

Prashant S Kulkarni

List of Publications by Year in descending order

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61
papers

2,896
citations

185998

28
h-index

168136

53
g-index

62
all docs

62
docs citations

62
times ranked

3813
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep desulfurization of diesel fuel using ionic liquids: current status and future challenges. <i>Green Chemistry</i> , 2010, 12, 1139.	4.6	406
2	Dioxins sources and current remediation technologies – A review. <i>Environment International</i> , 2008, 34, 139-153.	4.8	380
3	Comparison of Physicochemical Properties of New Ionic Liquids Based on Imidazolium, Quaternary Ammonium, and Guanidinium Cations. <i>Chemistry - A European Journal</i> , 2007, 13, 8478-8488.	1.7	207
4	Versatility of polyethylene glycol (PEG) in designing solid–solid phase change materials (PCMs) for thermal management and their application to innovative technologies. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18379-18396.	5.2	182
5	Toxicological evaluation on human colon carcinoma cell line (CaCo-2) of ionic liquids based on imidazolium, guanidinium, ammonium, phosphonium, pyridinium and pyrrolidinium cations. <i>Green Chemistry</i> , 2009, 11, 1660.	4.6	124
6	Studies on membrane stability and recovery of uranium (VI) from aqueous solutions using a liquid emulsion membrane process. <i>Hydrometallurgy</i> , 2002, 64, 49-58.	1.8	112
7	Recent Advances in Silica-Based Materials for the Removal of Hexavalent Chromium: A Review. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2521-2540.	1.0	108
8	Application of liquid emulsion membrane (LEM) process for enrichment of molybdenum from aqueous solutions. <i>Journal of Membrane Science</i> , 2002, 201, 123-135.	4.1	82
9	Highly selective monitoring of metals by using ion-imprinted polymers. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7375-7404.	2.7	76
10	Shape-stabilized poly(ethylene glycol) (PEG)-cellulose acetate blend preparation with superior PEG loading via microwave-assisted blending. <i>Solar Energy</i> , 2017, 144, 32-39.	2.9	71
11	Recovery of uranium(VI) from acidic wastes using tri-n-octylphosphine oxide and sodium carbonate based liquid membranes. <i>Chemical Engineering Journal</i> , 2003, 92, 209-214.	6.6	67
12	Selective nanomolar detection of mercury using coumarin based fluorescent Hg(II)–ion imprinted polymer. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 597-605.	4.0	54
13	Chitosan-Based Lead Ion-Imprinted Interpenetrating Polymer Network by Simultaneous Polymerization for Selective Extraction of Lead(II). <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3668-3678.	1.8	52
14	Removal of Hexavalent Chromium by Membrane-Based Hybrid Processes. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8176-8182.	1.8	41
15	Poly(ethylene glycol) (PEG)-modified epoxy phase-change polymer with dual properties of thermal storage and vibration damping. <i>Sustainable Energy and Fuels</i> , 2018, 2, 688-697.	2.5	41
16	Interpenetrating phase change polymer networks based on crosslinked polyethylene glycol and poly(hydroxyethyl methacrylate). <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 266-274.	3.0	40
17	Efficacy of zero-valent copper (Cu ⁰) nanoparticles and reducing agents for dechlorination of mono chloroaromatics. <i>Chemosphere</i> , 2016, 159, 359-366.	4.2	38
18	Membrane stability and enrichment of nickel in the liquid emulsion membrane process. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 553-560.	1.6	35

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19	Photocatalytic Degradation of Pharmaceuticals Pollutants Using N-Doped TiO ₂ Photocatalyst: Identification of CFX Degradation Intermediates. <i>Indian Chemical Engineer</i> , 2017, 59, 177-199.	0.9	35
20	l-Proline Functionalized Dicationic Framework of Bifunctional Mesoporous Organosilica for the Simultaneous Removal of Lead and Nitrate Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4188-4196.	3.2	35
21	Polyethylene glycol grafted cotton as phase change polymer. <i>Cellulose</i> , 2014, 21, 685-696.	2.4	33
22	Selective recovery of tungsten from printed circuit board recycling unit wastewater by using emulsion liquid membrane process. <i>Journal of Water Process Engineering</i> , 2015, 8, 75-81.	2.6	33
23	A Comparative Study on Absorption and Selectivity of Organic Vapors by Using Ionic Liquids Based on Imidazolium, Quaternary Ammonium, and Guanidinium Cations. <i>Chemistry - A European Journal</i> , 2007, 13, 8470-8477.	1.7	32
24	An Efficient Method for Determination of the Diphenylamine (Stabilizer) in Propellants by Molecularly Imprinted Polymer based Carbon Paste Electrochemical Sensor. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 376-380.	1.0	32
25	Capture of Dioxins by Ionic Liquids. <i>Environmental Science & Technology</i> , 2008, 42, 2570-2574.	4.6	31
26	Synthesis and characterization of poly(ethylene glycol) (PEG) based hyperbranched polyurethanes as thermal energy storage materials. <i>Thermochimica Acta</i> , 2017, 650, 114-122.	1.2	31
27	Extraction of titanium (IV) from acidic media by 2-ethylhexyl phosphonic acid mono-2-ethylhexyl ester. <i>Hydrometallurgy</i> , 2005, 77, 219-225.	1.8	29
28	Ultrafast igniting, imidazolium based hypergolic ionic liquids with enhanced hydrophobicity. <i>New Journal of Chemistry</i> , 2017, 41, 1250-1258.	1.4	29
29	Synthesis and characterization of poly(ethylene glycol) acrylate (PEGA) copolymers for application as polymeric phase change materials (PCMs). <i>Reactive and Functional Polymers</i> , 2018, 130, 43-50.	2.0	29
30	Crosslinked polymer networks of poly(ethylene glycol) (PEG) and hydroxyl terminated poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 181, 187-194.	2.9	28
31	Thermal Energy Storage Using Poly(ethylene glycol) Incorporated Hyperbranched Polyurethane as Solid Phase Change Material. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14401-14409.	1.8	27
32	Shear-induced lamellar phase of an ionic liquid crystal at room temperature. <i>Liquid Crystals</i> , 2008, 35, 103-107.	0.9	26
33	Selective extraction of natural products with benign solvents and recovery by organophilic pervaporation: fractionation of d-limonene from orange peels. <i>Green Chemistry</i> , 2010, 12, 1990.	4.6	25
34	Ionic Liquid and Biofuel Blend: A Low-cost and High Performance Hypergolic Fuel for Propulsion Application. <i>ChemistrySelect</i> , 2016, 1, 1921-1925.	0.7	25
35	Liquid Membrane Process for the Selective Recovery of Uranium from Industrial Leach Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3118-3125.	1.8	23
36	Supported Ionic Liquid Membranes for Removal of Dioxins from High-Temperature Vapor Streams. <i>Environmental Science & Technology</i> , 2012, 46, 462-468.	4.6	23

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37	Emulsion ionic liquid membranes (EILMs) for removal of Pb(II) from aqueous solutions. RSC Advances, 2014, 4, 52316-52323.	1.7	23
38	Enhanced Photocatalytic Activity of Magnetic BaFe ₁₂ O ₁₉ Nanoplatelets than TiO ₂ with Emphasis on Reaction Kinetics, Mechanism, and Reusability. Industrial & Engineering Chemistry Research, 2018, 57, 16192-16200.	1.8	18
39	Screening of zero valent mono/bimetallic catalysts and recommendation of Raney Ni (without) Tj ETQq1 1 0.784314.rgBT /Overlock 1	4.2	18
40	Insight into the PEG-linked bis-imidazolium bridged framework of mesoporous organosilicas as ion exchangers. Microporous and Mesoporous Materials, 2016, 230, 145-153.	2.2	17
41	Ignition study of amine borane/cyanoborane based green hypergolic fuels. Combustion and Flame, 2019, 210, 1-8.	2.8	17
42	Hypergolic Behavior of Pyridinium Salts Containing Cyanoborohydride and Dicyanamide Anions with Oxidizer RFNA. Propellants, Explosives, Pyrotechnics, 2016, 41, 1013-1019.	1.0	16
43	Ionic liquid (IL) capped MnO ₂ nanoparticles as an electrode material and IL as electrolyte for supercapacitor application. Renewable Energy, 2018, 126, 437-444.	4.3	16
44	Separation of nitroaromatics from wastewater by using supported ionic liquid membranes. Journal of Water Process Engineering, 2019, 32, 100925.	2.6	15
45	A molecularly imprinted polymer with flash column chromatography for the selective and continuous extraction of diphenyl amine. RSC Advances, 2015, 5, 73434-73443.	1.7	14
46	Temperature based adsorption studies of Cr(VI) using p-toluidine formaldehyde resin coated silica material. New Journal of Chemistry, 2015, 39, 3687-3697.	1.4	13
47	Theoretical performance evaluation of hypergolic ionic liquid fuels with storable oxidizers. New Journal of Chemistry, 2017, 41, 9889-9896.	1.4	12
48	Extraction of toluene and n-heptane mixture using ionic liquid Aliquat 336 and mathematical modeling for solvent selection. Separation Science and Technology, 2018, 53, 61-70.	1.3	11
49	Treatment of energetic material contaminated wastewater using ionic liquids. RSC Advances, 2015, 5, 20503-20510.	1.7	10
50	Removal of Phenol from Organic System by Using Ionic Liquids. Current Environmental Engineering, 2019, 6, 126-133.	0.6	9
51	Microwave Assisted Preparation of Poly(ethylene) glycol/Lignin Blends for Thermal Energy Storage. Journal of Energy Storage, 2021, 35, 102338.	3.9	8
52	Shear-induced lamellar ionic liquid-crystal foam. Liquid Crystals, 2010, 37, 377-382.	0.9	7
53	Membrane-liquid emulsion membrane process using a liquid emulsion membrane process using methane sulfonic acid as a strippant. Canadian Journal of Chemical Engineering, 2002, 80, 402-409.	0.9	4
54	How foam-like is the shear-induced lamellar phase of an ionic liquid crystal?. Philosophical Magazine Letters, 2008, 88, 741-747.	0.5	4

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55	A diamino based resin modified silica composite for the selective recovery of tungsten from wastewater. <i>Polymer International</i> , 2016, 65, 1387-1394.	1.6	4
56	Dioxins. , 2019, , 125-134.		4
57	Annealing Temperature- and Morphology-Controlled Development of Nickel Cobaltite Nanoneedles for Photocatalytic Degradation of Nitroaromatics. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4273-4285.	1.8	4
58	Studies on conversion of waste nitramine and fuel-rich-based propellants into liquid fertilizer. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1035-1042.	1.2	3
59	Improved photocatalytic efficiency of TiO ₂ by doping with tungsten and synthesizing in ionic liquid: precise kinetics-mechanism and effect of oxidizing agents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 17532-17545.	2.7	3
60	Photodegradation of an ammonium ionic liquid: spiking in urban wastewater and comparison with aromatic ionic liquids. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1723-1736.	1.2	1
61	STUDIES ON CURING OF GLYCIDYL AZIDE POLYMER USING ISOCYANATE, ACRYLATE AND PROCESSING OF GAP-BORON-BASED, FUEL-RICH PROPELLANTS. <i>International Journal of Energetic Materials and Chemical Propulsion</i> , 2016, 15, 215-230.	0.2	1