

Rashi Gusain

List of Publications by Year in descending order

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46
papers

3,082
citations

236925

25
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorptive removal and photocatalytic degradation of organic pollutants using metal oxides and their composites: A comprehensive review. <i>Advances in Colloid and Interface Science</i> , 2019, 272, 102009.	14.7	490
2	Recent advances in carbon nanomaterial-based adsorbents for water purification. <i>Coordination Chemistry Reviews</i> , 2020, 405, 213111.	18.8	329
3	Reduced graphene oxide@CuO nanocomposites for photocatalytic conversion of CO ₂ into methanol under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 352-362.	20.2	286
4	Hierarchical Microspheres of MoS ₂ Nanosheets: Efficient and Regenerative Adsorbent for Removal of Water-Soluble Dyes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7124-7131.	3.7	179
5	Alkyl-Chain-Grafted Hexagonal Boron Nitride Nanoplatelets as Oil-Dispersible Additives for Friction and Wear Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3708-3716.	8.0	145
6	Efficient Removal of Pb(II) and Cd(II) from Industrial Mine Water by a Hierarchical MoS ₂ /SH-MWCNT Nanocomposite. <i>ACS Omega</i> , 2019, 4, 13922-13935.	3.5	133
7	Recent advances in adsorptive removal of heavy metal and metalloid ions by metal oxide-based nanomaterials. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214100.	18.8	131
8	Covalently attached graphene@ionic liquid hybrid nanomaterials: synthesis, characterization and tribological application. <i>Journal of Materials Chemistry A</i> , 2016, 4, 926-937.	10.3	129
9	Halogen-Free Bis(imidazolium)/Bis(ammonium)-Di[bis(salicylato)borate] Ionic Liquids As Energy-Efficient and Environmentally Friendly Lubricant Additives. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15318-15328.	8.0	126
10	Ultrasound assisted shape regulation of CuO nanorods in ionic liquids and their use as energy efficient lubricant additives. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5612.	10.3	95
11	Fatty acid ionic liquids as environmentally friendly lubricants for low friction and wear. <i>RSC Advances</i> , 2016, 6, 3462-3469.	3.6	95
12	Fatty-Acid-Constituted Halogen-Free Ionic Liquids as Renewable, Environmentally Friendly, and High-Performance Lubricant Additives. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 856-865.	3.7	90
13	Removal of naphthalene from simulated wastewater through adsorption-photodegradation by ZnO/Ag/GO nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 393-404.	5.8	89
14	Halogen-free imidazolium/ammonium-bis(salicylato)borate ionic liquids as high performance lubricant additives. <i>RSC Advances</i> , 2014, 4, 1293-1301.	3.6	63
15	Polypyrrole-Promoted rGO@MoS ₂ Nanocomposites for Enhanced Photocatalytic Conversion of CO ₂ and H ₂ O to CO, CH ₄ , and H ₂ Products. <i>ACS Applied Energy Materials</i> , 2020, 3, 9897-9909.	5.1	61
16	MoS ₂ Nanosheet/ZnS Composites for the Visible-Light-Assisted Photocatalytic Degradation of Oxytetracycline. <i>ACS Applied Nano Materials</i> , 2021, 4, 4721-4734.	5.0	61
17	PEG-mediated hydrothermal synthesis of hierarchical microspheres of MoS ₂ nanosheets and their potential for lubrication application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 87-94.	5.8	55
18	Halogen-free ionic liquids: effect of chelated orthoborate anion structure on their lubrication properties. <i>RSC Advances</i> , 2015, 5, 25287-25294.	3.6	50

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19	Physicochemical and tribophysical properties of trioctylalkylammonium bis(salicylato)borate (N888n-BScB) ionic liquids: effect of alkyl chain length. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6433-6442.	2.8	50
20	Fatty acids-derived protic ionic liquids as lubricant additive to synthetic lube base oil for enhancement of tribological properties. <i>Journal of Molecular Liquids</i> , 2019, 293, 111444.	4.9	49
21	Octadecanethiol-grafted molybdenum disulfide nanosheets as oil-dispersible additive for reduction of friction and wear. <i>FlatChem</i> , 2017, 3, 16-25.	5.6	44
22	Fatty acid-derived ionic liquids as renewable lubricant additives: Effect of chain length and unsaturation. <i>Journal of Molecular Liquids</i> , 2020, 301, 112322.	4.9	38
23	Direct growth of nanostructural MoS ₂ over the h-BN nanoplatelets: An efficient heterostructure for visible light photoreduction of CO ₂ to methanol. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101345.	6.8	33
24	Transport and Association of Ions in Lithium Battery Electrolytes Based on Glycol Ether Mixed with Halogen-Free Orthoborate Ionic Liquid. <i>Scientific Reports</i> , 2017, 7, 16340.	3.3	31
25	Organophosphate anion based low viscosity ionic liquids as oil-miscible additives for lubrication enhancement. <i>Journal of Molecular Liquids</i> , 2018, 272, 430-438.	4.9	26
26	Oil-miscible, halogen-free, and surface-active lauryl sulphate-derived ionic liquids for enhancement of tribological properties. <i>Journal of Molecular Liquids</i> , 2020, 318, 114005.	4.9	23
27	Bismuth Molybdate Nanoplates Supported on Reduced Graphene Oxide: An Effective Nanocomposite for the Removal of Naphthalene via Adsorption-Photodegradation. <i>ACS Omega</i> , 2021, 6, 16783-16794.	3.5	22
28	Thermophysical properties of trioctylalkylammonium bis(salicylato)borate ionic liquids: Effect of alkyl chain length. <i>Journal of Molecular Liquids</i> , 2018, 269, 540-546.	4.9	21
29	Ionic-Liquid-Functionalized Copper Oxide Nanorods for Photocatalytic Splitting of Water. <i>ChemPlusChem</i> , 2016, 81, 489-495.	2.8	18
30	Self-assembled thin film of imidazolium ionic liquid on a silicon surface: Low friction and remarkable wear-resistivity. <i>Applied Surface Science</i> , 2016, 364, 878-885.	6.1	18
31	Tuning the band-gap of h-boron nitride nanoplatelets by covalent grafting of imidazolium ionic liquids. <i>RSC Advances</i> , 2016, 6, 21119-21126.	3.6	16
32	Antimicrobial and lubrication properties of 1-acetyl-3-hexylbenzotriazolium benzoate/sorbate ionic liquids. <i>RSC Advances</i> , 2016, 6, 46567-46572.	3.6	10
33	Microtribological properties of a spin-coated thin film of 1-butyl-3-(propyltrimethoxysilane)imidazolium bis(mandelato)borate ionic liquid. <i>RSC Advances</i> , 2016, 6, 78296-78302.	3.6	8
34	One-dimensional carbon nanomaterials-based adsorbents. , 2020, , 195-224.		8
35	Adsorption in the context of water purification. , 2020, , 67-100.		6
36	Water purification using various technologies and their advantages and disadvantages. , 2020, , 37-66.		4

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37	Carbon nanomaterials: synthesis, functionalization, and properties. , 2020, , 137-179.		4
38	Effect of reaction parameters on the adsorption. , 2020, , 119-135.		3
39	Two-dimensional carbon nanomaterials-based adsorbents. , 2020, , 225-273.		2
40	Regeneration and recyclability of carbon nanomaterials after adsorption. , 2020, , 349-363.		1
41	Conducting polymer-functionalized carbon nanomaterials-based adsorbents. , 2020, , 327-340.		1
42	Zero-dimensional carbon nanomaterials-based adsorbents. , 2020, , 181-193.		0
43	Biopolymer-functionalized carbon nanomaterials-based adsorbents. , 2020, , 297-326.		0
44	Carbon-based nano/micromotors for adsorption. , 2020, , 341-347.		0
45	Toxicity of carbon nanomaterials. , 2020, , 365-385.		0
46	Outlook and future research, development, and innovation directions. , 2020, , 387-392.		0