Rohit Vekariya

List of Publications by Year
in descending order

39 papers	1,806 citations	430874 18 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	2557 citing authors

#	Article	IF	Citations
1	A review of ionic liquids: Applications towards catalytic organic transformations. Journal of Molecular Liquids, 2017, 227, 44-60.	4.9	778
2	A brief review on solid lipid nanoparticles: part and parcel of contemporary drug delivery systems. RSC Advances, 2020, 10, 26777-26791.	3.6	288
3	Efficient esterification of n-butanol with acetic acid catalyzed by the BrÃ¶nsted acidic ionic liquids: influence of acidity. RSC Advances, 2017, 7, 5412-5420.	3.6	71
4	An overview of engineered porous material for energy applications: a mini-review. Ionics, 2018, 24, 1-17.	2.4	61
5	Marine Natural Product Bis-indole Alkaloid Caulerpin: Chemistry and Biology. Mini-Reviews in Medicinal Chemistry, 2019, 19, 751-761.	2.4	36
6	Influence of tagging thiophene bridge unit on optical and electrochemical properties of coumarin based dyes for DSSCs with theoretical insight. Organic Electronics, 2018, 53, 280-286.	2.6	34
7	An experimental and DFT study on novel dyes incorporated with natural dyes on titanium dioxide (TiO2) towards solar cell application. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	34
8	Coumarin based sensitizers with ortho-halides substituted phenylene spacer for dye sensitized solar cells. Organic Electronics, 2017, 48, 291-297.	2.6	33
9	Influence of N-Alkylpyridinium Halide Based Ionic Liquids on Micellization of P123 in Aqueous Solutions: A SANS, DLS, and NMR Study. Langmuir, 2014, 30, 14406-14415.	3.5	31
10	Humic Acid as a Sensitizer in Highly Stable Dye Solar Cells: Energy from an Abundant Natural Polymer Soil Component. ACS Omega, 2016, 1, 14-18.	3.5	31
11	Effect of ionic liquids on microstructures of micellar aggregates formed by PEOâ€“PPOâ€“PEO block copolymer in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 462, 153-161.	4.7	27
12	Synthesis and characterization of double â€“SO₃H functionalized BrÃ¶nsted acidic hydrogensulfate ionic liquid confined with silica through sol-gel method. Composite Interfaces, 2017, 24, 801-816.	2.3	27
13	Kinetics and mechanistic study of n -alkane hydroisomerization reaction on Pt-doped Î³-alumina catalyst. Petroleum, 2017, 3, 489-495.	2.8	26
14	Micellization behaviour of surface active N-alkyl pyridinium dodecylsulphate task-specific ionic liquids in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 203-209.	4.7	24
15	Self-assembly of stimuli-responsive block copolymers in aqueous solutions: an overview. Polymer Bulletin, 2020, 77, 5783-5810.	3.3	24
16	n-Alkane isomerization by catalysisâ€”a method of industrial importance: An overview. Cogent Chemistry, 2018, 4, 1514686.	2.5	21
17	Effective photo-harvesting by dye sensitized solar cell based on dihydrothieno [3,4-b][1,4] dioxine bridge based metal free organic dye. Organic Electronics, 2018, 56, 232-239.	2.6	20
18	Pyridinium-clubbed dicationic ionic liquid electrolytes for efficient next-generation photo harvesting. New Journal of Chemistry, 2018, 42, 6990-6996.	2.8	20

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19	Ionic liquid induced sphere-to-ribbon transition in the block copolymer mediated synthesis of silver nanoparticles. RSC Advances, 2013, 3, 8398.	3.6	19
20	Dependency of Anion and Chain Length of Imidazolium Based Ionic Liquid on Micellization of the Block Copolymer F127 in Aqueous Solution: An Experimental Deep Insight. Polymers, 2017, 9, 285.	4.5	16
21	Reduction of micellar size of PEOâ^'PPOâ^'PEO triblock copolymer in presence of ionic liquid in aqueous solutions: A SANS study. Journal of Dispersion Science and Technology, 2018, 39, 517-521.	2.4	16
22	Development of QCM sensor to detect Î±-terpinyl acetate in cardamom. Sensors and Actuators A: Physical, 2021, 319, 112521.	4.1	15
23	Silica-immobilized ionic liquid BrÃ¸nsted acids as highly effective heterogeneous catalysts for the isomerization of n-heptane and n-octane. RSC Advances, 2020, 10, 15282-15292.	3.6	14
24	Effects of cationic head groups of ionic liquid on micellization in aqueous solution of PEO-PPO-PEO triblock copolymer. Journal of Dispersion Science and Technology, 2017, 38, 1594-1599.	2.4	13
25	Optoelectrical characterization of different fabricated donor substituted benzothiazole based sensitizers for efficient DSSCs. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 372, 35-41.	3.9	13
26	Fabrication and characterization of next generation nano-structured organo-lead halide-based perovskite solar cell. Ionics, 2018, 24, 1227-1233.	2.4	12
27	Fabrication of Dâ€“Ï€â€“A sensitizers based on different donors substituted with a dihydropyrrolo[3,4-c]pyrrole-1,4-dione bridge for DSSCs: influence of the CDCA co-absorbent. New Journal of Chemistry, 2018, 42, 12024-12031.	2.8	12
28	Acidic ionic liquids containing variable cationic head groups for catalytic isomerization of n-hexane. Journal of Molecular Liquids, 2019, 288, 111047.	4.9	12
29	Removal of Aluminum from Leaching Solution of Lepidolite by Adding Ammonium. Jom, 2016, 68, 2653-2658.	1.9	11
30	Economic designing of high-performance flexible supercapacitor based on cotton leaf derived porous carbon and natural ocean water. Journal of Energy Storage, 2021, 40, 102784.	8.1	11
31	Doping effect of aminopyridine analogous in supramolecular quasi-solid polymer electrolyte for DSSCs: improvement in ionic diffusion leading to superior efficiency. Ionics, 2018, 24, 1235-1242.	2.4	9
32	Systematic study of mono- and tri-TEMPO-based electrolytes for highly efficient next-generation dye-sensitised photo harvesting. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 363, 1-6.	3.9	9
33	Efficient solid state dye sensitized solar cell based on tricationic ionic crystal pyridinuim-imidazolium electrolytes. Organic Electronics, 2018, 56, 260-267.	2.6	8
34	Concisely modularized assembling of graphene-based thin films with promising electrode performance. Materials Chemistry Frontiers, 2019, 3, 1462-1470.	5.9	8
35	Naturally occurring neem gum: An unprecedented green resource for bioelectrochemical flexible energy storage device. International Journal of Energy Research, 2020, 44, 913-924.	4.5	7
36	Balsa wood derived condensed, heteropore-connected 3D carbonâ€“ sojourn from herbal, non-hazardous stuff to flexible energy-storage device. Journal of Energy Storage, 2021, 34, 102183.	8.1	7

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37	Designing and fabrication of phenothiazine and carbazole based sensitizers for photocatalytic water splitting application. International Journal of Hydrogen Energy, 2018, 43, 17057-17063.	7.1	4
38	Morphological and opto-electrical studies of newly decorated nano organo-lead halide-based perovskite photovoltaics. Journal of Sol-Gel Science and Technology, 2019, 92, 548-553.	2.4	1
39	Nano-Structured Superacidic Sulfated Zirconium Oxide Catalyst: Synthesis, Characterization and Application in One-Pot Isomerization of n-Alkanes Predicting Their Reaction-Kinetics. Energy and Environment Focus, 2017, 6, 88-95.	0.3	0