Piyali Bhanja

List of Publications by Year
in descending order

83 papers	3,279 citations	136950 32 h-index	161849 54 g-index
86 all docs	86 docs citations	86 times ranked	4035 citing authors

#	Article	IF	Citations
1	New microporous nickel phosphonate derivatives N, P-codoped nickel oxides and N, O-codoped nickel phosphides: Potential electrocatalysts for water oxidation. Catalysis Today, 2023, 424, 113771.	4.4	4
2	Newly designed microporous organic-inorganic hybrid cobalt phosphonate for hydrogen evolution reaction. Catalysis Today, 2023, 424, 113789.	4.4	4
3	An overview on advances in design and development of materials for electrochemical generation of hydrogen and oxygen. Materials Today Energy, 2022, 23, 100902.	4.7	33
4	High proton conductivity in a charge carrier-induced Ni(<scp>ii</scp>) metalâ€“organic framework. New Journal of Chemistry, 2022, 46, 1867-1876.	2.8	7
5	Porous organicâ€“inorganic hybrid materials for catalysis, energy and environmental applications. Chemical Communications, 2022, 58, 3429-3460.	4.1	35
6	Novel Microporous Iron-Embedded Cobalt Phosphonates Feasible for Electrochemical Overall Water Splitting. ACS Applied Energy Materials, 2022, 5, 3558-3567.	5.1	15
7	Novel microporous organic-inorganic hybrid metal phosphonates as electrocatalysts towards water oxidation reaction. Electrochimica Acta, 2022, 416, 140277.	5.2	9
8	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 322-332.	9.4	51
9	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
10	Metforminâ€Templated Nanoporous ZnO and Covalent Organic Framework Heterojunction Photoanode for Photoelectrochemical Water Oxidation. ChemSusChem, 2021, 14, 408-416.	6.8	45
11	The design and synthesis of heterogeneous catalysts for environmental applications. Dalton Transactions, 2021, 50, 4765-4771.	3.3	12
12	Understanding the Origin of Structure Sensitivity in Nano Crystalline Mixed Cu/Mgâ^'Al Oxides Catalyst for Lowâ€Pressure Methanol Synthesis. ChemCatChem, 2021, 13, 3290-3302.	3.7	8
13	Influence of Indium as a Promoter on the Stability and Selectivity of the Nanocrystalline Cu/CeO₂ Catalyst for CO₂ Hydrogenation to Methanol. ACS Applied Materials & Interfaces, 2021, 13, 28201-28213.	8.0	27
14	Metalâ€Free Triazineâ€Based 2D Covalent Organic Framework for Efficient H₂ Evolution by Electrochemical Water Splitting. ChemSusChem, 2021, 14, 5057-5064.	6.8	42
15	Bifunctional crystalline microporous organic polymers: Efficient heterogeneous catalysts for the synthesis of 5-hydroxymethylfurfural. Molecular Catalysis, 2021, 515, 111877.	2.0	6
16	Novel Microporous Metal Phosphonates as Electrocatalyst for the Electrochemical Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 12827-12835.	5.1	13
17	Lithium embedded hierarchically porous aluminium phosphonate as anode material for lithium-polymer battery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 274, 115490.	3.5	2
18	Porous organic polymer as an efficient organocatalyst for the synthesis of biofuel ethyl levulinate. Molecular Catalysis, 2020, 494, 111119.	2.0	9

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19	Functionalized porous organic materials as efficient media for the adsorptive removal of Hg(<scp>ii</scp>) ions. Environmental Science: Nano, 2020, 7, 2887-2923.	4.3	44
20	Catalytic reduction of CO₂ into fuels and fine chemicals. Green Chemistry, 2020, 22, 4002-4033.	9.0	162
21	Facile Synthesis of Nanoporous Transition Metalâ€Based Phosphates for Oxygen Evolution Reaction. ChemCatChem, 2020, 12, 2091-2096.	3.7	106
22	Novel porous metal phosphonates as efficient electrocatalysts for the oxygen evolution reaction. Chemical Engineering Journal, 2020, 396, 125245.	12.7	54
23	Crystalline Porous Organic Polymer Bearing â˜SO₃H Functionality for High Proton Conductivity. ACS Sustainable Chemistry and Engineering, 2020, 8, 2423-2432.	6.7	43
24	Materials with Nanoscale Porosity: Energy and Environmental Applications. Chemical Record, 2019, 19, 333-346.	5.8	9
25	Porous Organic Polymers for CO₂ Storage and Conversion Reactions. ChemCatChem, 2019, 11, 244-257.	3.7	153
26	Iron phosphide anchored nanoporous carbon as an efficient electrode for supercapacitors and the oxygen reduction reaction. RSC Advances, 2019, 9, 25240-25247.	3.6	16
27	Nanoarchitectured Metal Phosphates and Phosphonates: A New Material Horizon toward Emerging Applications. Chemistry of Materials, 2019, 31, 5343-5362.	6.7	87
28	Chiral Cr(III)-salen complex embedded over sulfonic acid functionalized mesoporous SBA-15 material as an efficient catalyst for the asymmetric Henry reaction. Molecular Catalysis, 2019, 475, 110489.	2.0	8
29	Ag nanoparticle-decorated, ordered mesoporous silica as an efficient electrocatalyst for alkaline water oxidation reaction. Dalton Transactions, 2019, 48, 2220-2227.	3.3	40
30	Pt Nanoparticles Supported over Porous Porphyrin Nanospheres for Chemoselective Hydrogenation Reactions. ChemCatChem, 2019, 11, 1977-1985.	3.7	23
31	A Sulfonated Porous Polymer as Solid Acid Catalyst for Biofuel Synthesis and Chemical Fixation of CO 2. ChemistrySelect, 2019, 4, 14315-14328.	1.5	13
32	IrO₂ and Pt Doped Mesoporous SnO₂ Nanospheres as Efficient Electrocatalysts for the Facile OER and HER. ChemCatChem, 2019, 11, 583-592.	3.7	82
33	Supported Porous Nanomaterials as Efficient Heterogeneous Catalysts for CO₂ Fixation Reactions. Chemistry - A European Journal, 2018, 24, 7278-7297.	3.3	107
34	Porous Polymer Bearing Polyphenolic Organic Building Units as a Chemotherapeutic Agent for Cancer Treatment. ACS Omega, 2018, 3, 529-535.	3.5	18
35	Ordered mesoporous Î³-Al 2 O 3 as highly efficient and recyclable catalyst for the Knoevenagel reaction at room temperature. Molecular Catalysis, 2018, 451, 220-227.	2.0	12
36	Serendipitous Observation of Liquidâ€Phase Size Selectivity inside a Mesoporous Silica Nanoreactor in the Reaction of Chromene with Formic Acid. ChemCatChem, 2018, 10, 2260-2270.	3.7	7

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37	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 202-209.	6.7	78
38	Synthesis of middle distillate through low temperature Fischer-Tropsch (LTFT) reaction over mesoporous SDA supported cobalt catalysts using syngas equivalent to coal gasification. Applied Catalysis A: General, 2018, 557, 55-63.	4.3	14
39	Porous iron-phosphonate nanomaterial as an efficient catalyst for the CO 2 fixation at atmospheric pressure and esterification of biomass-derived levulinic acid. Catalysis Today, 2018, 309, 253-262.	4.4	41
40	A new microporous oxyfluorinated titanium(IV) phosphate as an efficient heterogeneous catalyst for the selective oxidation of cyclohexanone. Journal of Colloid and Interface Science, 2018, 511, 92-100.	9.4	13
41	Zeoliteâ€Yâ€Mediated Multicomponent Reaction of Isatins, Cyclic 1,3â€Diketones, and 1,2â€Phenylenediamine: Easy Access to Spirodibenzo[1,4]diazepines. ChemCatChem, 2018, 10, 590-600.	3.7	14
42	MnAPO-5 as an efficient heterogeneous catalyst for selective liquid phase partial oxidation reactions. Dalton Transactions, 2018, 47, 791-798.	3.3	10
43	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
44	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
45	Plasmonic gold deposited on mesoporous Ti Si1âˆ'O2 with isolated silica in lattice: An excellent photocatalyst for photocatalytic conversion of CO2 into methanol under visible light irradiation. Journal of CO2 Utilization, 2018, 27, 11-21.	6.8	28
46	Microporous Nanotubes and Nanospheres with Ironâ€Catechol Sites: Efficient Lewis Acid Catalyst and Support for Ag Nanoparticles in CO₂ Fixation Reaction. Chemistry - A European Journal, 2018, 24, 14189-14197.	3.3	34
47	Pd NP-Decorated N-Rich Porous Organic Polymer as an Efficient Catalyst for Upgradation of Biofuels. ACS Omega, 2018, 3, 7639-7647.	3.5	19
48	Frontispiece: Supported Porous Nanomaterials as Efficient Heterogeneous Catalysts for CO₂ Fixation Reactions. Chemistry - A European Journal, 2018, 24, .	3.3	0
49	Chiral copper-salen complex grafted over functionalized mesoporous silica as an efficient catalyst for asymmetric Henry reactions and synthesis of the potent drug (R)-isoproterenol. New Journal of Chemistry, 2018, 42, 11896-11904.	2.8	19
50	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
51	A New Triazineâ€Based Covalent Organic Framework for Highâ€Performance Capacitive Energy Storage. ChemSusChem, 2017, 10, 921-929.	6.8	132
52	Silver nanoparticles supported over mesoporous alumina as an efficient nanocatalyst for N-alkylation of hetero (aromatic) amines and aromatic amines using alcohols as alkylating agent. Journal of Colloid and Interface Science, 2017, 493, 206-217.	9.4	21
53	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
54	Acid-Functionalized Mesoporous SBA-15â€‰as an Efficient Heterogeneous Organocatalyst for the Green Synthesis of Î²-Amino Alcohol Derivatives. ChemistrySelect, 2017, 2, 2159-2165.	1.5	7

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55	Functionalized SBA-15 material with grafted CO2H group as an efficient heterogeneous acid catalyst for the fixation of CO2 on epoxides under atmospheric pressure. Molecular Catalysis, 2017, 434, 25-31.	2.0	29
56	Triazine containing N-rich microporous organic polymers for CO 2 capture and unprecedented CO 2 /N 2 selectivity. Journal of Solid State Chemistry, 2017, 247, 113-119.	2.9	29
57	Palladium nanoparticles embedded over mesoporous TiO₂ for chemical fixation of CO₂ under atmospheric pressure and solvent-free conditions. New Journal of Chemistry, 2017, 41, 12937-12946.	2.8	39
58	Palladium nanoparticles embedded on mesoporous TiO2 material (Pd@MTiO2) as an efficient heterogeneous catalyst for Suzuki-Coupling reactions in water medium. Journal of Colloid and Interface Science, 2017, 508, 378-386.	9.4	42
59	Covalent Organic Framework Material Bearing Phloroglucinol Building Units as a Potent Anticancer Agent. ACS Applied Materials & Interfaces, 2017, 9, 31411-31423.	8.0	78
60	Pt and Pd Nanoparticles Immobilized on Amine-Functionalized Hypercrosslinked Porous Polymer Nanotubes as Selective Hydrogenation Catalyst for Î±,Î²-Unsaturated Aldehydes. ChemistrySelect, 2017, 2, 7535-7543.	1.5	23
61	Mesoporous Zirconium Oxophosphate: An Efficient Catalyst for the Synthesis of Cyclic Acetals and Cyclic Carbonates under Solventâ€Free Conditions. ChemistrySelect, 2017, 2, 10595-10602.	1.5	7
62	An ExpeditiousSynthesis of Spiro[chromeno[2,3-c]pyrazole-4,3â€²-indolin]-2â€²5-diones Catalysed by RecyclableSpinel ZnFe₂ O₄ Nanopowder. ChemistrySelect, 2017, 2, 4857-4865.	1.5	9
63	Silver nanoparticles supported over Al 2 O 3 @Fe 2 O 3 core-shell nanoparticles as an efficient catalyst for one-pot synthesis of 1,2,3-triazoles and acylation of benzyl alcohol. Molecular Catalysis, 2017, 439, 31-40.	2.0	34
64	NASICON type ordered mesoporous lithium-aluminum-titanium-phosphate as electrode materials for lithium-ion batteries. Microporous and Mesoporous Materials, 2017, 240, 57-64.	4.4	20
65	Organicâ€“Inorganic Hybrid Metal Phosphonates as Recyclable Heterogeneous Catalysts. ChemCatChem, 2016, 8, 1607-1616.	3.7	45
66	An efficient mesoporous carbon nitride (g-C₃N₄) functionalized Pd catalyst for carbonâ€“carbon bond formation reactions. RSC Advances, 2016, 6, 49376-49386.	3.6	35
67	Triazineâ€Based Porous Organic Polymer with Good CO₂ Gas Adsorption Properties and an Efficient Organocatalyst for the Oneâ€Pot Multicomponent Condensation Reaction. ChemCatChem, 2016, 8, 3089-3098.	3.7	27
68	New Hybrid Iron Phosphonate Material as an Efficient Catalyst for the Synthesis of Adipic Acid in Air and Water. ACS Sustainable Chemistry and Engineering, 2016, 4, 7147-7157.	6.7	44
69	A new recyclable functionalized mesoporous SBA-15 catalyst grafted with chiral Fe(<scp>iii</scp>) sites for the enantioselective aminolysis of racemic epoxides under solvent free conditions. RSC Advances, 2016, 6, 97599-97605.	3.6	8
70	Porous nanomaterials as green catalyst for the conversion of biomass to bioenergy. Fuel, 2016, 185, 432-441.	6.4	108
71	Functionalized graphene oxide as an efficient adsorbent for CO₂ capture and support for heterogeneous catalysis. RSC Advances, 2016, 6, 72055-72068.	3.6	58
72	Functionalized Porous Nanomaterials as Efficient Heterogeneous Catalyst for Eco-Friendly Organic Transformations. Journal of Nanoscience and Nanotechnology, 2016, 16, 9050-9062.	0.9	5

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73	A Highly Ordered N-Rich Functionalized Mesoporous Material for CO₂ Storage Application. Journal of Nanoscience and Nanotechnology, 2016, 16, 9223-9230.	0.9	4
74	Chiral Co(<scp>iii</scp>)â€“salen complex supported over highly ordered functionalized mesoporous silica for enantioselective aminolysis of racemic epoxides. RSC Advances, 2016, 6, 109315-109321.	3.6	23
75	A magnetically recoverable nanocatalyst based on functionalized mesoporous silica. Journal of Molecular Catalysis A, 2016, 415, 17-26.	4.8	5
76	A new Cu-anchored mesoporous organosilica material for facile Câ€“S coupling reactions under microwave irradiation. Journal of Molecular Catalysis A, 2016, 415, 104-112.	4.8	24
77	Micelle-templated synthesis of Pt hollow nanospheres for catalytic hydrogen evolution. RSC Advances, 2016, 6, 11370-11377.	3.6	14
78	A new chiral Fe(<scp>iii</scp>)â€“salen grafted mesoporous catalyst for enantioselective asymmetric ring opening of racemic epoxides at room temperature under solvent-free conditions. Chemical Communications, 2016, 52, 1871-1874.	4.1	45
79	Highly efficient Au hollow nanosphere catalyzed chemo-selective oxidation of alcohols. Journal of Molecular Catalysis A, 2016, 411, 87-94.	4.8	16
80	Sulfonated porous organic polymer as a highly efficient catalyst for the synthesis of biodiesel at room temperature. Journal of Molecular Catalysis A, 2016, 411, 110-116.	4.8	44
81	Rapid template-free synthesis of an air-stable hierarchical copper nanoassembly and its use as a reusable catalyst for 4-nitrophenol reduction. RSC Advances, 2015, 5, 101519-101524.	3.6	45
82	A triazine-based covalent organic polymer for efficient CO₂ adsorption. Chemical Communications, 2015, 51, 10050-10053.	4.1	248
83	N-rich porous organic polymer with suitable donorâ€“donorâ€“acceptor functionality for the sensing of nucleic acid bases and CO₂storage application. RSC Advances, 2015, 5, 74916-74923.	3.6	15