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 g-index
516 all docs	516 docs citations	516 times ranked	23994 citing authors

#	Article	IF	Citations
1	Recent advances in functionalized micro and mesoporous carbon materials: synthesis and applications. Chemical Society Reviews, 2018, 47, 2680-2721.	18.7	737
2	Challenges and breakthroughs in recent research on self-assembly. Science and Technology of Advanced Materials, 2008, 9, 014109.	2.8	695
3	Nanoarchitectonics for Mesoporous Materials. Bulletin of the Chemical Society of Japan, 2012, 85, 1-32.	2.0	650
4	Mesoporous carbon nitrides: synthesis, functionalization, and applications. Chemical Society Reviews, 2017, 46, 72-101.	18.7	534
5	Preparation and Characterization of Well-Ordered Hexagonal Mesoporous Carbon Nitride. Advanced Materials, 2005, 17, 1648-1652.	11.1	512
6	Emerging trends in porous materials for CO₂capture and conversion. Chemical Society Reviews, 2020, 49, 4360-4404.	18.7	473
7	Twoâ€Dimensional Hexagonallyâ€Ordered Mesoporous Carbon Nitrides with Tunable Pore Diameter, Surface Area and Nitrogen Content. Advanced Functional Materials, 2008, 18, 816-827.	7.8	455
8	X-ray peak broadening analysis in ZnO nanoparticles. Solid State Communications, 2009, 149, 1919-1923.	0.9	421
9	Biomass derived porous carbon for CO2 capture. Carbon, 2019, 148, 164-186.	5.4	356
10	Highly Ordered Nitrogenâ€Rich Mesoporous Carbon Nitrides and Their Superior Performance for Sensing and Photocatalytic Hydrogen Generation. Angewandte Chemie - International Edition, 2017, 56, 8481-8485.	7.2	345
11	Adsorption of Lysozyme over Mesoporous Molecular Sieves MCM-41 and SBA-15:Â Influence of pH and Aluminum Incorporation. Journal of Physical Chemistry B, 2004, 108, 7323-7330.	1.2	330
12	Gold Nanoparticles Embedded in a Mesoporous Carbon Nitride Stabilizer for Highly Efficient Threeâ€Component Coupling Reaction. Angewandte Chemie - International Edition, 2010, 49, 5961-5965.	7.2	321
13	Adsorption of Cytochrome c on Mesoporous Molecular Sieves:Â Influence of pH, Pore Diameter, and Aluminum Incorporation. Chemistry of Materials, 2004, 16, 3056-3065.	3.2	315
14	Photocatalytic activity of La-doped ZnO for the degradation of monocrotophos in aqueous suspension. Journal of Molecular Catalysis A, 2007, 266, 149-157.	4.8	315
15	Recent Advances in Functionalization of Mesoporous Silica. Journal of Nanoscience and Nanotechnology, 2005, 5, 347-371.	0.9	306
16	Layerâ€byâ€Layer Films of Graphene and Ionic Liquids for Highly Selective Gas Sensing. Angewandte Chemie - International Edition, 2010, 49, 9737-9739.	7.2	296
17	Highly Ordered Mesoporous Carbon Nitride Nanoparticles with High Nitrogen Content: A Metalâ€Free Basic Catalyst. Angewandte Chemie - International Edition, 2009, 48, 7884-7887.	7.2	287
18	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. Chemistry of Materials, 2011, 23, 1147-1157.	3.2	268

#	Article	IF	Citations
19	Single step synthesis of activated bio-carbons with a high surface area and their excellent CO2 adsorption capacity. Carbon, 2017, 116, 448-455.	5.4	262
20	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	9.4	245
21	Adsorption of Cytochrome C on New Mesoporous Carbon Molecular Sieves. Journal of Physical Chemistry B, 2003, 107, 8297-8299.	1.2	238
22	Recent advances in highly active nanostructured NiFe LDH catalyst for electrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 3180-3208.	5.2	224
23	Adsorption of Vitamin E on Mesoporous Carbon Molecular Sieves. Chemistry of Materials, 2005, 17, 829-833.	3.2	220
24	Biomaterial Immobilization in Nanoporous Carbon Molecular Sieves:â€‰ Influence of Solution pH, Pore Volume, and Pore Diameter. Journal of Physical Chemistry B, 2005, 109, 6436-6441.	1.2	219
25	Mechanical Stability and Porosity Analysis of Large-Pore SBA-15 Mesoporous Molecular Sieves by Mercury Porosimetry and Organics Adsorption. Langmuir, 2002, 18, 8010-8016.	1.6	218
26	An Optimized Procedure for the Synthesis of AlSBA-15 with Large Pore Diameter and High Aluminum Content. Journal of Physical Chemistry B, 2004, 108, 11496-11505.	1.2	215
27	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. Nano Research, 2020, 13, 18-37.	5.8	214
28	Inorganic Nanoarchitectonics for Biological Applications. Chemistry of Materials, 2012, 24, 728-737.	3.2	206
29	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
30	Freestanding Borophene and Its Hybrids. Advanced Materials, 2019, 31, e1900353.	11.1	195
31	Preparation of Highly Ordered Nitrogenâ€Containing Mesoporous Carbon from a Gelatin Biomolecule and its Excellent Sensing of Acetic Acid. Advanced Functional Materials, 2012, 22, 3596-3604.	7.8	194
32	Photocatalytic degradation of 2,4,6-trichlorophenol using lanthanum doped ZnO in aqueous suspension. Catalysis Communications, 2007, 8, 1377-1382.	1.6	189
33	Nanostructured Carbon Nitrides for CO₂ Capture and Conversion. Advanced Materials, 2020, 32, e1904635.	11.1	188
34	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. Materials Today, 2019, 25, 88-111.	8.3	180
35	Coordination chemistry and supramolecular chemistry in mesoporous nanospace. Coordination Chemistry Reviews, 2007, 251, 2562-2591.	9.5	179
36	Carboxy-mesoporous carbon and its excellent adsorption capability for proteins. Journal of Materials Chemistry, 2007, 17, 1819.	6.7	177

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37	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. Science of the Total Environment, 2022, 822, 153555.	3.9	174
38	Synthesis of Mesoporous BN and BCN Exhibiting Large Surface Areas via Templating Methods. Chemistry of Materials, 2005, 17, 5887-5890.	3.2	164
39	Adsorption of l-histidine over mesoporous carbon molecular sieves. Carbon, 2006, 44, 530-536.	5.4	162
40	New families of mesoporous materials. Science and Technology of Advanced Materials, 2006, 7, 753-771.	2.8	156
41	Ordered Mesoporous C₃N₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). Angewandte Chemie - International Edition, 2018, 57, 17135-17140.	7.2	155
42	Benzylation of benzene and other aromatics by benzyl chloride over mesoporous AlSBA-15 catalysts. Microporous and Mesoporous Materials, 2005, 80, 195-203.	2.2	153
43	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. Journal of Hazardous Materials, 2021, 420, 126534.	6.5	150
44	Recent Advances in Developing Hybrid Materials for Sodium-Ion Battery Anodes. ACS Energy Letters, 2020, 5, 1939-1966.	8.8	149
45	Design and fabrication of nanoporous adsorbents for the removal of aromatic sulfur compounds. Journal of Materials Chemistry A, 2018, 6, 23978-24012.	5.2	147
46	Large pore cage type mesoporous carbon, carbon nanocage: a superior adsorbent for biomaterials. Journal of Materials Chemistry, 2005, 15, 5122.	6.7	144
47	Layer-by-Layer Films of Dual-Pore Carbon Capsules with Designable Selectivity of Gas Adsorption. Journal of the American Chemical Society, 2009, 131, 4220-4221.	6.6	143
48	Stimuli-Free Auto-Modulated Material Release from Mesoporous Nanocompartment Films. Journal of the American Chemical Society, 2008, 130, 2376-2377.	6.6	142
49	A Layered Mesoporous Carbon Sensor Based on Nanoporeâ€Filling Cooperative Adsorption in the Liquid Phase. Angewandte Chemie - International Edition, 2008, 47, 7254-7257.	7.2	140
50	Facile synthesis and basic catalytic application of 3D mesoporous carbon nitride with a controllable bimodal distribution. Journal of Materials Chemistry, 2012, 22, 9831.	6.7	140
51	Direct Synthesis of Well-Ordered and Unusually Reactive FeSBA-15 Mesoporous Molecular Sieves. Chemistry of Materials, 2005, 17, 5339-5345.	3.2	138
52	Room temperature synthesis of solketal from acetalization of glycerol with acetone: Effect of crystallite size and the role of acidity of beta zeolite. Journal of Molecular Catalysis A, 2015, 396, 47-54.	4.8	138
53	Synthesis of Nitrogenâ€Rich Mesoporous Carbon Nitride with Tunable Pores, Band Gaps and Nitrogen Content from a Single Aminoguanidine Precursor. ChemSusChem, 2012, 5, 700-708.	3.6	136
54	One-Pot Separation of Tea Components through Selective Adsorption on Pore-Engineered Nanocarbon, Carbon Nanocage. Journal of the American Chemical Society, 2007, 129, 11022-11023.	6.6	134

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55	Synthesis of biodiesel over zirconia-supported isopoly and heteropoly tungstate catalysts. Catalysis Communications, 2008, 9, 696-702.	1.6	131
56	Stable nanostructured polyaniline electrode for supercapacitor application. Electrochimica Acta, 2011, 56, 9482-9487.	2.6	130
57	Three-Dimensional Cage Type Mesoporous CN-Based Hybrid Material with Very High Surface Area and Pore Volume. Chemistry of Materials, 2007, 19, 4367-4372.	3.2	127
58	Superior adsorption capacity of mesoporous carbon nitride with basic CN framework for phenol. Journal of Materials Chemistry, 2010, 20, 10801.	6.7	125
59	Highly Efficient Method for the Synthesis of Activated Mesoporous Biocarbons with Extremely High Surface Area for High-Pressure CO₂ Adsorption. ACS Applied Materials & Interfaces, 2017, 9, 29782-29793.	4.0	125
60	Antimony contamination and its risk management in complex environmental settings: A review. Environment International, 2022, 158, 106908.	4.8	125
61	Pore Size Engineering and Mechanical Stability of the Cubic Mesoporous Molecular Sieve SBA-1. Chemistry of Materials, 2003, 15, 1385-1393.	3.2	123
62	Borophene: New Sensation in Flatland. Advanced Materials, 2020, 32, e2000531.	11.1	118
63	Photocatalytic activity of ZnO impregnated HÎ² and mechanical mix of ZnO/HÎ² in the degradation of monocrotophos in aqueous solution. Journal of Molecular Catalysis A, 2006, 256, 312-320.	4.8	108
64	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
65	The Influence of Nanoparticle Shape on Protein Corona Formation. Small, 2020, 16, e2000285.	5.2	108
66	Carbon nanocage: a large-pore cage-type mesoporous carbon material as an adsorbent for biomolecules. Journal of Porous Materials, 2006, 13, 379-383.	1.3	107
67	Fabrication of partially graphitic three-dimensional nitrogen-doped mesoporous carbon using polyaniline nanocomposite through nanotemplating method. Microporous and Mesoporous Materials, 2008, 109, 398-404.	2.2	105
68	Controlling the textural parameters of mesoporous carbon materials. Microporous and Mesoporous Materials, 2007, 100, 20-26.	2.2	100
69	Nanocrystalline Ce1â^'xSmxO2â^'Î´ (x = 0.4) solid solutions: structural characterization versus CO oxidation. RSC Advances, 2013, 3, 7953.	1.7	100
70	Nanostructured Metal Phosphide Based Catalysts for Electrochemical Water Splitting: A Review. Small, 2022, 18, e2107572.	5.2	100
71	A Facile Templateâ€Free Approach for the Largeâ€Scale Solidâ€Phase Synthesis of CdS Nanostructures and Their Excellent Photocatalytic Performance. Small, 2011, 7, 957-964.	5.2	99
72	Vanadium doped 1T MoS2 nanosheets for highly efficient electrocatalytic hydrogen evolution in both acidic and alkaline solutions. Chemical Engineering Journal, 2021, 409, 128158.	6.6	98

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73	Preparation and Catalytic Performances of Ultralarge-Pore TiSBA-15 Mesoporous Molecular Sieves with Very High Ti Content. Journal of Physical Chemistry B, 2006, 110, 801-806.	1.2	96
74	Cage type mesoporous carbon nitride with large mesopores for CO2 capture. Catalysis Today, 2015, 243, 209-217.	2.2	93
75	Heteroatom functionalized activated porous biocarbons and their excellent performance forÂCO₂ capture at high pressure. Journal of Materials Chemistry A, 2017, 5, 21196-21204.	5.2	91
76	Selective sensing performance of mesoporous carbon nitride with a highly ordered porous structure prepared from 3-amino-1,2,4-triazine. Journal of Materials Chemistry A, 2013, 1, 2913.	5.2	90
77	Nanocrystalline magnesium oxide stabilized gold nanoparticles: an advanced nanotechnology based recyclable heterogeneous catalyst platform for the one-pot synthesis of propargylamines. Green Chemistry, 2011, 13, 2878.	4.6	89
78	Highly Crystalline and Conductive Nitrogenâ€Doped Mesoporous Carbon with Graphitic Walls and Its Electrochemical Performance. Chemistry - A European Journal, 2011, 17, 3390-3397.	1.7	89
79	Asymmetric Supercapacitors Based on Reduced Graphene Oxide with Different Polyoxometalates as Positive and Negative Electrodes. ChemSusChem, 2017, 10, 2742-2750.	3.6	89
80	Hydrogenation of olefins over hydrido chlorocarbonyl tris-(triphenylphosphine) ruthenium(II) complex immobilized on functionalized MCM-41 and SBA-15. Journal of Molecular Catalysis A, 2003, 206, 13-21.	4.8	88
81	Experimental and Theoretical Studies Suggesting the Possibility of Metallic Boron Nitride Edges in Porous Nanourchins. Nano Letters, 2008, 8, 1026-1032.	4.5	88
82	Boosting Photocatalytic Activity Using Carbon Nitride Based 2D/2D van der Waals Heterojunctions. Chemistry of Materials, 2021, 33, 9012-9092.	3.2	88
83	Assemblies of Biomaterials in Mesoporous Media. Journal of Nanoscience and Nanotechnology, 2006, 6, 1510-1532.	0.9	85
84	General Description of the Adsorption of Proteins at Their Iso-electric Point in Nanoporous Materials. Langmuir, 2011, 27, 13828-13837.	1.6	85
85	Re-dispersion and film formation of GdVO4â€‰:â€‰ Ln3+ (Ln3+ = Dy3+, Eu3+, Sm3+, Tm3+) nanoparticles: particle size and luminescence studies. Dalton Transactions, 2012, 41, 4404.	1.6	85
86	Energy Efficient Synthesis of Ordered Mesoporous Carbon Nitrides with a High Nitrogen Content and Enhanced CO₂ Capture Capacity. Chemistry - A European Journal, 2017, 23, 10753-10757.	1.7	85
87	Direct Synthesis of Novel FeSBA-1 Cubic Mesoporous Catalyst and Its High Activity in thetert-Butylation of Phenol. Advanced Materials, 2004, 16, 1817-1821.	11.1	84
88	Highly active and selective AlSBA-15 catalysts for the vapor phase tert-butylation of phenol. Applied Catalysis A: General, 2005, 281, 207-213.	2.2	84
89	Coupling of soft technology (layer-by-layer assembly) with hard materials (mesoporous solids) to give hierarchic functional structures. Soft Matter, 2009, 5, 3562.	1.2	84
90	Hierarchic Nanostructure for Autoâ€Modulation of Material Release: Mesoporous Nanocompartment Films. Advanced Functional Materials, 2009, 19, 1792-1799.	7.8	83

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91	Threeâ€Dimensional Ultralargeâ€Pore Ia3d Mesoporous Silica with Various Pore Diameters and Their Application in Biomolecule Immobilization. Chemistry - A European Journal, 2008, 14, 11529-11538.	1.7	80
92	Energy efficient synthesis of highly ordered mesoporous carbon nitrides with uniform rods and their superior CO₂adsorption capacity. Journal of Materials Chemistry A, 2017, 5, 16220-16230.	5.2	79
93	Redox Active Cerium Oxide Nanoparticles: Current Status and Burning Issues. Small, 2021, 17, e2102342.	5.2	79
94	Mesoporous FeAlMCM-41: an improved catalyst for the vapor phase tert-butylation of phenol. Applied Catalysis A: General, 2004, 265, 1-10.	2.2	76
95	Oxygen functionalized porous activated biocarbons with high surface area derived from grape marc for enhanced capture of CO2 at elevated-pressure. Carbon, 2020, 160, 113-124.	5.4	76
96	A review on the valorisation of food waste as a nutrient source and soil amendment. Environmental Pollution, 2021, 272, 115985.	3.7	76
97	Recent advances of layered-transition metal oxides for energy-related applications. Energy Storage Materials, 2021, 36, 514-550.	9.5	76
98	Novel Three Dimensional Cubic Fm3m Mesoporous Aluminosilicates with Tailored Cage Type Pore Structure and High Aluminum Content. Advanced Functional Materials, 2008, 18, 640-651.	7.8	75
99	Template-Free Synthesis of Nanostructured Cd_xZn_{1â€“x}S with Tunable Band Structure for H₂ Production and Organic Dye Degradation Using Solar Light. Environmental Science & Technology, 2013, 47, 6664-6672.	4.6	75
100	Diaminotetrazine based mesoporous C₃N₆ with a well-ordered 3D cubic structure and its excellent photocatalytic performance for hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 18183-18192.	5.2	75
101	Characterization of Co,Al-MCM-41 and its activity in the t-butylation of phenol using isobutanol. Applied Catalysis A: General, 2004, 268, 139-149.	2.2	74
102	Review of Clay-Drug Hybrid Materials for Biomedical Applications: Administration Routes. Clays and Clay Minerals, 2016, 64, 115-130.	0.6	74
103	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. Environment International, 2021, 155, 106600.	4.8	74
104	Ordered Mesoporous C₇₀ with Highly Crystalline Pore Walls for Energy Applications. Advanced Functional Materials, 2018, 28, 1803701.	7.8	73
105	Highly Crystalline Mesoporous C₆₀ with Ordered Pores: A Class of Nanomaterials for Energy Applications. Angewandte Chemie - International Edition, 2018, 57, 569-573.	7.2	71
106	Adsorption study of heme proteins on SBA-15 mesoporous silica with pore-filling models. Thin Solid Films, 2006, 499, 13-18.	0.8	70
107	Nanoporous activated biocarbons with high surface areas from alligator weed and their excellent performance for CO2 capture at both low and high pressures. Chemical Engineering Journal, 2021, 406, 126787.	6.6	70
108	Formation of nanosized zirconia-supported 12-tungstophosphoric acid in mesoporous silica SBA-15: A stable and versatile solid acid catalyst for benzylation of phenol. Journal of Catalysis, 2005, 235, 341-352.	3.1	68

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109	A Review on the Synthesis and Applications of Nanoporous Carbons for the Removal of Complex Chemical Contaminants. Bulletin of the Chemical Society of Japan, 2021, 94, 1232-1257.	2.0	67
110	Adsorption myoglobin over mesoporous silica molecular sieves: Pore size effect and pore-filling model. Materials Science and Engineering C, 2007, 27, 232-236.	3.8	66
111	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
112	Theoretical and experimental investigations of mesoporous C3N5/MoS2 hybrid for lithium and sodium ion batteries. Nano Energy, 2020, 72, 104702.	8.2	65
113	Cellulose-SO3H: an efficient and biodegradable solid acid for the synthesis of quinazolin-4(1H)-ones. Tetrahedron Letters, 2011, 52, 1891-1894.	0.7	64
114	Ordered Mesoporous C₃N₅ with a Combined Triazole and Triazine Framework and Its Graphene Hybrids for the Oxygen Reduction Reaction (ORR). Angewandte Chemie, 2018, 130, 17381-17386.	1.6	64
115	High-Performance Biomass-Derived Activated Porous Biocarbons for Combined Pre- and Post-Combustion CO₂ Capture. ACS Sustainable Chemistry and Engineering, 2019, 7, 7412-7420.	3.2	64
116	Sulfur-Doped Mesoporous Carbon Nitride with an Ordered Porous Structure for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 27192-27199.	4.0	63
117	Catalytic performances of silicotungstic acid/zirconia supported SBA-15 in an esterification of benzyl alcohol with acetic acid. Journal of Molecular Catalysis A, 2007, 276, 150-157.	4.8	62
118	Nanoporous Carbon Sensor with Cage-in-Fiber Structure: Highly Selective Aniline Adsorbent toward Cancer Risk Management. ACS Applied Materials & Interfaces, 2013, 5, 2930-2934.	4.0	62
119	Synthesis of functionalized nanoporous biocarbons with high surface area for CO₂ capture and supercapacitor applications. Green Chemistry, 2021, 23, 5571-5583.	4.6	62
120	Highly ordered macro-mesoporous carbon nitride film for selective detection of acidic/basic molecules. Chemical Communications, 2014, 50, 5976-5979.	2.2	61
121	Selfâ€Assembled Fullerene Nanostructures: Synthesis and Applications. Advanced Functional Materials, 2022, 32, 2106924.	7.8	61
122	Synthesis and Characterization of CoSBA-1 Cubic Mesoporous Molecular Sieves. Chemistry of Materials, 2002, 14, 2433-2435.	3.2	60
123	Design of High-Quality Pt?CeO2Composite Anodes Supported by Carbon Black for Direct Methanol Fuel Cell Application. Journal of the American Ceramic Society, 2007, 90, 1291-1294.	1.9	60
124	Indium Oxide and Europium/Dysprosium Doped Indium Oxide Nanoparticles:â€‰ Sonochemical Synthesis, Characterization, and Photoluminescence Studies. Journal of Physical Chemistry C, 2008, 112, 6781-6785.	1.5	60
125	Heterogeneous intermolecular hydroamination of terminal alkynes with aromatic amines. Tetrahedron Letters, 2006, 47, 141-143.	0.7	59
126	Mesoporous tin oxide: An efficient catalyst with versatile applications in acid and oxidation catalysis. Catalysis Today, 2018, 309, 61-76.	2.2	58

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127	Mixed Copper/Copperâ€Oxide Anchored Mesoporous Fullerene Nanohybrids as Superior Electrocatalysts toward Oxygen Reduction Reaction. Small, 2020, 16, e1903937.	5.2	58
128	From mine to mind and mobiles â€“ Lithium contamination and its risk management. Environmental Pollution, 2021, 290, 118067.	3.7	58
129	Production, characterisation, utilisation, and beneficial soil application of steel slag: A review. Journal of Hazardous Materials, 2021, 419, 126478.	6.5	57
130	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
131	Direct synthesis and catalytic evaluation of AlSBA-1. Chemical Communications, 2002, , 1238-1239.	2.2	55
132	Synthesis, characterization and catalytic performance of Mg and Co substituted mesoporous aluminophosphates. Microporous and Mesoporous Materials, 2004, 70, 15-25.	2.2	55
133	Nanoporous aluminosilicate catalyst with 3D cage-type porous structure as an efficient catalyst for the synthesis of benzimidazole derivatives. Tetrahedron Letters, 2010, 51, 5195-5199.	0.7	54
134	Amine Functionalized Metalâ€“Organic Framework Coordinated with Transition Metal Ions: dâ€“d Transition Enhanced Optical Absorption and Role of Transition Metal Sites on Solar Light Driven H₂ Production. Small, 2020, 16, e1902990.	5.2	54
135	Characterization and microporosity analysis of mesoporous carbon molecular sieves by nitrogen and organics adsorption. Catalysis Today, 2005, 102-103, 189-196.	2.2	53
136	Catalytic N2O decomposition on Pr0.8Ba0.2MnO3 type perovskite catalyst for industrial emission control. Catalysis Today, 2012, 198, 125-132.	2.2	53
137	Thermodynamically Stable Mesoporous C₃N₇ and C₃N₆ with Ordered Structure and Their Excellent Performance for Oxygen Reduction Reaction. Small, 2020, 16, e1903572.	5.2	53
138	Influence of anionic surface modifiers on the thermal stability and mechanical properties of layered double hydroxide/polypropylene nanocomposites. Journal of Materials Chemistry A, 2015, 3, 22730-22738.	5.2	52
139	Synthesis of mesoporous carbons with controlled morphology and pore diameters from SBA-15 prepared through the microwave-assisted process and their CO2 adsorption capacity. Microporous and Mesoporous Materials, 2016, 233, 44-52.	2.2	52
140	Physico-chemical modification of natural mordenite-clinoptilolite zeolites and their enhanced CO2 adsorption capacity. Microporous and Mesoporous Materials, 2020, 294, 109871.	2.2	52
141	Magnetization and structural studies of Mn doped ZnO nanoparticles: Prepared by reverse micelle method. Journal of Crystal Growth, 2007, 300, 358-363.	0.7	51
142	Glycerol acetins: fuel additive synthesis by acetylation and esterification of glycerol using cesium phosphotungstate catalyst. RSC Advances, 2015, 5, 104354-104362.	1.7	51
143	Highly efficient and selective adsorption of In3+ on pristine Zn/Al layered double hydroxide (Zn/Al-LDH) from aqueous solutions. Journal of Solid State Chemistry, 2016, 233, 133-142.	1.4	50
144	A new optical-electrical integrated buffer layer design based on gold nanoparticles tethered thiol containing sulfonated polyaniline towards enhancement of solar cell performance. Solar Energy Materials and Solar Cells, 2018, 174, 112-123.	3.0	50

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145	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
146	Tuning the ATP-triggered pro-oxidant activity of iron oxide-based nanozyme towards an efficient antibacterial strategy. Journal of Colloid and Interface Science, 2020, 567, 154-164.	5.0	50
147	Metalâ€“organic frameworks containing uncoordinated nitrogen: Preparation, modification, and application in adsorption. Materials Today, 2021, 51, 566-585.	8.3	50
148	Synthesis of 3,4-dihydropyrimidin-2-ones (DHPMs) using mesoporous aluminosilicate (AlKIT-5) catalyst with cage type pore structure. Tetrahedron, 2009, 65, 10608-10611.	1.0	49
149	Growth of Shapeâ€•and Sizeâ€Selective Zinc Oxide Nanorods by a Microwaveâ€Assisted Chemical Bath Deposition Method: Effect on Photocatalysis Properties. Chemistry - A European Journal, 2010, 16, 10569-10575.	1.7	49
150	Microwave treated solâ€“gel synthesis and characterization of hybrid ZnSâ€“RGO composites for efficient photodegradation of dyes. New Journal of Chemistry, 2017, 41, 1723-1735.	1.4	49
151	Remarkable catalytic activity of a sulfonated mesoporous polymer (MP-SO₃H) for the synthesis of solketal at room temperature. New Journal of Chemistry, 2017, 41, 5745-5751.	1.4	49
152	Recent Advances in Functionalized Nanoporous Carbons Derived from Waste Resources and Their Applications in Energy and Environment. Advanced Sustainable Systems, 2021, 5, .	2.7	49
153	A combined strategy of acid-assisted polymerization and solid state activation to synthesize functionalized nanoporous activated biocarbons from biomass for CO2 capture. Microporous and Mesoporous Materials, 2018, 271, 23-32.	2.2	48
154	Intermolecular hydroamination of alkynes catalyzed by zinc-exchanged montmorillonite clay. Journal of Molecular Catalysis A, 2004, 222, 223-228.	4.8	47
155	Immobilization of carbonic anhydrase on mesoporous aluminosilicate for carbonation reaction. Microporous and Mesoporous Materials, 2012, 160, 151-158.	2.2	47
156	Fabrication and textural characterization of nanoporous carbon electrodes embedded with CuO nanoparticles for supercapacitors. Science and Technology of Advanced Materials, 2011, 12, 044602.	2.8	46
157	Anionic clay as the drug delivery vehicle: tumor targeting function of layered double hydroxide-methotrexate nanohybrid in C33A orthotopic cervical cancer model. International Journal of Nanomedicine, 2016, 11, 337.	3.3	46
158	Highly Crystalline Mesoporous Phosphotungstic Acid: A Highâ€Performance Electrode Material for Energyâ€Storage Applications. Angewandte Chemie - International Edition, 2019, 58, 10849-10854.	7.2	46
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