

Piyali Bhanja

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/405704/publications.pdf>

Version: 2024-02-01

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	A triazine-based covalent organic polymer for efficient CO ₂ adsorption. Chemical Communications, 2015, 51, 10050-10053.	4.1	248
2	Catalytic reduction of CO ₂ into fuels and fine chemicals. Green Chemistry, 2020, 22, 4002-4033.	9.0	162
3	Porous Organic Polymers for CO ₂ Storage and Conversion Reactions. ChemCatChem, 2019, 11, 244-257.	3.7	153
4	A New Triazine-Based Covalent Organic Framework for High-Performance Capacitive Energy Storage. ChemSusChem, 2017, 10, 921-929.	6.8	132
5	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
6	Porous nanomaterials as green catalyst for the conversion of biomass to bioenergy. Fuel, 2016, 185, 432-441.	6.4	108
7	Supported Porous Nanomaterials as Efficient Heterogeneous Catalysts for CO ₂ Fixation Reactions. Chemistry - A European Journal, 2018, 24, 7278-7297.	3.3	107
8	Facile Synthesis of Nanoporous Transition Metal-Based Phosphates for Oxygen Evolution Reaction. ChemCatChem, 2020, 12, 2091-2096.	3.7	106
9	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
10	Nanoarchitected Metal Phosphates and Phosphonates: A New Material Horizon toward Emerging Applications. Chemistry of Materials, 2019, 31, 5343-5362.	6.7	87
11	IrO ₂ and Pt Doped Mesoporous SnO ₂ Nanospheres as Efficient Electrocatalysts for the Facile OER and HER. ChemCatChem, 2019, 11, 583-592.	3.7	82
12	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
13	Covalent Organic Framework Material Bearing Phloroglucinol Building Units as a Potent Anticancer Agent. ACS Applied Materials & Interfaces, 2017, 9, 31411-31423.	8.0	78
14	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 202-209.	6.7	78
15	Role of Surface Phenolic-OH Groups in N-Rich Porous Organic Polymers for Enhancing the CO ₂ Uptake and CO ₂ /N ₂ Selectivity: Experimental and Computational Studies. ACS Applied Materials & Interfaces, 2018, 10, 23813-23824.	8.0	74
16	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
17	Functionalized graphene oxide as an efficient adsorbent for CO ₂ capture and support for heterogeneous catalysis. RSC Advances, 2016, 6, 72055-72068.	3.6	58
18	Novel porous metal phosphonates as efficient electrocatalysts for the oxygen evolution reaction. Chemical Engineering Journal, 2020, 396, 125245.	12.7	54

#	ARTICLE	IF	CITATIONS
19	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 322-332.	9.4	51
20	Rapid template-free synthesis of an air-stable hierarchical copper nanoassembly and its use as a reusable catalyst for 4-nitrophenol reduction. <i>RSC Advances</i> , 2015, 5, 101519-101524.	3.6	45
21	Organic-Inorganic Hybrid Metal Phosphonates as Recyclable Heterogeneous Catalysts. <i>ChemCatChem</i> , 2016, 8, 1607-1616.	3.7	45
22	A new chiral Fe(III)-salen grafted mesoporous catalyst for enantioselective asymmetric ring opening of racemic epoxides at room temperature under solvent-free conditions. <i>Chemical Communications</i> , 2016, 52, 1871-1874.	4.1	45
23	Metformin-Templated Nanoporous ZnO and Covalent Organic Framework Heterojunction Photoanode for Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2021, 14, 408-416.	6.8	45
24	New Hybrid Iron Phosphonate Material as an Efficient Catalyst for the Synthesis of Adipic Acid in Air and Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7147-7157.	6.7	44
25	Sulfonated porous organic polymer as a highly efficient catalyst for the synthesis of biodiesel at room temperature. <i>Journal of Molecular Catalysis A</i> , 2016, 411, 110-116.	4.8	44
26	Functionalized porous organic materials as efficient media for the adsorptive removal of Hg(II) ions. <i>Environmental Science: Nano</i> , 2020, 7, 2887-2923.	4.3	44
27	Crystalline Porous Organic Polymer Bearing SO_3H Functionality for High Proton Conductivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2423-2432.	6.7	43
28	Palladium nanoparticles embedded on mesoporous TiO ₂ material (Pd@MTiO ₂) as an efficient heterogeneous catalyst for Suzuki-Coupling reactions in water medium. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 378-386.	9.4	42
29	Metal-Free Triazine-Based 2D Covalent Organic Framework for Efficient H ₂ Evolution by Electrochemical Water Splitting. <i>ChemSusChem</i> , 2021, 14, 5057-5064.	6.8	42
30	Porous iron-phosphonate nanomaterial as an efficient catalyst for the CO ₂ fixation at atmospheric pressure and esterification of biomass-derived levulinic acid. <i>Catalysis Today</i> , 2018, 309, 253-262.	4.4	41
31	Ag nanoparticle-decorated, ordered mesoporous silica as an efficient electrocatalyst for alkaline water oxidation reaction. <i>Dalton Transactions</i> , 2019, 48, 2220-2227.	3.3	40
32	Palladium nanoparticles embedded over mesoporous TiO ₂ for chemical fixation of CO ₂ under atmospheric pressure and solvent-free conditions. <i>New Journal of Chemistry</i> , 2017, 41, 12937-12946.	2.8	39
33	An efficient mesoporous carbon nitride (g-C ₃ N ₄) functionalized Pd catalyst for carbon-carbon bond formation reactions. <i>RSC Advances</i> , 2016, 6, 49376-49386.	3.6	35
34	Porous organic-inorganic hybrid materials for catalysis, energy and environmental applications. <i>Chemical Communications</i> , 2022, 58, 3429-3460.	4.1	35
35	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. <i>Molecular Catalysis</i> , 2017, 439, 31-40.	2.0	34
36	Microporous Nanotubes and Nanospheres with Iron-Catechol Sites: Efficient Lewis Acid Catalyst and Support for Ag Nanoparticles in CO ₂ Fixation Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 14189-14197.	3.3	34

#	ARTICLE	IF	CITATIONS
37	An overview on advances in design and development of materials for electrochemical generation of hydrogen and oxygen. <i>Materials Today Energy</i> , 2022, 23, 100902.	4.7	33
38	Functionalized SBA-15 material with grafted CO ₂ H group as an efficient heterogeneous acid catalyst for the fixation of CO ₂ on epoxides under atmospheric pressure. <i>Molecular Catalysis</i> , 2017, 434, 25-31.	2.0	29
39	Triazine containing N-rich microporous organic polymers for CO ₂ capture and unprecedented CO ₂ /N ₂ selectivity. <i>Journal of Solid State Chemistry</i> , 2017, 247, 113-119.	2.9	29
40	Plasmonic gold deposited on mesoporous Ti Si _{1-x} O ₂ with isolated silica in lattice: An excellent photocatalyst for photocatalytic conversion of CO ₂ into methanol under visible light irradiation. <i>Journal of CO₂ Utilization</i> , 2018, 27, 11-21.	6.8	28
41	Triazine-Based Porous Organic Polymer with Good CO ₂ Gas Adsorption Properties and an Efficient Organocatalyst for the One-Pot Multicomponent Condensation Reaction. <i>ChemCatChem</i> , 2016, 8, 3089-3098.	3.7	27
42	Influence of Indium as a Promoter on the Stability and Selectivity of the Nanocrystalline Cu/CeO ₂ Catalyst for CO ₂ Hydrogenation to Methanol. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28201-28213.	8.0	27
43	A new Cu-anchored mesoporous organosilica material for facile C-S coupling reactions under microwave irradiation. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 104-112.	4.8	24
44	Chiral Co(salen) complex supported over highly ordered functionalized mesoporous silica for enantioselective aminolysis of racemic epoxides. <i>RSC Advances</i> , 2016, 6, 109315-109321.	3.6	23
45	Pt and Pd Nanoparticles Immobilized on Amine-Functionalized Hypercrosslinked Porous Polymer Nanotubes as Selective Hydrogenation Catalyst for 1,2-Unsaturated Aldehydes. <i>ChemistrySelect</i> , 2017, 2, 7535-7543.	1.5	23
46	Pt Nanoparticles Supported over Porous Porphyrin Nanospheres for Chemoselective Hydrogenation Reactions. <i>ChemCatChem</i> , 2019, 11, 1977-1985.	3.7	23
47	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. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 206-217.	9.4	21
48	NASICON type ordered mesoporous lithium-aluminum-titanium-phosphate as electrode materials for lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2017, 240, 57-64.	4.4	20
49	Pd NP-Decorated N-Rich Porous Organic Polymer as an Efficient Catalyst for Upgradation of Biofuels. <i>ACS Omega</i> , 2018, 3, 7639-7647.	3.5	19
50	Chiral copper-salen complex grafted over functionalized mesoporous silica as an efficient catalyst for asymmetric Henry reactions and synthesis of the potent drug (<i>R</i>)-isoproterenol. <i>New Journal of Chemistry</i> , 2018, 42, 11896-11904.	2.8	19
51	Porous Polymer Bearing Polyphenolic Organic Building Units as a Chemotherapeutic Agent for Cancer Treatment. <i>ACS Omega</i> , 2018, 3, 529-535.	3.5	18
52	Highly efficient Au hollow nanosphere catalyzed chemo-selective oxidation of alcohols. <i>Journal of Molecular Catalysis A</i> , 2016, 411, 87-94.	4.8	16
53	Iron phosphide anchored nanoporous carbon as an efficient electrode for supercapacitors and the oxygen reduction reaction. <i>RSC Advances</i> , 2019, 9, 25240-25247.	3.6	16
54	N-rich porous organic polymer with suitable donor-acceptor functionality for the sensing of nucleic acid bases and CO ₂ storage application. <i>RSC Advances</i> , 2015, 5, 74916-74923.	3.6	15

#	ARTICLE	IF	CITATIONS
55	Novel Microporous Iron-Embedded Cobalt Phosphonates Feasible for Electrochemical Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2022, 5, 3558-3567.	5.1	15
56	Micelle-templated synthesis of Pt hollow nanospheres for catalytic hydrogen evolution. <i>RSC Advances</i> , 2016, 6, 11370-11377.	3.6	14
57	Synthesis of middle distillate through low temperature Fischer-Tropsch (LTFT) reaction over mesoporous SDA supported cobalt catalysts using syngas equivalent to coal gasification. <i>Applied Catalysis A: General</i> , 2018, 557, 55-63.	4.3	14
58	Zeolite- γ -Mediated Multicomponent Reaction of Isatins, Cyclic 1,3-Diketones, and 1,2-Phenylenediamine: Easy Access to Spirodibenzo[1,4]diazepines. <i>ChemCatChem</i> , 2018, 10, 590-600.	3.7	14
59	A new microporous oxyfluorinated titanium(IV) phosphate as an efficient heterogeneous catalyst for the selective oxidation of cyclohexanone. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 92-100.	9.4	13
60	A Sulfonated Porous Polymer as Solid Acid Catalyst for Biofuel Synthesis and Chemical Fixation of CO ₂ . <i>ChemistrySelect</i> , 2019, 4, 14315-14328.	1.5	13
61	Novel Microporous Metal Phosphonates as Electrocatalyst for the Electrochemical Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 12827-12835.	5.1	13
62	Ordered mesoporous γ -Al ₂ O ₃ as highly efficient and recyclable catalyst for the Knoevenagel reaction at room temperature. <i>Molecular Catalysis</i> , 2018, 451, 220-227.	2.0	12
63	The design and synthesis of heterogeneous catalysts for environmental applications. <i>Dalton Transactions</i> , 2021, 50, 4765-4771.	3.3	12
64	MnAPO-5 as an efficient heterogeneous catalyst for selective liquid phase partial oxidation reactions. <i>Dalton Transactions</i> , 2018, 47, 791-798.	3.3	10
65	An Expedient Synthesis of Spiro[chromeno[2,3-c]pyrazole-4,3'-indolin]-2,5-diones Catalysed by Recyclable Spinel ZnFe ₂ O ₄ Nanopowder. <i>ChemistrySelect</i> , 2017, 2, 4857-4865.	1.5	9
66	Materials with Nanoscale Porosity: Energy and Environmental Applications. <i>Chemical Record</i> , 2019, 19, 333-346.	5.8	9
67	Porous organic polymer as an efficient organocatalyst for the synthesis of biofuel ethyl levulinate. <i>Molecular Catalysis</i> , 2020, 494, 111119.	2.0	9
68	Novel microporous organic-inorganic hybrid metal phosphonates as electrocatalysts towards water oxidation reaction. <i>Electrochimica Acta</i> , 2022, 416, 140277.	5.2	9
69	A new recyclable functionalized mesoporous SBA-15 catalyst grafted with chiral Fe(scp) sites for the enantioselective aminolysis of racemic epoxides under solvent free conditions. <i>RSC Advances</i> , 2016, 6, 97599-97605.	3.6	8
70	Chiral Cr(III)-salen complex embedded over sulfonic acid functionalized mesoporous SBA-15 material as an efficient catalyst for the asymmetric Henry reaction. <i>Molecular Catalysis</i> , 2019, 475, 110489.	2.0	8
71	Understanding the Origin of Structure Sensitivity in Nano Crystalline Mixed Cu/Mg γ -Al Oxides Catalyst for Low-Pressure Methanol Synthesis. <i>ChemCatChem</i> , 2021, 13, 3290-3302.	3.7	8
72	Acid-Functionalized Mesoporous SBA-15 as an Efficient Heterogeneous Organocatalyst for the Green Synthesis of β -Amino Alcohol Derivatives. <i>ChemistrySelect</i> , 2017, 2, 2159-2165.	1.5	7

#	ARTICLE	IF	CITATIONS
73	Mesoporous Zirconium Oxophosphate: An Efficient Catalyst for the Synthesis of Cyclic Acetals and Cyclic Carbonates under Solvent-Free Conditions. <i>ChemistrySelect</i> , 2017, 2, 10595-10602.	1.5	7
74	Serendipitous Observation of Liquid-Phase Size Selectivity inside a Mesoporous Silica Nanoreactor in the Reaction of Chromene with Formic Acid. <i>ChemCatChem</i> , 2018, 10, 2260-2270.	3.7	7
75	High proton conductivity in a charge carrier-induced Ni-metal-organic framework. <i>New Journal of Chemistry</i> , 2022, 46, 1867-1876.	2.8	7
76	Bifunctional crystalline microporous organic polymers: Efficient heterogeneous catalysts for the synthesis of 5-hydroxymethylfurfural. <i>Molecular Catalysis</i> , 2021, 515, 111877.	2.0	6
77	Functionalized Porous Nanomaterials as Efficient Heterogeneous Catalyst for Eco-Friendly Organic Transformations. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9050-9062.	0.9	5
78	A magnetically recoverable nanocatalyst based on functionalized mesoporous silica. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 17-26.	4.8	5
79	A Highly Ordered N-Rich Functionalized Mesoporous Material for CO ₂ Storage Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9223-9230.	0.9	4
80	New microporous nickel phosphonate derivatives N, P-codoped nickel oxides and N, O-codoped nickel phosphides: Potential electrocatalysts for water oxidation. <i>Catalysis Today</i> , 2023, 424, 113771.	4.4	4
81	Newly designed microporous organic-inorganic hybrid cobalt phosphonate for hydrogen evolution reaction. <i>Catalysis Today</i> , 2023, 424, 113789.	4.4	4
82	Lithium embedded hierarchically porous aluminium phosphonate as anode material for lithium-polymer battery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 274, 115490.	3.5	2
83	Frontispiece: Supported Porous Nanomaterials as Efficient Heterogeneous Catalysts for CO ₂ Fixation Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0