Asim Bhaumik

List of Publications by Year
in descending order

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444	21,758	6613	19749
papers	citations	79 h-index	117 g-index

476	476	476	20863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hierarchically porous carbon derived from polymers and biomass: effect of interconnected pores on energy applications. Energy and Environmental Science, 2014, 7, 3574-3592.	30.8	1,204
2	Mesoporous Titanium Phosphate Molecular Sieves with Ion-Exchange Capacity. Journal of the American Chemical Society, 2001, 123, 691-696.	13.7	318
3	Unprecedented CO2 uptake over highly porous N-doped activated carbon monoliths prepared by physical activation. Chemical Communications, 2012, 48, 10283.	4.1	252
4	A triazine-based covalent organic polymer for efficient CO₂ adsorption. Chemical Communications, 2015, 51, 10050-10053.	4.1	248
5	Porphyrin based porous organic polymers: novel synthetic strategy and exceptionally high CO₂adsorption capacity. Chemical Communications, 2012, 48, 248-250.	4.1	244
6	Soft templating strategies for the synthesis of mesoporous materials: Inorganic, organicâ€“inorganic hybrid and purely organic solids. Advances in Colloid and Interface Science, 2013, 189-190, 21-41.	14.7	232
7	Fe3O4@mesoporous SBA-15: a robust and magnetically recoverable catalyst for one-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones via the Biginelli reaction. Dalton Transactions, 2012, 41, 6173.	3.3	225
8	General synthesis of hierarchical sheet/plate-like M-BDC (M = Cu, Mn, Ni, and Zr) metalâ€“organic frameworks for electrochemical non-enzymatic glucose sensing. Chemical Science, 2020, 11, 3644-3655.	7.4	205
9	3-D ordered mesoporous KIT-6 support for effective hydrodesulfurization catalysts. Applied Catalysis B: Environmental, 2009, 90, 55-63.	20.2	199
10	Selective Zinc(II)â€Ion Fluorescence Sensing by a Functionalized Mesoporous Material Covalently Grafted with a Fluorescent Chromophore and Consequent Biological Applications. Advanced Functional Materials, 2009, 19, 223-234.	14.9	195
11	Organically Modified Titanium-Rich Ti-MCM-41, Efficient Catalysts for Epoxidation Reactions. Journal of Catalysis, 2000, 189, 31-39.	6.2	188
12	A Metal-Free Covalent Organic Polymer for Electrocatalytic Hydrogen Evolution. ACS Catalysis, 2017, 7, 6120-6127.	11.2	184
13	Porphyrin-based porous organic polymer-supported iron(III) catalyst for efficient aerobic oxidation of 5-hydroxymethyl-furfural into 2,5-furandicarboxylic acid. Journal of Catalysis, 2013, 299, 316-320.	6.2	179
14	Electrochemical Stimuli-Driven Facile Metal-Free Hydrogen Evolution from Pyrene-Porphyrin-Based Crystalline Covalent Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 23843-23851.	8.0	179
15	Triazine functionalized ordered mesoporous polymer: a novel solid support for Pd-mediated Câ€“C cross-coupling reactions in water. Green Chemistry, 2011, 13, 1317.	9.0	167
16	Catalytic reduction of CO₂ into fuels and fine chemicals. Green Chemistry, 2020, 22, 4002-4033.	9.0	162
17	Porous Organic Polymers for CO₂ Storage and Conversion Reactions. ChemCatChem, 2019, 11, 244-257.	3.7	153
18	Promoter-induced enhancement of the crystallization rate of zeolites and related molecular sieves. Nature, 1996, 381, 298-300.	27.8	151

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19	Mesoporous silica nanoparticle based enzyme responsive system for colon specific drug delivery through guar gum capping. Colloids and Surfaces B: Biointerfaces, 2017, 150, 352-361.	5.0	151
20	Magnetic properties of Î±-Fe2O3 nanoparticle synthesized by a new hydrothermal method. Journal of Magnetism and Magnetic Materials, 2005, 285, 296-302.	2.3	144
21	A Thiadiazole-Based Covalent Organic Framework: A Metal-Free Electrocatalyst toward Oxygen Evolution Reaction. ACS Catalysis, 2020, 10, 5623-5630.	11.2	140
22	A triazine functionalized porous organic polymer: excellent CO₂storage material and support for designing Pd nanocatalyst for Câ€“C cross-coupling reactions. Journal of Materials Chemistry A, 2014, 2, 11642.	10.3	138
23	Self-assembled TiO2 nanoparticles: mesoporosity, optical and catalytic properties. Dalton Transactions, 2010, 39, 4382.	3.3	134
24	Pd-grafted porous metalâ€“organic framework material as an efficient and reusable heterogeneous catalyst for Câ€“C coupling reactions in water. Applied Catalysis A: General, 2014, 469, 320-327.	4.3	134
25	A new functionalized mesoporous matrix supported Pd(ii)-Schiff base complex: an efficient catalyst for the Suzukiâ€“Miyaura coupling reaction. Dalton Transactions, 2010, 39, 6395.	3.3	133
26	Mesoporous materials: versatile supports in heterogeneous catalysis for liquid phase catalytic transformations. RSC Advances, 2015, 5, 24363-24391.	3.6	133
27	Self-assembled mesoporous Î³-Al2O3 spherical nanoparticles and their efficiency for the removal of arsenic from water. Journal of Hazardous Materials, 2012, 201-202, 170-177.	12.4	132
28	A New Triazineâ€Based Covalent Organic Framework for Highâ€Performance Capacitive Energy Storage. ChemSusChem, 2017, 10, 921-929.	6.8	132
29	Highly Luminescent Organicâ^'Inorganic Hybrid Mesoporous Silicas Containing Tunable Chemosensor inside the Pore Wall. Chemistry of Materials, 2007, 19, 5347-5354.	6.7	125
30	A new triazine functionalized luminescent covalent organic framework for nitroaromatic sensing and CO₂ storage. RSC Advances, 2016, 6, 28047-28054.	3.6	125
31	Highly ordered acid functionalized SBA-15: a novel organocatalyst for the preparation of xanthenes. Chemical Communications, 2011, 47, 6677.	4.1	124
32	Pd-grafted periodic mesoporous organosilica: an efficient heterogeneous catalyst for Hiyama and Sonogashira couplings, and cyanation reactions. Green Chemistry, 2012, 14, 2840.	9.0	123
33	Synthesis of 5â€Hydroxymethylfurural from Carbohydrates using Largeâ€Pore Mesoporous Tin Phosphate. ChemSusChem, 2014, 7, 925-933.	6.8	123
34	A new hypercrosslinked supermicroporous polymer, with scope for sulfonation, and its catalytic potential for the efficient synthesis of biodiesel at room temperature. Chemical Communications, 2015, 51, 5020-5023.	4.1	122
35	Cu nanorods and nanospheres and their excellent catalytic activity in chemoselective reduction of nitrobenzenes. Catalysis Communications, 2010, 11, 651-655.	3.3	118
36	Microwave assisted rapid conversion of carbohydrates into 5-hydroxymethylfurfural catalyzed by mesoporous TiO2 nanoparticles. Applied Catalysis A: General, 2011, 409-410, 133-139.	4.3	118

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37	Nitrogen-rich porous covalent imine network (CIN) material as an efficient catalytic support for Câ€“C coupling reactions. Dalton Transactions, 2012, 41, 1304-1311.	3.3	117
38	Zn(<scp>ii</scp>) assisted synthesis of porous salen as an efficient heterogeneous scaffold for capture and conversion of CO₂. Chemical Communications, 2015, 51, 15732-15735.	4.1	116
39	Covalent organic framework based microspheres as an anode material for rechargeable sodium batteries. Journal of Materials Chemistry A, 2018, 6, 16655-16663.	10.3	113
40	Microporous nickel phosphonate derived heteroatom doped nickel oxide and nickel phosphide: Efficient electrocatalysts for oxygen evolution reaction. Chemical Engineering Journal, 2021, 405, 126803.	12.7	112
41	Porphyrin based porous organic polymer as bi-functional catalyst for selective oxidation and Knoevenagel condensation reactions. Applied Catalysis A: General, 2013, 459, 41-51.	4.3	108
42	Porous nanomaterials as green catalyst for the conversion of biomass to bioenergy. Fuel, 2016, 185, 432-441.	6.4	108
43	Heterogeneous ditopic ZnFe₂O₄catalyzed synthesis of 4H-pyrans: further conversion to 1,4-DHPs and report of functional group interconversion from amide to ester. Green Chemistry, 2014, 16, 1426-1435.	9.0	107
44	Supported Porous Nanomaterials as Efficient Heterogeneous Catalysts for CO₂ Fixation Reactions. Chemistry - A European Journal, 2018, 24, 7278-7297.	3.3	107
45	Efficient Solid Acid Catalyst Containing Lewis and BrÃ¸nsted Acid Sites for the Production of Furfurals. ChemSusChem, 2014, 7, 2342-2350.	6.8	106
46	Facile Synthesis of Nanoporous Transition Metalâ€Based Phosphates for Oxygen Evolution Reaction. ChemCatChem, 2020, 12, 2091-2096.	3.7	106
47	Highly efficient mesoporous base catalyzed Knoevenagel condensation of different aromatic aldehydes with malononitrile and subsequent noncatalytic Dielsâ€“Alder reactions. Journal of Molecular Catalysis A, 2011, 335, 236-241.	4.8	105
48	Synthesis, Characterization, and Biofuel Application of Mesoporous Zirconium Oxophosphates. ACS Catalysis, 2011, 1, 493-501.	11.2	104
49	One-pot thioetherification of aryl halides with thiourea and benzyl bromide in water catalyzed by Cu-grafted furfural imine-functionalized mesoporous SBA-15. Chemical Communications, 2012, 48, 8000.	4.1	104
50	Direct synthesis of dimethyl ether from syngas over Cu-based catalysts: Enhanced selectivity in the presence of MgO. Journal of Catalysis, 2016, 334, 89-101.	6.2	102
51	Self-Assembled Mesoporous Zirconia and Sulfated Zirconia Nanoparticles Synthesized by Triblock Copolymer as Template. Journal of Physical Chemistry C, 2009, 113, 8918-8923.	3.1	101
52	Titanium containing inorganicâ€“organic hybrid mesoporous materials with exceptional activity in epoxidation of alkenes using hydrogen peroxide. Journal of Materials Chemistry, 2002, 12, 3078-3083.	6.7	100
53	Tungstic acid functionalized mesoporous SBA-15: A novel heterogeneous catalyst for facile one-pot synthesis of 2-amino-4H-chromenes in aqueous medium. Dalton Transactions, 2013, 42, 10515.	3.3	100
54	Efficient allylic oxidation of cyclohexene catalyzed by immobilized Schiff base complex using peroxides as oxidants. Applied Catalysis A: General, 2006, 301, 79-88.	4.3	99

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55	New mesoporous perovskite ZnTiO3 and its excellent catalytic activity in liquid phase organic transformations. Applied Catalysis A: General, 2011, 393, 153-160.	4.3	99
56	Morphology evolution of single-crystalline hematite nanocrystals: magnetically recoverable nanocatalysts for enhanced facet-driven photoredox activity. Nanoscale, 2016, 8, 365-377.	5.6	99
57	Ammoximation of ketones catalyzed by titanium-containing ethane bridged hybrid mesoporous silsesquioxane. Chemical Communications, 2003, , 470-471.	4.1	98
58	A new benzimidazole based covalent organic polymer having high energy storage capacity. Chemical Communications, 2016, 52, 7592-7595.	4.1	97
59	Sulfonated Porous Polymeric Nanofibers as an Efficient Solid Acid Catalyst for the Production of 5â€Hydroxymethylfurfural from Biomass. ChemCatChem, 2015, 7, 3570-3578.	3.7	96
60	Green synthesis of Pt-doped TiO₂nanocrystals with exposed (001) facets and mesoscopic void space for photo-splitting of water under solar irradiation. Nanoscale, 2015, 7, 10504-10512.	5.6	95
61	Triphase Catalysis over Titaniumâ€“Silicate Molecular Sieves under Solvent-free Conditions. Journal of Catalysis, 1998, 178, 101-107.	6.2	93
62	Hierarchically porous titanium phosphate nanoparticles: an efficient solid acid catalyst for microwave assisted conversion of biomass and carbohydrates into 5-hydroxymethylfurfural. Journal of Materials Chemistry, 2012, 22, 14094.	6.7	93
63	Bifunctionalized Mesoporous SBA-15: A New Heterogeneous Catalyst for the Facile Synthesis of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2017, 5, 2763-2773.	6.7	92
64	A high performance catalyst of shape-specific ruthenium nanoparticles for production of primary amines by reductive amination of carbonyl compounds. Chemical Science, 2018, 9, 5949-5956.	7.4	92
65	A triazine-based porous organic polymer: a novel heterogeneous basic organocatalyst for facile one-pot synthesis of 2-amino-4H-chromenes. RSC Advances, 2015, 5, 32730-32739.	3.6	91
66	Self-assembly of mesoporous TiO2 nanospheres via aspartic acid templating pathway and its catalytic application for 5-hydroxymethyl-furfural synthesis. Journal of Materials Chemistry, 2011, 21, 17505.	6.7	89
67	Highly Ordered Mesoporous TiO₂â€“Fe₂O₃ Mixed Oxide Synthesized by Solâ€“Gel Pathway: An Efficient and Reusable Heterogeneous Catalyst for Dehalogenation Reaction. ACS Applied Materials & Interfaces, 2012, 4, 5022-5028.	8.0	88
68	A new strongly paramagnetic cerium-containing microporous MOF for CO₂ fixation under ambient conditions. Dalton Transactions, 2017, 46, 13783-13792.	3.3	88
69	Synthesis and Characterization of Iron-Rich Highly Ordered Mesoporous Fe-MCM-41. Industrial & Engineering Chemistry Research, 2003, 42, 3012-3018.	3.7	87
70	Template directed synthesis of mesoporous ZnO having high porosity and enhanced optoelectronic properties. Chemical Communications, 2009, , 2384.	4.1	87
71	Nanoarchitectured Metal Phosphates and Phosphonates: A New Material Horizon toward Emerging Applications. Chemistry of Materials, 2019, 31, 5343-5362.	6.7	87
72	Novel Nitrogen and Sulfur Rich Hyper-Cross-Linked Microporous Poly-Triazine-Thiophene Copolymer for Superior CO₂ Capture. ACS Sustainable Chemistry and Engineering, 2016, 4, 3697-3703.	6.7	86

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73	Thioether-Functionalized Covalent Triazine Nanospheres: A Robust Adsorbent for Mercury Removal. ACS Sustainable Chemistry and Engineering, 2019, 7, 7353-7361.	6.7	86
74	Functionalized mesoporous silica supported copper(ii) and nickel(ii) catalysts for liquid phase oxidation of olefins. Dalton Transactions, 2011, 40, 12510.	3.3	84
75	A new electrochemically responsive 2D Ï€-conjugated covalent organic framework as a high performance supercapacitor. Microporous and Mesoporous Materials, 2018, 266, 109-116.	4.4	84
76	Silver nanoparticles embedded over porous metal organic frameworks for carbon dioxide fixation via carboxylation of terminal alkynes at ambient pressure. Journal of Colloid and Interface Science, 2016, 477, 220-229.	9.4	83
77	A fluorophore grafted 2D-hexagonal mesoporous organosilica: Excellent ion-exchanger for the removal of heavy metal ions from wastewater. Microporous and Mesoporous Materials, 2010, 128, 34-40.	4.4	82
78	IrO₂ and Pt Doped Mesoporous SnO₂ Nanospheres as Efficient Electrocatalysts for the Facile OER and HER. ChemCatChem, 2019, 11, 583-592.	3.7	82
79	In-situ polymerization of grafted aniline in the channels of mesoporous silica SBA-15. Journal of Materials Chemistry, 2007, 17, 278-283.	6.7	81
80	Fabrication of Ruthenium Nanoparticles in Porous Organic Polymers: Towards Advanced Heterogeneous Catalytic Nanoreactors. Chemistry - A European Journal, 2015, 21, 19016-19027.	3.3	81
81	Porous carbon derived via KOH activation of a hypercrosslinked porous organic polymer for efficient CO2, CH4, H2 adsorptions and high CO2/N2 selectivity. Journal of Solid State Chemistry, 2015, 232, 157-162.	2.9	81
82	Baeyer-Villiger rearrangement catalysed by titanium silicate molecular sieve (TS-1)/H2O2 system. Catalysis Letters, 1996, 40, 47-50.	2.6	80
83	Pyrene-Based Porous Organic Polymers as Efficient Catalytic Support for the Synthesis of Biodiesels at Room Temperature. ACS Sustainable Chemistry and Engineering, 2015, 3, 1715-1723.	6.7	80
84	Highly ordered Ti-SBA-15: Efficient H2 adsorbent and photocatalyst for eco-toxic dye degradation. Journal of Solid State Chemistry, 2010, 183, 1326-1333.	2.9	79
85	A new periodic mesoporous organosilica containing diimine-phloroglucinol, Pd(ii)-grafting and its excellent catalytic activity and trans-selectivity in Câ€“C coupling reactions. Journal of Materials Chemistry, 2010, 20, 8099.	6.7	79
86	Novel Organicâ€“Inorganic Hybrid Mesoporous Silica Supported Oxoâ€“Vanadium Schiff Base for Selective Oxidation of Alcohols. Advanced Synthesis and Catalysis, 2011, 353, 1897-1902.	4.3	79
87	Silver nanoparticles embedded over mesoporous organic polymer as highly efficient and reusable nanocatalyst for the reduction of nitroarenes and aerobic oxidative esterification of alcohols. Applied Catalysis A: General, 2014, 477, 184-194.	4.3	79
88	Pd Nanoparticles Decorated on Hypercrosslinked Microporous Polymer: A Highly Efficient Catalyst for the Formylation of Amines through Carbon Dioxide Fixation. ChemCatChem, 2017, 9, 1939-1946.	3.7	79
89	Magnetic Nanohybrid Decorated Porous Organic Polymer: Synergistic Catalyst for High Performance Levulinic Acid Hydrogenation. ACS Sustainable Chemistry and Engineering, 2017, 5, 1033-1045.	6.7	79
90	Covalent Organic Framework Material Bearing Phloroglucinol Building Units as a Potent Anticancer Agent. ACS Applied Materials & Interfaces, 2017, 9, 31411-31423.	8.0	78

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91	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 202-209.	6.7	78
92	A new functionalized mesoporous polymer with high efficiency for the removal of pollutant anions. Journal of Materials Chemistry, 2009, 19, 1901.	6.7	77
93	An improved high yielding immobilization of vanadium Schiff base complexes on mesoporous silica via azideâ€“alkyne cycloaddition for the oxidation of sulfides. Green Chemistry, 2010, 12, 374.	9.0	76
94	Magnetic Memory Effects in ${m Fe}/gammahbox{-}{m Fe}_{{2}}{m O}_{{f 3}}$ Nanostructures. IEEE Transactions on Magnetics, 2014, 50, 11-17.	2.1	76
95	Titanium silicate molecular sieve (TS-1)/H2O2 induced triphase catalysis in the oxidation of hydrophobic organic compounds with significant enhancement of activity and Para-selectivity. Journal of the Chemical Society Chemical Communications, 1995, , 349.	2.0	75
96	Functionalized Mesoporous Cross-Linked Polymer As Efficient Host for Loading Gold Nanoparticles and Its Electrocatalytic Behavior for Reduction of H2O2. Chemistry of Materials, 2007, 19, 6290-6296.	6.7	75
97	One-pot efficient Heck coupling in water catalyzed by palladium nanoparticles tethered into mesoporous organic polymer. Journal of Molecular Catalysis A, 2011, 350, 40-48.	4.8	75
98	Efficacious Electrochemical Oxygen Evolution from a Novel Co(II) Porphyrin/Pyrene-Based Conjugated Microporous Polymer. ACS Applied Materials & Interfaces, 2019, 11, 1520-1528.	8.0	75
99	Mesoporous Cr-MCM-41: An efficient catalyst for selective oxidation of cycloalkanes. Journal of Molecular Catalysis A, 2005, 236, 7-11.	4.8	74
100	Role of Surface Phenolic-OH Groups in N-Rich Porous Organic Polymers for Enhancing the CO₂ Uptake and CO₂/N₂ Selectivity: Experimental and Computational Studies. ACS Applied Materials & Interfaces, 2018, 10, 23813-23824.	8.0	74
101	Self-assembled mesoporous TiO2 spherical nanoparticles by a new templating pathway and its enhanced photoconductivity in the presence of an organic dye. Journal of Materials Chemistry, 2011, 21, 3925.	6.7	73
102	Self-Assembled TiO₂ Nanospheres By Using a Biopolymer as a Template and Its Optoelectronic Application. ACS Applied Materials & Interfaces, 2012, 4, 1560-1564.	8.0	73
103	Synthesis of mesoporous hollow silica nanospheres using polymeric micelles as template and their application as a drug-delivery carrier. Dalton Transactions, 2013, 42, 13381.	3.3	73
104	Mesoporous polyaniline having high conductivity at room temperature. Microporous and Mesoporous Materials, 2008, 109, 239-247.	4.4	72
105	Facile Suzuki coupling over ortho-metalated palladium(II) complex anchored on 2D-hexagonal mesoporous organosilica. Applied Catalysis A: General, 2009, 352, 81-86.	4.3	72
106	Microwave-assisted synthesis of porous Mn₂O₃nanoballs as bifunctional electrocatalyst for oxygen reduction and evolution reaction. Catalysis Science and Technology, 2016, 6, 1417-1429.	4.1	72
107	Design and Synthesis of Nanostructured Porous SnO₂ with High Surface Areas and Their Optical and Dielectric Properties. Journal of Physical Chemistry C, 2008, 112, 8668-8674.	3.1	70
108	Mixed-Valence Bimetallic Ce/Zr MOF-Based Nanoarchitecture: A Visible-Light-Active Photocatalyst for Ciprofloxacin Degradation and Hydrogen Evolution. Langmuir, 2022, 38, 1766-1780.	3.5	69

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109	High performance dye-sensitized solar cell by using porous polyaniline nanotubes as counter electrode. Chemical Engineering Journal, 2015, 260, 393-398.	12.7	68
110	A study on the structural and mechanical properties of nanocrystalline CuS thin films grown by chemical bath deposition technique. Materials Research Bulletin, 2011, 46, 6-11.	5.2	67
111	Ag NPs decorated on a COF in the presence of DBU as an efficient catalytic system for the synthesis of tetramic acids via CO₂ fixation into propargylic amines at atmospheric pressure. Dalton Transactions, 2019, 48, 4657-4666.	3.3	67
112	Triazine functionalized ordered mesoporous organosilica as a novel organocatalyst for the facile one-pot synthesis of 2-amino-4H-chromenes under solvent-free conditions. RSC Advances, 2012, 2, 11306.	3.6	66
113	A facile route for the syntheses of Ni(OH)2 and NiO nanostructures as potential candidates for non-enzymatic glucose sensor. Journal of Colloid and Interface Science, 2018, 516, 121-127.	9.4	66
114	Direct amide bond formation from carboxylic acids and amines using activated alumina balls as a new, convenient, clean, reusable and low cost heterogeneous catalyst. Green Chemistry, 2012, 14, 3220.	9.0	64
115	Cu(II)-anchored functionalized mesoporous SBA-15: An efficient and recyclable catalyst for the one-pot Click reaction in water. Journal of Molecular Catalysis A, 2014, 386, 78-85.	4.8	64
116	Hollow spherical mesoporous phosphosilicate nanoparticles as a delivery vehicle for an antibiotic drug. Chemical Communications, 2012, 48, 2891.	4.1	63
117	Magnesium oxide as an efficient catalyst for CO 2 fixation and N-formylation reactions under ambient conditions. Molecular Catalysis, 2018, 450, 46-54.	2.0	63
118	Phosphonic Acid Functionalized Ordered Mesoporous Material: A New and Ecofriendly Catalyst for One-Pot Multicomponent Biginelli Reaction under Solvent-Free Conditions. ACS Applied Materials & Interfaces, 2014, 6, 933-941.	8.0	62
119	Highly porous Co(ii)-salicylate metalâ€“organic framework: synthesis, characterization and magnetic properties. Dalton Transactions, 2011, 40, 2932.	3.3	60
120	Porous organicâ€“inorganic hybrid nickel phosphonate: Adsorption and catalytic applications. Microporous and Mesoporous Materials, 2012, 155, 208-214.	4.4	59
121	Site-selective multicomponent synthesis of densely substituted 2-oxo dihydropyrroles catalyzed by clean, reusable, and heterogeneous TiO2 nanopowder. Tetrahedron Letters, 2013, 54, 1371-1379.	1.4	58
122	Functionalized graphene oxide as an efficient adsorbent for CO₂ capture and support for heterogeneous catalysis. RSC Advances, 2016, 6, 72055-72068.	3.6	58
123	Four Î¼4-oxo-bridged copper(ii) complexes: magnetic properties and catalytic applications in liquid phase partial oxidation reactions. Dalton Transactions, 2009, , 9543.	3.3	57
124	Cu-grafted mesoporous organic polymer: a new recyclable nanocatalyst for multi-component, N-arylation and S-arylation reactions. Catalysis Science and Technology, 2013, 3, 3303.	4.1	56
125	A new MCM-41 supported HPF6 catalyst for the library synthesis of highly substituted 1,4-dihydropyridines and oxidation to pyridines: report of one-dimensional packing towards LMSOMs and studies on their photophysical properties. Green Chemistry, 2013, 15, 1910.	9.0	56
126	Synthesis of Hierarchical Mesoporous Mnâ€“MFI Zeolite Nanoparticles: A Unique Architecture of Heterogeneous Catalyst for the Aerobic Oxidation of Thiols to Disulfides. ChemCatChem, 2014, 6, 220-229.	3.7	56

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127	CO₂ fixation at atmospheric pressure: porous ZnSnO₃ nanocrystals as a highly efficient catalyst for the synthesis of cyclic carbonates. RSC Advances, 2016, 6, 31153-31160.	3.6	56
128	Oneâ€Pot Synthesis of Polyhydroquinoline Derivatives through Organicâ€Solidâ€Acidâ€Catalyzed Hantzsch Condensation Reaction. ChemCatChem, 2017, 9, 1469-1475.	3.7	56
129	Nitrogen Rich Carbon Coated TiO2 Nanoparticles as Anode for High Performance Lithium-ion Battery. Electrochimica Acta, 2017, 255, 417-427.	5.2	56
130	Sn-ZSM-12, a new, large pore MTW type tin-silicate molecular sieve: synthesis, characterization and catalytic properties in oxidation reactions. Catalysis Letters, 1995, 33, 387-394.	2.6	55
131	Functionalized mesoporous materials as efficient organocatalysts for the syntheses of xanthenes. Journal of Molecular Catalysis A, 2012, 363-364, 254-264.	4.8	55
132	Synthesis and Temperatureâ€Induced Morphological Control in a Hybrid Porous Ironâ€“Phosphonate Nanomaterial and Its Excellent Catalytic Activity in the Synthesis of Benzimidazoles. Chemistry - A European Journal, 2012, 18, 13372-13378.	3.3	54
133	Highly porous organic polymers bearing tertiary amine group and their exceptionally high CO2 uptake capacities. Journal of Solid State Chemistry, 2015, 222, 7-11.	2.9	54
134	Novel porous metal phosphonates as efficient electrocatalysts for the oxygen evolution reaction. Chemical Engineering Journal, 2020, 396, 125245.	12.7	54
135	Role of oxyanions as promoter for enhancing nucleation and crystallization in the synthesis of MFI-type microporous materials. Microporous and Mesoporous Materials, 1998, 22, 23-31.	4.4	52
136	Organicâ€“inorganic hybrid porous sulfonated zinc phosphonate material: efficient catalyst for biodiesel synthesis at room temperature. Green Chemistry, 2012, 14, 2273.	9.0	51
137	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 322-332.	9.4	51
138	Incorporation of tin in different types of pores in SBA-15: Synthesis, characterization and catalytic activity. Microporous and Mesoporous Materials, 2009, 126, 234-244.	4.4	50
139	Robust 1D open rack-like architecture in coordination polymers of Anderson POMs [{Na4(H2O)14}{Cu(gly)}2][TeMo6O24] and [{Cu(en)2}3{TeW6O24}]: synthesis, characterization and heterogeneous catalytic epoxidation of olefines. Dalton Transactions, 2010, 39, 11551.	3.3	50
140	Facile Câ€“S coupling reaction of aryl iodide and thiophenol catalyzed by Cu-grafted furfural functionalized mesoporous organosilica. Dalton Transactions, 2011, 40, 5228.	3.3	50
141	Towards rational design of coreâ€“shell catalytic nanoreactor with high performance catalytic hydrogenation of levulinic acid. Catalysis Science and Technology, 2016, 6, 5102-5115.	4.1	50
142	Highly Active 2D Hexagonal Mesoporous Titanium Silicate Synthesized Using a Cationicâ^'Anionic Mixed-Surfactant Assembly. Industrial & Engineering Chemistry Research, 2006, 45, 4879-4883.	3.7	49
143	Porous Polyurea Network Showing Aggregation Induced White Light Emission, Applications as Biosensor and Scaffold for Drug Delivery. ACS Applied Materials & Interfaces, 2014, 6, 22569-22576.	8.0	49
144	Ag-grafted covalent imine network material for one-pot three-component coupling and hydration of nitriles to amides in aqueous medium. RSC Advances, 2014, 4, 47593-47604.	3.6	49

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145	Biopolymer templated porous TiO2: An efficient catalyst for the conversion of unutilized sugars derived from hemicellulose. Applied Catalysis A: General, 2012, 435-436, 197-203.	4.3	48
146	Hybrid porous tin(iv) phosphonate: an efficient catalyst for adipic acid synthesis and a very good adsorbent for CO2 uptake. Chemical Communications, 2012, 48, 6738.	4.1	48
147	Ruthenium Nanoparticle-Decorated Porous Organic Network for Direct Hydrodeoxygenation of Long-Chain Fatty Acids to Alkanes. ACS Sustainable Chemistry and Engineering, 2018, 6, 1610-1619.	6.7	48
148	Enhancement in the reaction rates in the hydroxylation of aromatics over TS-1/H2O2 under solvent-free triphase conditions. Catalysis Today, 1999, 49, 185-191.	4.4	47
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