-159	3.3	11
27	Multiple Ether-Functionalized Phosphonium Ionic Liquids as Highly Fluid Electrolytes. *ChemPhysChem*, **2019**, 20, 443-455	3.2	11
26	Transport properties of protic and aprotic guanidinium ionic liquids.. *RSC Advances*, **2018**, 8, 41639-41650	3.7	11
25	Linking Structure to Dynamics in Protic Ionic Liquids: A Neutron Scattering Study of Correlated and Single-Particle Motions. *Scientific Reports*, **2018**, 8, 16400	4.9	11
24	Density Functional Theory Descriptors for Ionic Liquids and the Introduction of a Coulomb Correction. *Journal of Physical Chemistry A*, **2019**, 123, 4188-4200	2.8	10
23	The deformation behaviour of electrodeposited nanocrystalline Ni in an atomic force microscope with a newly developed in situ bending machine. *International Journal of Materials Research*, **2006**, 97, 1220-1223	0.5	10
22	Novel Mixed-Mode Stationary Phases for Chromatographic Separation of Complex Mixtures of Decomposed Lignin. *ChemistrySelect*, **2017**, 2, 779-786	1.8	8
21	Influence of Water on Tribolayer Growth When Lubricating Steel with a Fluorinated Phosphonium Dicyanamide Ionic Liquid. *Lubricants*, **2019**, 7, 27	3.1	8
20	Optical properties of Cu2+ and Fe2+ doped ZnS semiconductor nanoparticles synthesized by co-precipitation method. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 5495-5501	2.1	8
19	Trioctylphosphonium room temperature ionic liquids with perfluorinated groups – Physical properties and surface behavior in comparison with the nonfluorinated analogues. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 537, 116-125	5.1	8
18	Catalyst retention utilizing a novel fluorinated phosphonium ionic liquid in Heck reactions under fluorous biphasic conditions. *Journal of Fluorine Chemistry*, **2017**, 200, 115-122	2.1	8
17	On the physicochemical and surface properties of 1-alkyl 3-methylimidazolium bis(nonafluorobutylsulfonyl)imide ionic liquids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 529, 169-177	5.1	7
16	Pressure and Temperature Dependence of Local Structure and Dynamics in an Ionic Liquid. *Journal of Physical Chemistry B*, **2021**, 125, 2719-2728	3.4	7
15	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. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 508, 274-285	5.1	7
14	Active Mixing Inside Double Emulsion Segments in Continuous Flow. *Journal of Flow Chemistry*, **2015**, 5, 101-109	3.3	6
13	Pulse electrodeposition of catalyst nanoparticles for application in PEM fuel cells. *Transactions of the Institute of Metal Finishing*, **2017**, 95, 9-19	1.3	5
12	Palladium-Catalyzed Carbon–Carbon Cross-Coupling Reactions in Thermomorphous Double Emulsions. *Journal of Flow Chemistry*, **2015**, 5, 43-47	3.3	5

11	Crystal microstructure of annealed nanocrystalline Chromium studied by synchrotron radiation diffraction. *Journal of Nanoparticle Research*, **2011**, 13, 1151-1161	2.3	5
10	Synthesis, optical and surface morphological properties of polyethylene glycol capped lead sulphide nanoparticles. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 8478-8483	2.1	3
9	Comprehensive Study of the Impact of Mg2+ Doping on Optical, Structural, and Magnetic Properties of Copper Nanoferrites. *Journal of Superconductivity and Novel Magnetism*, **2020**, 33, 3065-3075	1.5	3
8	Curled cation structures accelerate the dynamics of ionic liquids. *Physical Chemistry Chemical Physics*, **2021**, 23, 21042-21064	3.6	3
7	Pressing matter: why are ionic liquids so viscous?. *Chemical Science*, **2022**, 13, 2735-2743	9.4	2
6	Structure-Property Relation of Trimethyl Ammonium Ionic Liquids for Battery Applications. *Applied Sciences (Switzerland)*, **2021**, 11, 5679	2.6	2
5	Investigation of structural, optical, and magnetic properties of Co2+ ions substituted CuFe2O4 spinel ferrite nanoparticles prepared via precipitation approach. *Journal of the Australian Ceramic Society*, **2021**, 57, 543-553	1.5	2
4	Pentacene in 1,3,5-Tri(1-naphtyl)benzene: A Novel Standard for Transient EPR Spectroscopy at Room Temperature. *Applied Magnetic Resonance*,1	0.8	1
3	Effect of the cation structure on the properties of homobaric imidazolium ionic liquids.. *Physical Chemistry Chemical Physics*, **2022**,	3.6	1
2	The deformation behaviour of electrodeposited nanocrystalline Ni in an atomic force microscope with a newly developed in situ bending machine. *International Journal of Materials Research*, **2022**, 97, 1220-1223	0.5	1
1	Influence of pluronic P123 in modifying the morphological and optical properties of PbS nanocomposite. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 4186-4193	2.1	