

# Nicolas Schaeffer

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,201  
citations

430754

18  
h-index

377752

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenolic hydrogen bond donors in the formation of non-ionic deep eutectic solvents: the quest for type V DES. <i>Chemical Communications</i> , 2019, 55, 10253-10256.	2.2	272
2	Sustainable hydrophobic terpene-based eutectic solvents for the extraction and separation of metals. <i>Chemical Communications</i> , 2018, 54, 8104-8107.	2.2	116
3	Greener Terpene-based Terpene Eutectic Mixtures as Hydrophobic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17414-17423.	3.2	85
4	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1563-1566.	7.2	82
5	Non-Ideality in Thymol + Menthol Type V Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2203-2211.	3.2	72
6	Non-ionic hydrophobic eutectics – versatile solvents for tailored metal separation and valorisation. <i>Green Chemistry</i> , 2020, 22, 2810-2820.	4.6	67
7	Recovery of metals from waste electrical and electronic equipment (WEEE) using unconventional solvents based on ionic liquids. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 859-922.	6.6	63
8	Rationalizing the Phase Behavior of Triblock Copolymers through Experiments and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21224-21236.	1.5	33
9	Synergistic Aqueous Biphasic Systems: A New Paradigm for the One-Pot Hydrometallurgical Recovery of Critical Metals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1769-1777.	3.2	28
10	Improved coarse-grain model to unravel the phase behavior of 1-alkyl-3-methylimidazolium-based ionic liquids through molecular dynamics simulations. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 324-336.	5.0	28
11	Solvent-Mediated Crystallization of Nanocrystal 3D Assemblies of Silver Nanocrystals: Unexpected Superlattice Ripening. <i>Chemistry of Materials</i> , 2016, 28, 293-302.	3.2	27
12	Mechanism of ionic-liquid-based acidic aqueous biphasic system formation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9838-9846.	1.3	26
13	Green separation of lanthanum, cerium and nickel from waste nickel metal hydride battery. <i>Waste Management</i> , 2021, 125, 154-162.	3.7	25
14	Mechanisms of phase separation in temperature-responsive acidic aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7462-7473.	1.3	23
15	Interactions between trivalent rare earth oxides and mixed [Hbet][Tf2N]:H2O systems in the development of a one-step process for the separation of light from heavy rare earth elements. <i>Inorganica Chimica Acta</i> , 2016, 439, 55-60.	1.2	22
16	The Role of Charge Transfer in the Formation of Type I Deep Eutectic Solvent-Analogous Ionic Liquid Mixtures. <i>Molecules</i> , 2019, 24, 3687.	1.7	21
17	Recovery of an yttrium europium oxide phosphor from waste fluorescent tubes using a Brønsted acidic ionic liquid, 1-methylimidazolium hydrogen sulfate. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2731-2738.	1.6	20
18	Selective Separation of Manganese, Cobalt, and Nickel in a Fully Aqueous System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12260-12269.	3.2	18

#	ARTICLE	IF	CITATIONS
19	Using coarse-grained molecular dynamics to understand the effect of ionic liquids on the aggregation of Pluronic copolymer solutions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5824-5833.	1.3	17
20	A Comparison of Cobalt and Platinum Extraction in Hydrophobic and Hydrophilic Ionic Liquids: Implication for Proton Exchange Membrane Fuel Cell Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15865-15874.	3.2	16
21	Solvent extraction in extended hydrogen bonded fluids – separation of Pt(IV) from Pd(II) using TOPO-based type V DES. <i>Green Chemistry</i> , 2021, 23, 4540-4550.	4.6	16
22	Selective Sequential Recovery of Zinc and Copper from Acid Mine Drainage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3647-3657.	3.2	16
23	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie</i> , 2018, 130, 1579-1582.	1.6	13
24	Understanding the fundamentals of acid-induced ionic liquid-based aqueous biphasic system. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16477-16484.	1.3	12
25	Unravelling the Interactions between Surface-Active Ionic Liquids and Triblock Copolymers for the Design of Thermal Responsive Systems. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7046-7058.	1.2	12
26	Use of extraction chromatography in the recycling of critical metals from thin film leach solutions. <i>Inorganica Chimica Acta</i> , 2017, 457, 53-58.	1.2	11
27	Sustainable Extraction and Separation of Rhenium and Molybdenum from Model Copper Mining Effluents Using a Polymeric Aqueous Two-Phase System. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1778-1785.	3.2	11
28	Temperature-responsive extraction of violacein using a tuneable anionic surfactant-based system. <i>Chemical Communications</i> , 2019, 55, 8643-8646.	2.2	10
29	Using coarse-grained molecular dynamics to rationalize biomolecule solubilization mechanisms in ionic liquid-based colloidal systems. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24771-24783.	1.3	9
30	Integrated Leaching and Separation of Metals Using Mixtures of Organic Acids and Ionic Liquids. <i>Molecules</i> , 2020, 25, 5570.	1.7	8
31	A HNO <sub>3</sub> -Responsive Aqueous Biphasic System for Metal Separation: Application towards Ce(IV) Recovery. <i>ChemSusChem</i> , 2021, 14, 3018-3026.	3.6	8
32	Comment on “Structural Study of a Eutectic Solvent Reveals Hydrophobic Segregation and Lack of Hydrogen Bonding between the Components” ACS Sustainable Chemistry and Engineering, 2022, 10, 8669-8670.	3.2	5
33	Synthesis of Purine-Based Ionic Liquids and Their Applications. <i>Molecules</i> , 2021, 26, 6958.	1.7	4
34	Integrated Production and Separation of Furfural Using an Acidic-Based Aqueous Biphasic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12205-12212.	3.2	3
35	Factors driving metal partition in ionic liquid-based acidic aqueous biphasic systems. <i>Separation and Purification Technology</i> , 2022, 299, 121720.	3.9	2