Soumen Basu

List of Publications by Year in descending order

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226	11,994	32410	37326
papers	citations	55 h-index	100 g-index

227	227	227	14602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of tracer technology in wastewater treatment processes: a review. Chemical Engineering Communications, 2023, 210, 16-33.	1.5	1
2	Silicon-based hybrid nanoparticles: An introduction. , 2022, , 1-9.		0
3	Post-fabrication structural changes and enhanced photodegradation activity of semiconductors@zeolite composites towards noxious contaminants. Chemosphere, 2022, 288, 132609.	4.2	10
4	Hydrogen production technologies - Membrane based separation, storage and challenges. Journal of Environmental Management, 2022, 302, 113963.	3.8	64
5	Remediation of per- and polyfluoroalkyls (PFAS) via electrochemical methods. Chemical Engineering Journal, 2022, 430, 132895.	6.6	63
6	Surfactant-derived water-soluble carbon dots for quantitative determination of fluoride via a turn-offâ€“on strategy. New Journal of Chemistry, 2022, 46, 686-694.	1.4	6
7	Yellow emissive carbon dots in ludox silica matrix with anticancer activity for enhanced imaging of developed sweat latent fingermarks. Materials Today Chemistry, 2022, 23, 100659.	1.7	3
8	Engineered biochar: A way forward to environmental remediation. Fuel, 2022, 311, 122510.	3.4	38
9	Removal of Endocrine-Disrupting Compounds by Wastewater Treatment. Environmental Science and Engineering, 2022, , 129-151.	0.1	3
10	Versatile Graphitized Carbon Nanofibers in Energy Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 1334-1360.	3.2	18
11	Deciphering the role of Î²-phase Bi2O3 nanorods incorporated on g-C3N4 nanosheets for efficient pollutant removal. Journal of Physics and Chemistry of Solids, 2022, 164, 110625.	1.9	11
12	Effect of Graphene Oxide Dispersed Natural Ester Based Insulating Oil on Transformer Solid Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 378-385.	1.8	5
13	Coal-derived graphene quantum dots with a Mn²⁺/Mn⁷⁺ nanosensor for selective detection of glutathione by a fluorescence switch-offâ€“on assay. New Journal of Chemistry, 2022, 46, 7545-7556.	1.4	17
14	Skin Patchable Sensor Surveillance for Continuous Glucose Monitoring. ACS Applied Bio Materials, 2022, 5, 945-970.	2.3	27
15	Combination of MoS2 nanopetals with Ag nanoparticles decorated graphene oxide for boosting photocatalytic abatement of recalcitrant pollutants under visible light irradiation. Advanced Powder Technology, 2022, 33, 103555.	2.0	7
16	Efficient eradication of antibiotic and dye by C-dots@zeolite nanocomposites: Performance evaluation, and degraded products analysis. Chemosphere, 2022, 298, 134260.	4.2	10
17	Two-dimensional ultrathin metal-based nanosheets for photocatalytic CO2 conversion to solar fuels. Journal of Environmental Management, 2022, 313, 114916.	3.8	11
18	Morphology Effect of One-Dimensional MnO₂ Nanostructures on Heteroatom-Doped Carbon Dot-Based Biosensors for Selective Detection of Glutathione. ACS Applied Bio Materials, 2022, 5, 2355-2364.	2.3	8

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19	Novel tablet-like Bi3TaO7/BiOCl 2D-2D heterostructure with heightened charge segregation for Visible-light-driven photocatalytic pollutants degradation. Journal of Solid State Chemistry, 2022, 312, 123249.	1.4	5
20	Microplastics and Nanoplastics in Aquatic Environment. Health Information Systems and the Advancement of Medical Practice in Developing Countries, 2022, , 71-89.	0.1	0
21	Fabrication of carnation flower-like Bi3TaO7/Ag/BiVO4 ternary photocatalyst for boosting pollutants degradation under visible light. Journal of Solid State Chemistry, 2022, 313, 123294.	1.4	5
22	Preparation and characterization of polypropylene/polylactide blends and nanocomposites and their biodegradation study. Journal of Thermoplastic Composite Materials, 2021, 34, 725-744.	2.6	15
23	Fabrication of centimeter-sized Sb2S3/SiO2 monolithic mimosa pudica nanoflowers for remediation of hazardous pollutants from industrial wastewater. Journal of Cleaner Production, 2021, 280, 124525.	4.6	54
24	Microplastics in the environment: Occurrence, perils, and eradication. Chemical Engineering Journal, 2021, 408, 127317.	6.6	137
25	Tuning the photocatalytic/electrocatalytic properties of MoS₂/MoSe₂ heterostructures by varying the weight ratios for enhanced wastewater treatment and hydrogen production. RSC Advances, 2021, 11, 22585-22597.	1.7	26
26	Behavior of Mechanical Joints Prepared from EB Cured CFRP Nanocomposites Subjected to Hygrothermal Aging Under Bolt Preloads. Applied Composite Materials, 2021, 28, 271-296.	1.3	8
27	Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019-nCoV). ACS Applied Bio Materials, 2021, 4, 1178-1190.	2.3	40
28	Biosensors Based on MnO₂ Nanostructures: A Review. ACS Applied Nano Materials, 2021, 4, 2285-2302.	2.4	71
29	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials. Materials Today Chemistry, 2021, 19, 100399.	1.7	50
30	Structural framework effect of various CeO2-loaded zeolites on the adsorptive removal of fipronil. Journal of Environmental Chemical Engineering, 2021, 9, 105167.	3.3	15
31	Aging of bolted joints prepared from electronâ€beamâ€cured multiwalled carbon nanotubeâ€based nanocomposites with variable torques. Polymer Composites, 2021, 42, 4082-4104.	2.3	5
32	Morphology-Dependent Performance of MnO₂Nanostructureâ€“Carbon Dot-Based Biosensors for the Detection of Glutathione. ACS Applied Bio Materials, 2021, 4, 5158-5168.	2.3	30
33	Visible-light-driven efficient photocatalytic abatement of recalcitrant pollutants by centimeter-length MoO3/SiO2 monoliths with long service life. Applied Materials Today, 2021, 23, 101033.	2.3	17
34	Versatile fullerenes as sensor materials. Materials Today Chemistry, 2021, 20, 100454.	1.7	28
35	Modulated BiOCl nanoplates with porous g-C3N4 nanosheets for photocatalytic degradation of color/colorless pollutants in natural sunlight. Journal of Physics and Chemistry of Solids, 2021, 154, 110064.	1.9	62
36	Residence time distribution studies on recycle reactor with recirculation. International Journal of Chemical Reactor Engineering, 2021, 19, 1075-1088.	0.6	1

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37	Single-crystalline 2D BiOCl nanorods decorated with 2D MoS2 nanosheets for visible light-driven photocatalytic detoxification of organic and inorganic pollutants. FlatChem, 2021, 28, 100267.	2.8	29
38	Ternary g-C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e278" altimg="si13.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e286" altimg="si14.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>/Ag/BiVO<mml:math xmlns:	3.0	26
39	In-situ dual effect of Ag-Fe-TiO2 composite for the photocatalytic degradation of Ciprofloxacin in aqueous solution. Chemosphere, 2021, 276, 130180.	4.2	26
40	Development of Graphene Oxide Dispersed Natural Ester Based Insulating Oil for Transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1326-1333.	1.8	13
41	Photocatalytic water splitting hydrogen production via environmental benign carbon based nanomaterials. International Journal of Hydrogen Energy, 2021, 46, 33696-33717.	3.8	113
42	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods. Chemical Engineering Journal, 2021, 421, 129816.	6.6	50
43	Dielectric behavior of natural ester based mineral oil blend dispersed with TiO2 and ZnO nanoparticles as insulating fluid for transformers. Journal of Molecular Liquids, 2021, 339, 116825.	2.3	18
44	Fabrication of 3D porous peony flower-like <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e278" altimg="si41.svg"><mml:mi>Î²</mml:mi></mml:math>-Bi2O3/BiOCl heterostructure for synergistically boosting the visible-light-driven degradation of organic pollutants. Environmental Technology and Innovation, 2021, 24, 101956.	3.0	11
45	Solar-light-driven photocatalysis by Sb2S3/carbon based composites towards degradation of noxious organic pollutants. Materials Chemistry and Physics, 2021, 273, 125120.	2.0	30
46	2D materials and its heterostructured photocatalysts: Synthesis, properties, functionalization and applications in environmental remediation. Journal of Environmental Chemical Engineering, 2021, 9, 106408.	3.3	28
47	Construction of an efficient and durable hierarchical porous CuO/SiO2 monolith for synergistically boosting the visible-light-driven degradation of organic pollutants. Separation and Purification Technology, 2021, 279, 119759.	3.9	16
48	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C3N4). Chemical Engineering Journal, 2021, 425, 131402.	6.6	68
49	Photocatalytic conversion of CO2 into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability. Chemical Engineering Journal, 2021, 425, 131401.	6.6	12
50	Nanomolar level detection of metal ions by improving the monodispersity and stability of nitrogen-doped graphene quantum dots. New Journal of Chemistry, 2021, 45, 19941-19949.	1.4	14
51	Recent advances in heteroatom-doped graphene quantum dots for sensing applications. RSC Advances, 2021, 11, 25586-25615.	1.7	56
52	MoS2/WO3 heterojunction with the intensified photocatalytic performance for decomposition of organic pollutants under the broad array of solar light. Journal of Cleaner Production, 2021, 324, 129290.	4.6	59
53	Complete removal of endocrine disrupting compound and toxic dye by visible light active porous g-C3N4/H-ZSM-5 nanocomposite. Chemosphere, 2020, 241, 124981.	4.2	79
54	Highly reusable visible light active hierarchical porous WO3/SiO2 monolith in centimeter length scale for enhanced photocatalytic degradation of toxic pollutants. Separation and Purification Technology, 2020, 231, 115916.	3.9	128

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55	CO₂ capture on activated carbon from PET (polyethylene terephthalate) waste: Kinetics and modeling studies. Chemical Engineering Communications, 2020, 207, 1031-1047.	1.5	11
56	Residence time distribution measurements in an industrial-scale pulp digester using technetium-99m as radiotracer. Journal of Radioanalytical and Nuclear Chemistry, 2020, 323, 1373-1379.	0.7	7
57	Deciphering the interaction of solvents with dual emissive carbon dots: A photoluminescence study and its response for different metal ions. Materials Science and Engineering C, 2020, 108, 110443.	3.8	17
58	Visible-light-induced enhanced photocatalytic degradation of Rhodamine-B dye using BixSb2-xS3 solid-solution photocatalysts. Journal of Colloid and Interface Science, 2020, 561, 71-82.	5.0	36
59	Preparation of novel porous ceramic microfiltration membranes from fly ash, kaolin and dolomite mixtures. Ceramics International, 2020, 46, 6889-6898.	2.3	48
60	Development of sulphur-doped carbon monolith derived from phenol-formaldehyde resin for fixed bed CO2 adsorption. Environmental Technology and Innovation, 2020, 20, 101104.	3.0	12
61	2D/2d heterojunction of MoS2/g-C3N4 nanoflowers for enhanced visible-light-driven photocatalytic and electrochemical degradation of organic pollutants. Journal of Environmental Management, 2020, 274, 111208.	3.8	145
62	The COVID-19 paradox: Impact on India and developed nations of the world. Sensors International, 2020, 1, 100026.	4.9	12
63	Indians vs.COVID-19: The scenario of mental health. Sensors International, 2020, 1, 100038.	4.9	13
64	Waste-to-energy nexus: A sustainable development. Environmental Pollution, 2020, 267, 115501.	3.7	106
65	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production. FlatChem, 2020, 24, 100200.	2.8	80
66	Label-free detection of creatinine using nitrogen-passivated fluorescent carbon dots. RSC Advances, 2020, 10, 36253-36264.	1.7	26
67	Poly(eriochrome black T) modified electrode for electrosensing of methdilazine. Materials Science in Semiconductor Processing, 2020, 120, 105261.	1.9	39
68	Sustainable environmental management and related biofuel technologies. Journal of Environmental Management, 2020, 273, 111096.	3.8	132
69	Spectral characteristics upon harvesting plasmonic hot electrons at the Ag/ZnO heteromicrostructures. Materials Advances, 2020, 1, 2897-2907.	2.6	3
70	Carbon Dotâ€“MnO₂ Nanosphere Composite Sensors for Selective Detection of Glutathione. ACS Applied Nano Materials, 2020, 3, 5955-5964.	2.4	66
71	Current treatment protocol for COVID-19 in India. Sensors International, 2020, 1, 100013.	4.9	21
72	Invasion of novel corona virus (COVID-19) in Indian territory. Sensors International, 2020, 1, 100012.	4.9	18

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73	Skin-Patchable Electrodes for Biosensor Applications: A Review. ACS Biomaterials Science and Engineering, 2020, 6, 1823-1835.	2.6	98
74	The effect of radiation curing on mechanical joints prepared from carbon nanotubes added carbon/epoxy laminates. Polymer Composites, 2020, 41, 4260-4276.	2.3	8
75	Highly fluorescent carbon dots derived from Mangifera indica leaves for selective detection of metal ions. Science of the Total Environment, 2020, 720, 137604.	3.9	83
76	Waste-to-energy nexus for circular economy and environmental protection: Recent trends in hydrogen energy. Science of the Total Environment, 2020, 713, 136633.	3.9	249
77	Recent developments in ionic liquid-based electrolytes for energy storage supercapacitors and rechargeable batteries. , 2020, , 199-221.		16
78	Synthesis of mesoporous magnetic Fe2O3/g-C3N4 monoliths for Rhodamine B removal. Microporous and Mesoporous Materials, 2020, 303, 110299.	2.2	41
79	Effect of pro-oxidant concentration on characteristics of packaging films of cobalt stearate filled polypropylene. Journal of Polymer Engineering, 2020, 40, 637-646.	0.6	3
80	Synthesis of coral like WO3/g-C3N4 nanocomposites for the removal of hazardous dyes under visible light. Journal of Alloys and Compounds, 2019, 808, 151734.	2.8	91
81	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production â€“ A review. Journal of Environmental Management, 2019, 250, 109486.	3.8	211
82	Carbon Clothâ€based Hybrid Materials as Flexible Electrochemical Supercapacitors. ChemElectroChem, 2019, 6, 5771-5786.	1.7	129
83	Adsorption of CO2 on KOH activated carbon adsorbents: Effect of different mass ratios. Journal of Environmental Management, 2019, 250, 109457.	3.8	52
84	Synthesis of sulphur enriched carbon monoliths for dynamic CO2 capture. Chemical Engineering Journal, 2019, 374, 1-9.	6.6	31
85	CO2 capture by modified porous carbon adsorbents: Effect of various activating agents. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 438-447.	2.7	46
86	Residence time distribution measurements in an ethyl acetate reactor using radiotracer technique. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 711-723.	0.7	4
87	Influence of manganese on multiferroic and electrical properties of lanthanum ferrite nanoparticles. Materials Research Express, 2019, 6, 085032.	0.8	6
88	Graphitic carbon nitride (gâ€“C3N4)â€“based metal-free photocatalysts for water splitting: A review. Carbon, 2019, 149, 693-721.	5.4	618
89	Porous carbons derived from polyethylene terephthalate (PET) waste for CO2 capture studies. Journal of Environmental Management, 2019, 242, 68-80.	3.8	61
90	Chemically activated nanoporous carbon adsorbents from waste plastic for CO2 capture: Breakthrough adsorption study. Microporous and Mesoporous Materials, 2019, 282, 146-158.	2.2	113

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91	Adsorptive removal of fipronil from its aqueous solution by modified zeolite HZSM-5: Equilibrium, kinetic and thermodynamic study. Journal of Molecular Liquids, 2019, 283, 867-878.	2.3	52
92	Synthesis of Fe2O3/TiO2 monoliths for the enhanced degradation of industrial dye and pesticide via photo-Fenton catalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 376, 32-42.	2.0	83
93	Enhanced photocatalytic degradation of industrial dye by g-C3N4/TiO2 nanocomposite: Role of shape of TiO2. Advanced Powder Technology, 2019, 30, 1089-1098.	2.0	135
94	Metal oxide nanohybrids-based low-temperature sensors for NO2 detection: a short review. Journal of Materials Science: Materials in Electronics, 2019, 30, 8160-8170.	1.1	27
95	Dynamic CO2 adsorption on activated carbon adsorbents synthesized from polyacrylonitrile (PAN): Kinetic and isotherm studies. Microporous and Mesoporous Materials, 2019, 280, 357-366.	2.2	63
96	Role of conducting polymer and metal oxide-based hybrids for applications in ampereometric sensors and biosensors. Microchemical Journal, 2019, 147, 7-24.	2.3	279
97	Furfuryl alcohol-derived carbon monoliths for CO2 capture: adsorption isotherm and kinetic study. IOP Conference Series: Materials Science and Engineering, 2019, 625, 012014.	0.3	2
98	Biogenic ZnO nanoparticles: a study of blueshift of optical band gap and photocatalytic degradation of reactive yellow 186 dye under direct sunlight. Green Processing and Synthesis, 2019, 8, 272-280.	1.3	92
99	Recent Progress in TiO2- and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation. , 2019, , 815-843.		11
100	Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots. , 2019, , 759-781.		28
101	Degradation of toxic industrial dyes using SnO2/g-C3N4 nanocomposites: Role of mass ratio on photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 136-143.	2.0	67
102	Natural polymer based composite membranes for water purification: a review. Polymer-Plastics Technology and Materials, 2019, 58, 1295-1310.	0.6	22
103	Efficient metal ion adsorption and photodegradation of Rhodamine-B by hierarchical porous Fe-Ni@SiO2 monolith. Microchemical Journal, 2019, 145, 708-717.	2.3	16
104	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions. Materials Science and Engineering C, 2019, 95, 72-77.	3.8	32
105	Adsorption of heavy metal ions by mesoporous ZnO and TiO2@ZnO monoliths: Adsorption and kinetic studies. Microchemical Journal, 2019, 145, 105-112.	2.3	118
106	SnS2/RGO based nanocomposite for efficient photocatalytic degradation of toxic industrial dyes under visible-light irradiation. Journal of Alloys and Compounds, 2019, 774, 625-636.	2.8	94
107	Adsorption of CO2 on KOH activated, N-enriched carbon derived from urea formaldehyde resin: kinetics, isotherm and thermodynamic studies. Applied Surface Science, 2018, 439, 760-771.	3.1	90
108	Fructose modified synthesis of ZnO nanoparticles and its application for removal of industrial pollutants from water. Journal of Materials Science: Materials in Electronics, 2018, 29, 7364-7371.	1.1	28

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109	Effect of Surfactants on the Structure and Adsorption Efficiency of Hydroxyapatite Nanorods. Journal of Nanoscience and Nanotechnology, 2018, 18, 623-633.	0.9	7
110	Quantitative Detection of Thiopurines by Inter-particle Distance-Dependent Properties of Gold Nanoparticles. Plasmonics, 2018, 13, 1785-1793.	1.8	4
111	Green synthesis of silver nanoparticles using sun dried tulsi leaves and its catalytic application for 4-Nitrophenol reduction. Journal of Environmental Chemical Engineering, 2018, 6, 1468-1474.	3.3	119
112	Effect of different plasmonic metals on photocatalytic degradation of volatile organic compounds (VOCs) by bentonite/M-TiO 2 nanocomposites under UV/visible light. Applied Clay Science, 2018, 153, 144-153.	2.6	34
113	Biosynthesis of tin oxide nanoparticles using Psidium Guajava leave extract for photocatalytic dye degradation under sunlight. Materials Letters, 2018, 215, 121-124.	1.3	112
114	Development of chemically activated N-enriched carbon adsorbents from urea-formaldehyde resin for CO2 adsorption: Kinetics, isotherm, and thermodynamics. Journal of Environmental Management, 2018, 218, 579-592.	3.8	46
115	Optical Detection of Thiol Drugs by Coreâ€“Shell Luminous Carbon Dotsâ€”Gold Nanoparticles System. Plasmonics, 2018, 13, 2239-2248.	1.8	12
116	Biodegradation of Pro-oxidant Filled Polypropylene Films and Evaluation of the Ecotoxicological Impact. Journal of Polymers and the Environment, 2018, 26, 1061-1071.	2.4	14
117	Morphology, rheology and biodegradation of oxo-degradable polypropylene/polylactide blends. Journal of Polymer Engineering, 2018, 38, 239-249.	0.6	12
118	4-Nitrophenol reduction catalysed by Au-Ag bimetallic nanoparticles supported on LDH: Homogeneous vs. heterogeneous catalysis. Applied Clay Science, 2018, 151, 1-9.	2.6	154
119	Evaluation of Biodegradability of Potato Peel Powder Based Polyolefin Biocomposites. Journal of Polymers and the Environment, 2018, 26, 2049-2060.	2.4	9
120	CO 2 adsorption on oxygen enriched porous carbon monoliths: Kinetics, isotherm and thermodynamic studies. Journal of Industrial and Engineering Chemistry, 2018, 60, 321-332.	2.9	39
121	Enhanced dye degradation using hydrothermally synthesized nanostructured Sb2S3/rGO under visible light irradiation. Journal of Alloys and Compounds, 2018, 735, 234-245.	2.8	52
122	A sensitive turn on fluorescent probe for detection of biothiols using MnO2@carbon dots nanocomposites. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 411-419.	2.0	42
123	Dielectric properties and activation behavior of gadolinium doped nanocrystalline yttrium chromite. AIP Conference Proceedings, 2018, , .	0.3	0
124	Clay supported TiO2 nanoparticles for photocatalytic degradation of environmental pollutants: A review. Journal of Environmental Chemical Engineering, 2018, 6, 6088-6107.	3.3	124
125	Fluorescent carbon dot decorated MnO₂ nanorods for complete photomineralization of phenol from water. Environmental Science: Water Research and Technology, 2018, 4, 2012-2020.	1.2	12
126	Remediation of heavy metal ions using hierarchically porous carbon monolith synthesized via nanocasting method. Journal of Environmental Chemical Engineering, 2018, 6, 2829-2836.	3.3	10

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127	A facile means for the improvement of sensing properties of metal-organic frameworks through control on the key synthesis variables. Sensors and Actuators B: Chemical, 2018, 271, 157-163.	4.0	17
128	Implementation of a logic gate by chemically induced nitrogen and oxygen rich C-dots for the selective detection of fluoride ions. New Journal of Chemistry, 2018, 42, 12162-12171.	1.4	15
129	Heavy metal ions adsorption and photodegradation of remazol black XP by iron oxide/silica monoliths: Kinetic and equilibrium modelling. Advanced Powder Technology, 2018, 29, 2268-2279.	2.0	38
130	Circulating Fluid-Bed Studies for CO₂ Capture from Flue Gas using K₂CO₃/Al₂O₃ Adsorbent. Energy & Fuels, 2018, 32, 8594-8604.	2.5	12
131	Thermal degradation kinetics of oxo-degradable PP/PLA blends. Journal of Polymer Engineering, 2018, 39, 58-67.	0.6	7
132	Electrode materials for lithium-ion batteries. Materials Science for Energy Technologies, 2018, 1, 182-187.	1.0	89
133	Bioconjugation of luminescent Eu-BDC-NH2 MOFs for highly efficient sensing of BSA. AIP Conference Proceedings, 2018, , .	0.3	2
134	A comparative study on the effect of different precursors for synthesis and efficient photocatalytic activity of g-C3N4/TiO2/bentonite nanocomposites. Journal of Materials Science, 2018, 53, 13126-13142.	1.7	32
135	Synthesis of porous carbon monolith adsorbents for carbon dioxide capture: Breakthrough adsorption study. Journal of the Taiwan Institute of Chemical Engineers, 2018, 89, 140-150.	2.7	19
136	Effect of g-C3N4 loading on TiO2/Bentonite nanocomposites for efficient heterogeneous photocatalytic degradation of industrial dye under visible light. Journal of Alloys and Compounds, 2018, 764, 406-415.	2.8	74
137	Carbon quantum dots/TiO2 nanocomposite for sensing of toxic metals and photodetoxification of dyes with kill waste by waste concept. Materials and Design, 2018, 155, 485-493.	3.3	30
138	Low Temperature Synthesis of Elongated Triangular Bipyramidal ZnO Nanostructures for Photocatalytic Activity. Journal of Nano Research, 2018, 52, 1-14.	0.8	0
139	Structural, Magnetic and Optical Properties of Lanthanum Ferrite Nanoparticles with Application Perspective. Advanced Science Letters, 2018, 24, 913-917.	0.2	1
140	Variation of surface area of silica monoliths by controlling ionic character/chain length of surfactants and polymers. Materials Letters, 2017, 194, 213-216.	1.3	14
141	Dye degradation of spherical and rod-shaped CuO semiconductor nanoparticles. Emerging Materials Research, 2017, 6, 40-46.	0.4	3
142	Synthesis of Mesoporous Cerium Oxide (CeO2) Nanoparticles and Effect of Cerium Precursors on Transamidation of Acetamide with N-Octylamine Under Solvent-Free Conditions. Journal of Nanoscience and Nanotechnology, 2017, 17, 4983-4988.	0.9	5
143	Controlled photocatalytic hydrolysis of nitriles to amides by mesoporous MnO 2 nanoparticles fabricated by mixed surfactant mediated approach. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 343, 1-6.	2.0	17
144	Epoxy based oxygen enriched porous carbons for CO 2 capture. Applied Surface Science, 2017, 414, 380-389.	3.1	33

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145	Melamine-formaldehyde derived porous carbons for adsorption of CO 2 capture. Journal of Environmental Management, 2017, 197, 415-427.	3.8	64
146	Enhanced photocatalytic water splitting by gold carbon dot core shell nanocatalyst under visible/sunlight. New Journal of Chemistry, 2017, 41, 4573-4581.	1.4	42
147	Ag + and Cu 2+ doped CdS nanorods with tunable band structure and superior photocatalytic activity under sunlight. Materials Research Bulletin, 2017, 94, 279-286.	2.7	13
148	Effective removal of metal ions from aqueous solution by mesoporous MnO 2 and TiO 2 monoliths: Kinetic and equilibrium modelling. Journal of Alloys and Compounds, 2017, 720, 221-229.	2.8	29
149	Kinetic and isotherm studies on adsorption of toxic pollutants using porous ZnO@SiO2 monolith. Journal of Colloid and Interface Science, 2017, 504, 669-679.	5.0	46
150	Dynamic CO 2 capture by carbon adsorbents: Kinetics, isotherm and thermodynamic studies. Separation and Purification Technology, 2017, 181, 107-122.	3.9	60
151	Prediction of Binary Gas Adsorption of CO₂/N₂ and Thermodynamic Studies on Nitrogen Enriched Nanostructured Carbon Adsorbents. Journal of Chemical & Engineering Data, 2017, 62, 214-225.	1.0	17
152	Impact of Ag nanoparticles on photomineralization of chlorobenzene by TiO 2 /bentonite nanocomposite. Journal of Environmental Chemical Engineering, 2017, 5, 644-651.	3.3	41
153	Effect of Au content on the enhanced photocatalytic efficiency of mesoporous Au/TiO2 nanocomposites in UV and sunlight. Gold Bulletin, 2017, 50, 33-41.	1.1	16
154	Radiotracer investigation and modeling of an activated sludge system in a pulp and paper industry. Applied Radiation and Isotopes, 2017, 130, 270-275.	0.7	11
155	Radiotracer investigation on the measurement of residence time distribution in an ethyl acetate reactor system with a large recycle ratio. Applied Radiation and Isotopes, 2017, 130, 245-251.	0.7	6
156	Synthesis of heterogeneous Ag-Cu bimetallic monolith with different mass ratios and their performances for catalysis and antibacterial activity. Advanced Powder Technology, 2017, 28, 3085-3094.	2.0	21
157	Enhancement of multiferroic properties and unusual magnetic phase transition in Eu doped bismuth ferrite nanoparticles. New Journal of Chemistry, 2017, 41, 10985-10991.	1.4	33
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