

Marcin Smiglak

List of Publications by Year in descending order

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74
papers

3,742
citations

218677

26
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128289

60
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79
all docs

79
docs citations

79
times ranked

3958
citing authors

#	ARTICLE	IF	CITATIONS
1	The third evolution of ionic liquids: active pharmaceutical ingredients. <i>New Journal of Chemistry</i> , 2007, 31, 1429.	2.8	766
2	The Second Evolution of Ionic Liquids: From Solvents and Separations to Advanced Materials – Energetic Examples from the Ionic Liquid Cookbook. <i>Accounts of Chemical Research</i> , 2007, 40, 1182-1192.	15.6	454
3	Ionic liquids for energy, materials, and medicine. <i>Chemical Communications</i> , 2014, 50, 9228-9250.	4.1	447
4	Combustible ionic liquids by design: is laboratory safety another ionic liquid myth?. <i>Chemical Communications</i> , 2006, , 2554.	4.1	301
5	Ionic liquids with dual biological function: sweet and anti-microbial, hydrophobic quaternary ammonium-based salts. <i>New Journal of Chemistry</i> , 2009, 33, 26-33.	2.8	173
6	Long alkyl chain quaternary ammonium-based ionic liquids and potential applications. <i>Green Chemistry</i> , 2006, 8, 798.	9.0	146
7	1-Butyl-3-methylimidazolium 3,5-dinitro-1,2,4-triazolate: a novel ionic liquid containing a rigid, planar energetic anion. <i>Chemical Communications</i> , 2005, , 868.	4.1	99
8	Ionic liquids via reaction of the zwitterionic 1,3-dimethylimidazolium-2-carboxylate with protic acids. Overcoming synthetic limitations and establishing new halide free protocols for the formation of ILs. <i>Green Chemistry</i> , 2007, 9, 90-98.	9.0	93
9	In Search of Ionic Liquids Incorporating Azolate Anions. <i>Chemistry - A European Journal</i> , 2006, 12, 4630-4641.	3.3	76
10	Ionic liquids as bioactive chemical tools for use in agriculture and the preservation of agricultural products. <i>Green Chemistry</i> , 2018, 20, 4764-4789.	9.0	68
11	Strategies toward the design of energetic ionic liquids: nitro- and nitrile-substituted N,N'-dialkylimidazolium salts. <i>New Journal of Chemistry</i> , 2006, 30, 349.	2.8	62
12	An Intermediate for the Clean Synthesis of Ionic Liquids: Isolation and Crystal Structure of 1,3-Dimethylimidazolium Hydrogen Carbonate Monohydrate. <i>Chemistry - A European Journal</i> , 2007, 13, 5207-5212.	3.3	58
13	Mixtures of ionic liquids as more efficient media for cellulose dissolution. <i>Carbohydrate Polymers</i> , 2017, 178, 277-285.	10.2	58
14	Catalytic ignition of ionic liquids for propellant applications. <i>Chemical Communications</i> , 2010, 46, 8965.	4.1	54
15	Ionic Liquids Based on Azolate Anions. <i>Chemistry - A European Journal</i> , 2010, 16, 1572-1584.	3.3	44
16	Highly Effective Supported Ionic Liquid-Phase (SILP) Catalysts: Characterization and Application to the Hydrosilylation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4699-4706.	6.7	39
17	Synthesis, limitations, and thermal properties of energetically-substituted, protonated imidazolium picrate and nitrate salts and further comparison with their methylated analogs. <i>New Journal of Chemistry</i> , 2012, 36, 702-722.	2.8	37
18	Cationic derivatives of the plant resistance inducer benzo[1,2,3]thiadiazole-7-carbothioic acid S-methyl ester (BTH) as bifunctional ionic liquids. <i>Tetrahedron Letters</i> , 2014, 55, 3565-3568.	1.4	37

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19	Bifunctional quaternary ammonium salts based on benzo[1,2,3]thiadiazole-7-carboxylate as plant systemic acquired resistance inducers. <i>New Journal of Chemistry</i> , 2014, 38, 1372.	2.8	34
20	Dual Functional Salts of Benzo[1.2.3]thiadiazole-7-carboxylates as a Highly Efficient Weapon Against Viral Plant Diseases. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4197-4204.	6.7	33
21	Ionic Liquids with Natural Origin Component: A Path to New Plant Protection Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 842-852.	6.7	31
22	Direct, Atom Efficient, and Halide-Free Syntheses of Azolium Azolate Energetic Ionic Liquids and Their Eutectic Mixtures, and Method for Determining Eutectic Composition. <i>Chemistry - A European Journal</i> , 2008, 14, 11314-11319.	3.3	30
23	Deep eutectic solvents based on choline cation - Physicochemical properties and influence on enzymatic reaction with β -galactosidase. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 296-304.	7.5	30
24	New Dual Functional Salts Based on Cationic Derivative of Plant Resistance Inducer - Benzo[1.2.3]thiadiazole-7-carbothioic Acid, S-Methyl Ester. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3344-3351.	6.7	29
25	New hydrogen carbonate precursors for efficient and byproduct-free syntheses of ionic liquids based on 1,2,3-trimethylimidazolium and N,N-dimethylpyrrolidinium cores. <i>Green Chemistry</i> , 2010, 12, 491.	9.0	27
26	Synthesis of N-cyanoalkyl-functionalized imidazolium nitrate and dicyanamide ionic liquids with a comparison of their thermal properties for energetic applications. <i>New Journal of Chemistry</i> , 2011, 35, 1701.	2.8	27
27	Ionic Liquids as Solvents for Rhodium and Platinum Catalysts Used in Hydrosilylation Reaction. <i>Molecules</i> , 2016, 21, 1115.	3.8	27
28	Eutectic mixtures of pyrrolidinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2016, 408, 1-9.	2.5	26
29	Crystallization of Uranyl Salts from Dialkylimidazolium Ionic Liquids or Their Precursors. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2760-2767.	2.0	24
30	New approach to hydrosilylation reaction in ionic liquids as solvent in microreactor system. <i>RSC Advances</i> , 2016, 6, 61860-61868.	3.6	23
31	Assessment of the Efficacy and Mode of Action of Benzo(1,2,3)-Thiadiazole-7-Carbothioic Acid S-Methyl Ester (BTH) and Its Derivatives in Plant Protection Against Viral Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1598.	4.1	23
32	New ionic liquids based on systemic acquired resistance inducers combined with the phytotoxicity reducing cholinium cation. <i>New Journal of Chemistry</i> , 2018, 42, 11984-11990.	2.8	22
33	Properties modification by eutectic formation in mixtures of ionic liquids. <i>RSC Advances</i> , 2015, 5, 22178-22187.	3.6	21
34	The effect of the catalyst and the type of ionic liquid on the hydrosilylation process under batch and continuous reaction conditions. <i>New Journal of Chemistry</i> , 2018, 42, 5229-5236.	2.8	16
35	Structure-property relationships of tailored imidazolium- and pyrrolidinium-based poly(ionic liquid)s. Solid-like vs. gel-like systems. <i>Polymer</i> , 2020, 192, 122262.	3.8	16
36	Acceleration of lactose hydrolysis using beta-galactosidase and deep eutectic solvents. <i>Food Chemistry</i> , 2022, 384, 132498.	8.2	15

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37	Solvent-free synthesis of benzothiazole-based quaternary ammonium salts: precursors to ionic liquids. <i>Arkivoc</i> , 2010, 2010, 19-37.	0.5	14
38	Platinum and rhodium complexes ligated by imidazolium-substituted phosphine as efficient and recyclable catalysts for hydrosilylation. <i>RSC Advances</i> , 2019, 9, 29396-29404.	3.6	14
39	Synthesis and characterization of potentially polymerizable amine-derived ionic liquids bearing 4-vinylbenzyl group. <i>Journal of Molecular Liquids</i> , 2019, 283, 427-439.	4.9	14
40	A general design platform for ionic liquid ions based on bridged multi-heterocycles with flexible symmetry and charge. <i>Chemical Communications</i> , 2010, 46, 3544.	4.1	13
41	An efficient method for synthesizing monofunctionalized derivatives of 1,1,3,3-tetramethyldisiloxane in ionic liquids as recoverable solvents for rhodium catalyst. <i>Catalysis Communications</i> , 2018, 108, 59-63.	3.3	13
42	Thermal behaviour of mixtures of 1-alkylpyridinium halides with and without a common ion. <i>Journal of Molecular Liquids</i> , 2018, 268, 781-790.	4.9	13
43	Continuous flow synthesis of diaryl ketones by coupling of aryl Grignard reagents with acyl chlorides under mild conditions in the ecofriendly solvent 2-methyltetrahydrofuran. <i>RSC Advances</i> , 2019, 9, 2199-2204.	3.6	13
44	New bifunctional ionic liquid-based plant systemic acquired resistance (SAR) inducers with an improved environmental hazard profile. <i>Green Chemistry</i> , 2021, 23, 5138-5149.	9.0	13
45	Azolium azolates from reactions of neutral azoles with 1,3-dimethyl-imidazolium-2-carboxylate, 1,2,3-trimethyl-imidazolium hydrogen carbonate, and N,N-dimethyl-pyrrolidinium hydrogen carbonate. <i>New Journal of Chemistry</i> , 2013, 37, 1461.	2.8	12
46	Anhydrous Caffeine Hydrochloride and Its Hydration. <i>Crystal Growth and Design</i> , 2012, 12, 4658-4662.	3.0	9
47	Solid-liquid equilibria for a pyrrolidinium-based common-cation ternary ionic liquid system, and for a pyridinium-based ternary reciprocal ionic liquid system: an experimental study and a thermodynamic model. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 637-657.	2.8	9
48	Ionic liquids—a novel material for planar photonics. <i>Nanotechnology</i> , 2018, 29, 475202.	2.6	9
49	Ionic liquids for active photonics components fabrication. <i>Optical Materials</i> , 2019, 89, 106-111.	3.6	9
50	Ionic Liquid-Based Routes to Conversion or Reuse of Recycled Ammonium Perchlorate. <i>Chemistry - A European Journal</i> , 2009, 15, 13441-13448.	3.3	8
51	Efficient synthesis of E-1,2-bis(silyl)ethenes via ruthenium-catalyzed homocoupling of vinylsilanes carried out in ionic liquids. <i>Applied Catalysis A: General</i> , 2012, 445-446, 261-268.	4.3	8
52	Versatile Method for the Simultaneous Synthesis of Two Ionic Liquids, Otherwise Difficult to Obtain, with High Atom Economy. <i>ChemistryOpen</i> , 2019, 8, 972-983.	1.9	8
53	Electron Beam Patterning of Polymerizable Ionic Liquid Films for Application in Photonics. <i>Langmuir</i> , 2019, 35, 11968-11978.	3.5	8
54	Synthesis and characterization of nitrogen-based ionic liquids bearing allyl groups and examples of their application. <i>New Journal of Chemistry</i> , 2020, 44, 12274-12288.	2.8	8

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55	Use of New BTH Derivative as Supplement or Substitute of Standard Fungicidal Program in Strawberry Cultivation. <i>Agronomy</i> , 2021, 11, 1031.	3.0	8
56	Optimization and intensification of hydrosilylation reactions using a microreactor system. <i>New Journal of Chemistry</i> , 2018, 42, 15332-15339.	2.8	7
57	The Co-Culture of Staphylococcal Biofilm and Fibroblast Cell Line: The Correlation of Biological Phenomena with Metabolic NMR1 Footprint. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5826.	4.1	7
58	Interaction of electron beam with ionic liquids and its application for micropatterning. <i>European Polymer Journal</i> , 2021, 156, 110615.	5.4	7
59	Synthesis, characterization and biological activity of bifunctional ionic liquids based on dodine ion. <i>Pest Management Science</i> , 2022, 78, 446-455.	3.4	7
60	Mono N-Alkylated DABCO-Based Ionic Liquids and Their Application as Latent Curing Agents for Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5481-5493.	4.4	7
61	Derivatives of Isonicotinic Acid as New Efficient Systemic Acquired Resistance (SAR) Inducers. <i>ChemistrySelect</i> , 2020, 5, 10759-10764.	1.5	6
62	Physical properties and solid-liquid equilibria for hexafluorophosphate-based ionic liquid ternary mixtures and their corresponding subsystems. <i>Journal of Molecular Liquids</i> , 2020, 316, 113742.	4.9	4
63	SILP Materials as Effective Catalysts in Selective Monofunctionalization of 1,1,3,3-Tetramethyldisiloxane. <i>Catalysts</i> , 2020, 10, 1414.	3.5	4
64	A Novel Plant Resistance Inducer for the Protection of European Ash (<i>Fraxinus excelsior</i> L.) against <i>Hymenoscyphus fraxineus</i> Preliminary Studies. <i>Forests</i> , 2021, 12, 1072.	2.1	4
65	Fluorescent ionic liquid micro reservoirs fabricated by dual-step E-beam patterning. <i>Materials Research Bulletin</i> , 2021, 142, 111434.	5.2	4
66	Viscosity of a Ternary Reciprocal System Consisting of 1-Alkylpyridinium Halides. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11823-11838.	3.7	3
67	Simple modifications of nicotinic, isonicotinic, and 2,6-dichloroisonicotinic acids toward new weapons against plant diseases. <i>Open Chemistry</i> , 2021, 19, 1108-1115.	1.9	3
68	An Ionic Liquid-Based Next Generation Double Base Propellant Stabilizer. , 2010, , .		2
69	Reactivity of N-cyanoalkyl-substituted imidazolium halide salts by simple elution through an azide anion exchange resin. <i>Science China Chemistry</i> , 2012, 55, 1683-1687.	8.2	2
70	An effect of choline lactate based low transition temperature mixtures on the lipase catalytic properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 216, 112518.	5.0	2
71	1-Butyl-3-methylimidazolium 3,5-Dinitro-1,2,4-triazolate: A Novel Ionic Liquid Containing a Rigid, Planar Energetic Anion. <i>ChemInform</i> , 2005, 36, no.	0.0	1
72	Zinc-assisted synthesis of imidazolium-tetrazolate bi-heterocyclic zwitterions with variable alkyl bridge length. <i>Science China Chemistry</i> , 2012, 55, 1620-1626.	8.2	1

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73	Solid-liquid phase behavior of mixtures of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amides involving long alkyl side chains. <i>Journal of Molecular Liquids</i> , 2021, 339, 116805.	4.9	1
74	Polymerizable ionic liquids for microstructures fabrication. , 2019, , .		0