

Ajayan Vinu

List of Publications by Year in descending order

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474
papers

27,627
citations

5248

83
h-index

9311

143
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516
all docs

516
docs citations

516
times ranked

23994
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
2	Self-Assembled Fullerene Nanostructures: Synthesis and Applications. <i>Advanced Functional Materials</i> , 2022, 32, 2106924.	7.8	61
3	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2022, 158, 106908.	4.8	125
4	Substitutional isomerism of triisopropylnaphthalenes in the isopropylation of naphthalene. Assignment by gas chromatography and confirmation by DFT calculation. <i>Research on Chemical Intermediates</i> , 2022, 48, 869-884.	1.3	4
5	Porous carbons derived from Arecanut seeds by direct pyrolysis for efficient CO ₂ capture. <i>Emergent Materials</i> , 2022, 5, 1757-1765.	3.2	5
6	Mesoporous Nanohybrids of 2D Ni-Cr Layered Double Hydroxide Nanosheets Pillared with Polyoxovanadate Anions for High-Performance Hybrid Supercapacitor. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101216.	1.9	16
7	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2022, 32, 2110975.	7.8	30
8	A critical review on the role of abiotic factors on the transformation, environmental identity and toxicity of engineered nanomaterials in aquatic environment. <i>Environmental Pollution</i> , 2022, 296, 118726.	3.7	22
9	Copper nanoparticles decorated N-doped mesoporous carbon with bimodal pores for selective gas separation and energy storage applications. <i>Chemical Engineering Journal</i> , 2022, 431, 134056.	6.6	12
10	Triple Surfactant Assisted Synthesis of Novel Core-Shell Mesoporous Silica Nanoparticles with High Surface Area for Drug Delivery for Prostate Cancer. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 331-340.	2.0	11
11	Metal nitride-based nanostructures for electrochemical and photocatalytic hydrogen production. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 76-119.	2.8	28
12	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. <i>Science of the Total Environment</i> , 2022, 822, 153555.	3.9	174
13	Synthesis of Nitrogen-Rich Carbon Nitride-Based Hybrids and a New Insight of Their Battery Behaviors. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	8
14	Circular economy adoption by SMEs in emerging markets: Towards a multilevel conceptual framework. <i>Journal of Business Research</i> , 2022, 142, 605-619.	5.8	43
15	Nanoporous materials for pesticide formulation and delivery in the agricultural sector. <i>Journal of Controlled Release</i> , 2022, 343, 187-206.	4.8	46
16	Advanced porous borocarbonitride nanoarchitectonics: Their structural designs and applications. <i>Carbon</i> , 2022, 190, 142-169.	5.4	24
17	Highly graphitized porous biocarbon nanosheets with tunable Micro-Meso interfaces and enhanced layer spacing for CO ₂ capture and LIBs. <i>Chemical Engineering Journal</i> , 2022, 433, 134464.	6.6	28
18	Egg-yolk core-shell mesoporous silica nanoparticles for high doxorubicin loading and delivery to prostate cancer cells. <i>Nanoscale</i> , 2022, 14, 6830-6845.	2.8	10

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19	Single metal atoms catalystsâ€”Promising candidates for next generation energy storage and conversion devices. <i>EcoMat</i> , 2022, 4, .	6.8	28
20	Nanomaterialsâ€”based sensors for the detection of COVIDâ€”19: A review. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	21
21	The emergence of nanoporous materials in lung cancer therapy. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 225-274.	2.8	15
22	Nanostructured Metal Phosphide Based Catalysts for Electrochemical Water Splitting: A Review. <i>Small</i> , 2022, 18, e2107572.	5.2	100
23	Ordered Mesoporous Boron Carbon Nitrides with Tunable Mesopore Nanoarchitectonics for Energy Storage and CO ₂ Adsorption Properties. <i>Advanced Science</i> , 2022, 9, e2105603.	5.6	22
24	Hydrazine Hydrate Intercalated 1T-Dominant MoS ₂ with Superior Ambient Stability for Highly Efficient Electrocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16338-16347.	4.0	17
25	Morphologically tunable nanoarchitectonics of mixed kaolin-halloysite derived nitrogen-doped activated nanoporous carbons for supercapacitor and CO ₂ capture applications. <i>Carbon</i> , 2022, 192, 133-144.	5.4	24
26	Layer-by-layer nanohybrids of Ni-Cr-LDH intercalated with 0D polyoxotungstate for highly efficient hybrid supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 548-559.	5.0	30
27	Mesoporous titanium carbonitride derived from mesoporous C ₃ N ₅ for highly efficient hydrogen evolution reaction. <i>Carbon</i> , 2022, 195, 9-18.	5.4	21
28	Rareâ€”Earth Doped Iron Oxide Nanostructures for Cancer Theranostics: Magnetic Hyperthermia and Magnetic Resonance Imaging. <i>Small</i> , 2022, 18, e2104855.	5.2	39
29	Nanoporous TiCN with High Specific Surface Area for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2022, 5, 12077-12086.	2.4	9
30	Tuning Phase Transition and Thermochromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19736-19746.	4.0	16
31	Super-reductive mesoporous phosphomolybdate with high crystallinity and its excellent performance for Li-ion battery application. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12132-12140.	5.2	8
32	Tuning the enzyme-like activities of cerium oxide nanoparticles using a triethyl phosphite ligand. <i>Biomaterials Science</i> , 2022, 10, 3245-3258.	2.6	6
33	A review on the valorisation of food waste as a nutrient source and soil amendment. <i>Environmental Pollution</i> , 2021, 272, 115985.	3.7	76
34	Nanoporous activated biocarbons with high surface areas from alligator weed and their excellent performance for CO ₂ capture at both low and high pressures. <i>Chemical Engineering Journal</i> , 2021, 406, 126787.	6.6	70
35	Ordered Mesoporous Carbon Nitrides with Tuneable Nitrogen Contents and Basicity for Knoevenagel Condensation. <i>ChemCatChem</i> , 2021, 13, 468-474.	1.8	24
36	Recognizing soft templates as stimulators in multivariate modulation of tin phosphate and its application in catalysis for alkyl levulinate synthesis. <i>Catalysis Science and Technology</i> , 2021, 11, 272-282.	2.1	5

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37	Ultrafine Copper Oxide Particles Dispersed on Nitrogen-Doped Hollow Carbon Nanospheres for Oxidative Esterification of Biomass-Derived 5-Hydroxymethylfurfural. <i>ChemPlusChem</i> , 2021, 86, 259-269.	1.3	9
38	Recent Advances in Functionalized Nanoporous Carbons Derived from Waste Resources and Their Applications in Energy and Environment. <i>Advanced Sustainable Systems</i> , 2021, 5, .	2.7	49
39	Single-Step Synthesis of 2D Mesoporous C60/Carbon Hybrids for Supercapacitor and Li-Ion Battery Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 133-140.	2.0	36
40	An Experimental and Theoretical Investigation on the Oxidation of CO over Pd/C Derived from the Spent Pd Catalyst. <i>ChemCatChem</i> , 2021, 13, 1326-1339.	1.8	3
41	Synthesis of functionalized nanoporous biocarbons with high surface area for CO ₂ capture and supercapacitor applications. <i>Green Chemistry</i> , 2021, 23, 5571-5583.	4.6	62
42	Fine-tuning the water oxidation performance of hierarchical Co ₃ O ₄ nanostructures prepared from different cobalt precursors. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1120-1128.	2.5	4
43	Recent advances in highly active nanostructured NiFe LDH catalyst for electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3180-3208.	5.2	224
44	Recent Progress in Polymorphs of Carbon Nitride: Synthesis, Properties, and Their Applications. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000676.	2.0	26
45	The Isopropylation of Naphthalene over USY Zeolite with FAI Topology. The Selectivities of the Products. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 606-615.	2.0	5
46	Direct Synthesis of Mesoporous Siliceous Phosphotungstic Acid and Its Superior Catalytic Activity on the Cyclohexylation of Phenol. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6723-6734.	1.5	9
47	A Review on the Synthesis and Applications of Nanoporous Carbons for the Removal of Complex Chemical Contaminants. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1232-1257.	2.0	67
48	Recent advances of layered-transition metal oxides for energy-related applications. <i>Energy Storage Materials</i> , 2021, 36, 514-550.	9.5	76
49	Nanoporous carbon oxynitride and its enhanced lithium-ion storage performance. <i>Nano Energy</i> , 2021, 82, 105733.	8.2	13
50	Amine-functionalized natural zeolites prepared through plasma polymerization for enhanced carbon dioxide adsorption. <i>Plasma Processes and Polymers</i> , 2021, 18, 2100028.	1.6	9
51	Vanadium doped 1T MoS ₂ nanosheets for highly efficient electrocatalytic hydrogen evolution in both acidic and alkaline solutions. <i>Chemical Engineering Journal</i> , 2021, 409, 128158.	6.6	98
52	Zn-Doped CeO ₂ Nanorods for Glycerol Carbonylation with CO ₂ . <i>ACS Applied Nano Materials</i> , 2021, 4, 4388-4397.	2.4	23
53	Silica-based nanomaterials as drug delivery tools for skin cancer (melanoma) treatment. <i>Emergent Materials</i> , 2021, 4, 1067-1092.	3.2	14
54	Microporous Carbon Nitride (C ₃ N _{5.4}) with Tetrazine based Molecular Structure for Efficient Adsorption of CO ₂ and Water. <i>Angewandte Chemie</i> , 2021, 133, 21412-21419.	1.6	6

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55	Metal-organic frameworks containing uncoordinated nitrogen: Preparation, modification, and application in adsorption. <i>Materials Today</i> , 2021, 51, 566-585.	8.3	50
56	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021, 416, 125702.	6.5	46
57	Activated Graphene Nanoplatelets Decorated with Carbon Nitrides for Efficient Electrocatalytic Oxygen Reduction Reaction. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100104.	2.8	11
58	Exploring tailor-made Brønsted acid sites in mesopores of tin oxide catalyst for β -alkoxy alcohol and amino alcohol syntheses. <i>Scientific Reports</i> , 2021, 11, 15718.	1.6	12
59	Redox Active Cerium Oxide Nanoparticles: Current Status and Burning Issues. <i>Small</i> , 2021, 17, e2102342.	5.2	79
60	Milk derived highly ordered mesoporous carbon with CaF ₂ nanoclusters as an efficient electrode for supercapacitors. <i>Carbon</i> , 2021, 180, 101-109.	5.4	22
61	Microporous Carbon Nitride (C ₃ N _{5.4}) with Tetrazine based Molecular Structure for Efficient Adsorption of CO ₂ and Water. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21242-21249.	7.2	46
62	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <i>Journal of Hazardous Materials</i> , 2021, 420, 126534.	6.5	150
63	Production, characterisation, utilisation, and beneficial soil application of steel slag: A review. <i>Journal of Hazardous Materials</i> , 2021, 419, 126478.	6.5	57
64	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. <i>Environment International</i> , 2021, 155, 106600.	4.8	74
65	From mine to mind and mobiles – Lithium contamination and its risk management. <i>Environmental Pollution</i> , 2021, 290, 118067.	3.7	58
66	Defects Engineering Induced Ultrahigh Magnetization in Rare Earth Element Nd-doped MoS ₂ . <i>Advanced Quantum Technologies</i> , 2021, 4, 2000093.	1.8	19
67	Tailoring the Pore Size, Basicity, and Binding Energy of Mesoporous C ₃ N ₅ for CO ₂ Capture and Conversion. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3999-4005.	1.7	23
68	Intimately-coordinated carbon nitride-metal sulfide with high π -d conjugation for efficient battery performance. <i>Nano Energy</i> , 2021, 90, 106602.	8.2	9
69	Silica-Based Nanoparticles as Drug Delivery Vehicles for Prostate Cancer Treatment. <i>Chemical Record</i> , 2021, 21, 1535-1568.	2.9	12
70	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions. <i>Chemistry of Materials</i> , 2021, 33, 9012-9092.	3.2	88
71	Nanostructured Carbon Nitrides for CO ₂ Capture and Conversion. <i>Advanced Materials</i> , 2020, 32, e1904635.	11.1	188
72	Mixed Copper/Copper-Oxide Anchored Mesoporous Fullerene Nanohybrids as Superior Electrocatalysts toward Oxygen Reduction Reaction. <i>Small</i> , 2020, 16, e1903937.	5.2	58

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73	High Coercivity and Magnetization in WSe ₂ by Codoping Co and Nb. Small, 2020, 16, e1903173.	5.2	43
74	Amine Functionalized Metal-Organic Framework Coordinated with Transition Metal Ions: Enhanced Transition Enhanced Optical Absorption and Role of Transition Metal Sites on Solar Light Driven H ₂ Production. Small, 2020, 16, e1902990.	5.2	54
75	Physico-chemical modification of natural mordenite-clinoptilolite zeolites and their enhanced CO ₂ adsorption capacity. Microporous and Mesoporous Materials, 2020, 294, 109871.	2.2	52
76	Oxygen functionalized porous activated biocarbons with high surface area derived from grape marc for enhanced capture of CO ₂ at elevated-pressure. Carbon, 2020, 160, 113-124.	5.4	76
77	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. Nano Research, 2020, 13, 18-37.	5.8	214
78	Surface Activation and Reconstruction of Non-Oxide-Based Catalysts Through in Situ Electrochemical Tuning for Oxygen Evolution Reactions in Alkaline Media. ACS Catalysis, 2020, 10, 463-493.	5.5	196
79	Thermodynamically Stable Mesoporous C ₃ N ₇ and C ₃ N ₆ with Ordered Structure and Their Excellent Performance for Oxygen Reduction Reaction. Small, 2020, 16, e1903572.	5.2	53
80	Borophene: New Sensation in Flatland. Advanced Materials, 2020, 32, e2000531.	11.1	118
81	<i>Piper longum</i> Extract-Mediated Green Synthesis of Porous Cu ₂ O:Mo Microspheres and Their Superior Performance as Active Anode Material in Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 14557-14567.	3.2	15
82	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS ₂ Crystals. ACS Applied Materials & Interfaces, 2020, 12, 58140-58148.	4.0	22
83	Carbon Capture and Conversion: Nanostructured Carbon Nitrides for CO ₂ Capture and Conversion (Adv. Mater. 18/2020). Advanced Materials, 2020, 32, 2070142.	11.1	4
84	Recent Advances in Developing Hybrid Materials for Sodium-Ion Battery Anodes. ACS Energy Letters, 2020, 5, 1939-1966.	8.8	149
85	The Influence of Nanoparticle Shape on Protein Corona Formation. Small, 2020, 16, e2000285.	5.2	108
86	Emerging trends in porous materials for CO ₂ capture and conversion. Chemical Society Reviews, 2020, 49, 4360-4404.	18.7	473
87	Highly enhanced photocatalytic hydrogen evolution activity of graphitic carbon nitride with 3D connected mesoporous structure. Sustainable Materials and Technologies, 2020, 25, e00184.	1.7	10
88	Rational design of bifunctional catalyst from KF and ZnO combination on alumina for cyclic urea synthesis from CO ₂ and diamine. Applied Catalysis A: General, 2020, 598, 117550.	2.2	12
89	Copper-catalyzed oxidative methyl-esterification of 5-hydroxymethylfurfural using TBHP as an oxidizing and methylating reagent: A new approach for the synthesis of furan-2,5-dimethylcarboxylate. Journal of Catalysis, 2020, 389, 259-269.	3.1	25
90	Theoretical and experimental investigations of mesoporous C ₃ N ₅ /MoS ₂ hybrid for lithium and sodium ion batteries. Nano Energy, 2020, 72, 104702.	8.2	65

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91	Fabrication of hybrid supercapacitor device based on NiCo ₂ O ₄ @ZnCo ₂ O ₄ and the biomass-derived N-doped activated carbon with a honeycomb structure. <i>Electrochimica Acta</i> , 2020, 342, 136062.	2.6	39
92	Emerging Advanced Nanomaterials and their Applications. <i>Small</i> , 2020, 16, e2001287.	5.2	1
93	Shape and Orientation Controlled Hydrothermal Synthesis of Silicide and Metal Dichalcogenide on a Silicon Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18850-18858.	4.0	10
94	Recent Advances in the Preparation and Applications of Organo-functionalized Porous Materials. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2588-2621.	1.7	33
95	Nanoparticle Shape: The Influence of Nanoparticle Shape on Protein Corona Formation (Small) <i>Tj ETQq1 1 0.784314.rgBT /Overlock 10</i>	5.2	2
96	Electrochemical Performance of rGO/NiCo ₂ O ₄ @ZnCo ₂ O ₄ Ternary Composite Material and the Fabrication of an all-Solid-State Supercapacitor Device. <i>Energy & Fuels</i> , 2020, 34, 10131-10141.	2.5	38
97	Carbon Nanoflakes and Nanotubes from Halloysite Nanoclays and their Superior Performance in CO ₂ Capture and Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11922-11933.	4.0	32
98	Tuning the ATP-triggered pro-oxidant activity of iron oxide-based nanozyme towards an efficient antibacterial strategy. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 154-164.	5.0	50
99	Design of P-Doped Mesoporous Carbon Nitrides as High-Performance Anode Materials for Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24007-24018.	4.0	44
100	Oxygen Reduction Reaction: Thermodynamically Stable Mesoporous C ₃ N ₇ and C ₃ N ₆ with Ordered Structure and Their Excellent Performance for Oxygen Reduction Reaction (Small 12/2020). <i>Small</i> , 2020, 16, 2070064.	5.2	6
101	Enriched Photophysical Properties and Thermal Stability of Tin(II) Substituted Lead-Based Perovskite Nanocrystals with Mixed Organic/Inorganic Cations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9611-9621.	1.5	21
102	Single-Step Synthesis of Mesoporous Carbon Nitride/Molybdenum Sulfide Nanohybrids for High-Performance Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1863-1868.	1.7	9
103	Characterization and Drug Release Control Ability of Chitosan/Lovastatin Particles Coated by Alginate. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7347-7355.	0.9	1
104	3D cubic mesoporous C ₃ N ₄ with tunable pore diameters derived from KIT-6 and their application in base catalyzed Knoevenagel reaction. <i>Catalysis Today</i> , 2019, 324, 33-38.	2.2	39
105	Highly Crystalline Mesoporous Phosphotungstic Acid: A High-Performance Electrode Material for Energy Storage Applications (<i>Angew. Chem.</i> 32/2019). <i>Angewandte Chemie</i> , 2019, 131, 11244-11244.	1.6	0
106	Sulfur-Doped Mesoporous Carbon Nitride with an Ordered Porous Structure for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27192-27199.	4.0	63
107	Borophene: Freestanding Borophene and Its Hybrids (<i>Adv. Mater.</i> 27/2019). <i>Advanced Materials</i> , 2019, 31, 1970196.	11.1	10
108	Characterization and Hydrogen Storage Performance of Halloysite Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7892-7898.	0.9	8

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109	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO ₂ Films. ACS Applied Materials & Interfaces, 2019, 11, 43781-43788.	4.0	8
110	Controlled synthesis of three dimensional mesoporous C ₃ N ₄ with ordered porous structure for room temperature Suzuki coupling reaction. Molecular Catalysis, 2019, 477, 110548.	1.0	7
111	Potential of Raman spectroscopy towards understanding structures of carbon-based materials and perovskites. Emergent Materials, 2019, 2, 417-439.	3.2	27
112	A facile synthesis of activated porous carbon spheres from d-glucose using a non-corrosive activating agent for efficient carbon dioxide capture. Applied Energy, 2019, 255, 113831.	5.1	66
113	Pure and strontium carbonate nanoparticles functionalized microporous carbons with high specific surface areas derived from chitosan for CO ₂ adsorption. Emergent Materials, 2019, 2, 337-349.	3.2	19
114	Convenient design of porous and heteroatom self-doped carbons for CO ₂ capture. Microporous and Mesoporous Materials, 2019, 287, 1-8.	2.2	45
115	Highly Crystalline Mesoporous Phosphotungstic Acid: A High-Performance Electrode Material for Energy-Storage Applications. Angewandte Chemie, 2019, 131, 10965-10970.	1.6	6
116	Highly Crystalline Mesoporous Phosphotungstic Acid: A High-Performance Electrode Material for Energy-Storage Applications. Angewandte Chemie - International Edition, 2019, 58, 10849-10854.	7.2	46
117	Highly ordered iron oxide-mesoporous fullerene nanocomposites for oxygen reduction reaction and supercapacitor applications. Microporous and Mesoporous Materials, 2019, 285, 21-31.	2.2	50
118	Freestanding Borophene and Its Hybrids. Advanced Materials, 2019, 31, e1900353.	11.1	195
119	Biomass derived porous carbon for CO ₂ capture. Carbon, 2019, 148, 164-186.	5.4	356
120	A novel geopolymer route to porous carbon: high CO ₂ adsorption capacity. Chemical Communications, 2019, 55, 3266-3269.	2.2	24
121	High-Performance Biomass-Derived Activated Porous Biocarbons for Combined Pre- and Post-Combustion CO ₂ Capture. ACS Sustainable Chemistry and Engineering, 2019, 7, 7412-7420.	3.2	64
122	Highly ordered mesoporous carbons with high specific surface area from carbonated soft drink for supercapacitor application. Microporous and Mesoporous Materials, 2019, 280, 337-346.	2.2	56
123	Oxygen-Functionalized Mesoporous Activated Carbons Derived from Casein and Their Superior CO ₂ Adsorption Capacity at Both Low- and High-Pressure Regimes. ACS Applied Nano Materials, 2019, 2, 1604-1613.	2.4	41
124	Recent Progress on the Sensing of Pathogenic Bacteria Using Advanced Nanostructures. Bulletin of the Chemical Society of Japan, 2019, 92, 216-244.	2.0	108
125	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. Materials Today, 2019, 25, 88-111.	8.3	180
126	Halloysite nanotubes: Novel and eco-friendly adsorbents for high-pressure CO ₂ capture. Microporous and Mesoporous Materials, 2019, 277, 229-236.	2.2	44

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127	Green synthetic methodology: An evaluative study for impact of surface basicity of MnO ₂ doped MgO nanocomposites in Wittig reaction. <i>Journal of Solid State Chemistry</i> , 2019, 269, 167-174.	1.4	8
128	2D Nanostructured Metal Hydroxides with Gene Delivery and Theranostic Functions; A Comprehensive Review. <i>Chemical Record</i> , 2018, 18, 1033-1053.	2.9	45
129	Additive assisted morphological optimization of photoactive layer in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 246-254.	3.0	39
130	Mesoporous Cu-SBA-15 with highly ordered porous structure and its excellent CO ₂ adsorption capacity. <i>Microporous and Mesoporous Materials</i> , 2018, 267, 134-141.	2.2	40
131	Recent advances in functionalized micro and mesoporous carbon materials: synthesis and applications. <i>Chemical Society Reviews</i> , 2018, 47, 2680-2721.	18.7	737
132	Mesoporous tin oxide: An efficient catalyst with versatile applications in acid and oxidation catalysis. <i>Catalysis Today</i> , 2018, 309, 61-76.	2.2	58
133	A new optical-electrical integrated buffer layer design based on gold nanoparticles tethered thiol containing sulfonated polyaniline towards enhancement of solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 112-123.	3.0	50
134	Facile One-pot Synthesis of Activated Porous Biocarbons with a High Nitrogen Content for CO ₂ Capture. <i>ChemNanoMat</i> , 2018, 4, 281-290.	1.5	40
135	Highly Crystalline Mesoporous C ₆₀ with Ordered Pores: A Class of Nanomaterials for Energy Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 569-573.	7.2	71
136	Highly Crystalline Mesoporous C ₆₀ with Ordered Pores: A Class of Nanomaterials for Energy Applications. <i>Angewandte Chemie</i> , 2018, 130, 578-582.	1.6	21
137	Design and fabrication of nanoporous adsorbents for the removal of aromatic sulfur compounds. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23978-24012.	5.2	147
138	Ordered Mesoporous C ₃ N ₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). <i>Angewandte Chemie</i> , 2018, 130, 17381-17386.	1.6	64
139	Ordered Mesoporous C ₃ N ₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17135-17140.	7.2	155
140	Highly Enhanced Photocatalytic Water-Splitting Activity of Gallium Zinc Oxynitride Derived from Flux-Assisted Zn/Ga Layered Double Hydroxides. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16264-16271.	1.8	13
141	Mesoporous Carbons with Hexagonally Ordered Pores Prepared from Carbonated Soft-Drink for CO ₂ Capture at High Pressure. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7830-7837.	0.9	10
142	Electrochemical Material Processing via Continuous Charge-Discharge Cycling: Enhanced Performance upon Cycling for Porous LaMnO ₃ Perovskite Supercapacitor Electrodes. <i>ChemElectroChem</i> , 2018, 5, 3723-3730.	1.7	23
143	A combined strategy of acid-assisted polymerization and solid state activation to synthesize functionalized nanoporous activated biocarbons from biomass for CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 23-32.	2.2	48
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