

Hasmukh A Patel

List of Publications by Year in descending order

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66
papers

4,103
citations

126907

33
h-index

149698

56
g-index

67
all docs

67
docs citations

67
times ranked

5457
citing authors

#	ARTICLE	IF	CITATIONS
1	Unprecedented high-temperature CO ₂ selectivity in N ₂ -phobic nanoporous covalent organic polymers. <i>Nature Communications</i> , 2013, 4, 1357.	12.8	456
2	Carbon Dioxide Capture Adsorbents: Chemistry and Methods. <i>ChemSusChem</i> , 2017, 10, 1303-1317.	6.8	313
3	Nanoclays for polymer nanocomposites, paints, inks, greases and cosmetics formulations, drug delivery vehicle and waste water treatment. <i>Bulletin of Materials Science</i> , 2006, 29, 133-145.	1.7	285
4	Montmorillonite as a drug delivery system: Intercalation and in vitro release of timolol maleate. <i>International Journal of Pharmaceutics</i> , 2009, 374, 53-57.	5.2	276
5	Noninvasive functionalization of polymers of intrinsic microporosity for enhanced CO ₂ capture. <i>Chemical Communications</i> , 2012, 48, 9989.	4.1	199
6	High capacity carbon dioxide adsorption by inexpensive covalent organic polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 8431.	6.7	187
7	Preparation and characterization of phosphonium montmorillonite with enhanced thermal stability. <i>Applied Clay Science</i> , 2007, 35, 194-200.	5.2	186
8	Montmorillonite intercalated with vitamin B1 as drug carrier. <i>Applied Clay Science</i> , 2009, 45, 248-253.	5.2	154
9	Superacidity in Nafion/MOF Hybrid Membranes Retains Water at Low Humidity to Enhance Proton Conduction for Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30687-30691.	8.0	139
10	Highly Stable Nanoporous Sulfur-Bridged Covalent Organic Polymers for Carbon Dioxide Removal. <i>Advanced Functional Materials</i> , 2013, 23, 2270-2276.	14.9	135
11	Charge-specific size-dependent separation of water-soluble organic molecules by fluorinated nanoporous networks. <i>Nature Communications</i> , 2016, 7, 13377.	12.8	132
12	Directing the Structural Features of N ₂ -Phobic Nanoporous Covalent Organic Polymers for CO ₂ Capture and Separation. <i>Chemistry - A European Journal</i> , 2014, 20, 772-780.	3.3	128
13	Selective removal of heavy metal ions by disulfide linked polymer networks. <i>Journal of Hazardous Materials</i> , 2017, 332, 140-148.	12.4	101
14	Nanoporous covalent organic polymers incorporating Tröger's base functionalities for enhanced CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12507.	10.3	90
15	Discrete Dimers of Redox-Active and Fluorescent Perylene Diimide-Based Rigid Isosceles Triangles in the Solid State. <i>Journal of the American Chemical Society</i> , 2019, 141, 1290-1303.	13.7	87
16	An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO ₂ Capacity of a Solid@Amine@Carbon Sorbent. <i>Advanced Materials</i> , 2015, 27, 4903-4909.	21.0	81
17	Noninvasive Substitution of K ⁺ Sites in Cyclodextrin Metal-Organic Frameworks by Li ⁺ Ions. <i>Journal of the American Chemical Society</i> , 2017, 139, 11020-11023.	13.7	79
18	Montmorillonite-Alginate Nanocomposites as a Drug Delivery System: Intercalation and In Vitro Release of Vitamin B ₁ and Vitamin B ₆ . <i>Journal of Biomaterials Applications</i> , 2010, 25, 161-177.	2.4	76

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19	Rhodium nanoparticles intercalated into montmorillonite for hydrogenation of aromatic compounds in the presence of thiophene. <i>Applied Clay Science</i> , 2009, 42, 386-390.	5.2	56
20	Selective adsorption of carbon dioxide over nitrogen on calcined synthetic hectorites with tailor-made porosity. <i>Applied Clay Science</i> , 2009, 46, 109-113.	5.2	56
21	Investigation of Ester- and Amide-Linker-Based Porous Organic Polymers for Carbon Dioxide Capture and Separation at Wide Temperatures and Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20772-20785.	8.0	52
22	Cross-Linked "Poisonous" Polymer: Thermochemically Stable Catalyst Support for Tuning Chemoselectivity. <i>ACS Catalysis</i> , 2016, 6, 2435-2442.	11.2	52
23	Nanoporous Benzoxazole Networks by Silylated Monomers, Their Exceptional Thermal Stability, and Carbon Dioxide Capture Capacity. <i>Chemistry of Materials</i> , 2014, 26, 6729-6733.	6.7	50
24	Synthesis of jasminaldehyde using magnesium organo silicate as a solid base catalyst. <i>Journal of Molecular Catalysis A</i> , 2008, 280, 61-67.	4.8	49
25	A combined computational and experimental study of high pressure and supercritical CO ₂ adsorption on Basolite MOFs. <i>Microporous and Mesoporous Materials</i> , 2013, 175, 34-42.	4.4	45
26	Highly optimized CO ₂ capture by inexpensive nanoporous covalent organic polymers and their amine composites. <i>Faraday Discussions</i> , 2015, 183, 401-412.	3.2	39
27	Rapid extraction of uranium ions from seawater using novel porous polymeric adsorbents. <i>RSC Advances</i> , 2016, 6, 45968-45976.	3.6	38
28	Synthetic talc as a solid base catalyst for condensation of aldehydes and ketones. <i>Journal of Molecular Catalysis A</i> , 2008, 286, 31-40.	4.8	36
29	Nanoporous networks as effective stabilisation matrices for nanoscale zero-valent iron and groundwater pollutant removal. <i>Journal of Materials Chemistry A</i> , 2016, 4, 632-639.	10.3	36
30	Intercalation and controlled release of vitamin B6 from montmorillonite "vitamin B6 hybrid. <i>Colloid and Polymer Science</i> , 2009, 287, 1071-1076.	2.1	35
31	Synthesis of nanoporous 1,2,4-oxadiazole networks with high CO ₂ capture capacity. <i>Chemical Communications</i> , 2015, 51, 2915-2917.	4.1	35
32	Sustained release of venlafaxine from venlafaxine "montmorillonite" polyvinylpyrrolidone composites. <i>Applied Clay Science</i> , 2011, 51, 126-130.	5.2	34
33	Systematic Investigation of the Effect of Polymerization Routes on the Gas Sorption Properties of Nanoporous Azobenzene Polymers. <i>Chemistry - A European Journal</i> , 2015, 21, 15320-15327.	3.3	34
34	Montmorillonite-alginate composites as a drug delivery system: Intercalation and In vitro release of diclofenac sodium. <i>Indian Journal of Pharmaceutical Sciences</i> , 2010, 72, 732.	1.0	34
35	Reversible water capture by a charged metal-free porous polymer. <i>Polymer</i> , 2017, 126, 308-313.	3.8	33
36	Proton Conduction in Tröger's Base-Linked Poly(crown ether)s. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25303-25310.	8.0	27

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37	Porous synthetic hectorites for selective adsorption of carbon dioxide over nitrogen, methane, carbon monoxide and oxygen. Applied Clay Science, 2014, 91-92, 63-69.	5.2	25
38	Synthesis of Pd and Rh metal nanoparticles in the interlayer space of organically modified montmorillonite. Journal of Nanoparticle Research, 2008, 10, 625-632.	1.9	22
39	Sorption of Nitrobenzene from Aqueous Solution on Organoclays in Batch and Fixed-Bed Systems. Industrial & Engineering Chemistry Research, 2009, 48, 1051-1058.	3.7	22
40	Exceptional organic solvent uptake by disulfide-linked polymeric networks. RSC Advances, 2014, 4, 24320.	3.6	21
41	Synthesis of Organoclays with Controlled Particle Size and Whiteness from Chemically Treated Indian Bentonite. Industrial & Engineering Chemistry Research, 2010, 49, 1677-1683.	3.7	19
42	Arsenic removal by magnetic nanocrystalline barium hexaferrite. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	18
43	Nanoporous networks as caging supports for uniform, surfactant-free Co ₃ O ₄ nanocrystals and their applications in energy storage and conversion. Journal of Materials Chemistry A, 2015, 3, 15489-15497.	10.3	18
44	A combined experimental and theoretical study on gas adsorption performance of amine and amide porous polymers. Microporous and Mesoporous Materials, 2019, 279, 61-72.	4.4	15
45	Discrete Open-Shell Tris(bipyridinium radical cationic) Inclusion Complexes in the Solid State. Journal of the American Chemical Society, 2021, 143, 163-175.	13.7	15
46	Magnetic BaFe ₁₂ O ₁₉ nanofiber filter for effective separation of Fe ₃ O ₄ nanoparticles and removal of arsenic. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	13
47	Organically modified layered magnesium silicates to improve rheology of reservoir drilling fluids. Scientific Reports, 2020, 10, 13851.	3.3	13
48	Platinum nanoparticle intercalated montmorillonite to enhance the char formation of polyamide 6 nanocomposites. Journal of Materials Chemistry, 2010, 20, 9550.	6.7	10
49	Synthesis of Highly Dispersed Gold and Silver Nanoparticles Anchored on Surfactant Intercalated Montmorillonite. Journal of Nanoscience and Nanotechnology, 2009, 9, 5946-5952.	0.9	7
50	One-pot synthesis of hexadecyl modified layered magnesium silicate and polyethylene based nanocomposite preparation. Applied Clay Science, 2013, 80-81, 320-325.	5.2	7
51	Sustainable Nanoporous Benzoxazole Networks as Metal-Free Catalysts for One-Pot Oxidative Self-Coupling of Amines by Air Oxygen. Advanced Sustainable Systems, 2017, 1, 1700089.	5.3	7
52	Mechanical and thermal properties of polypropylene nanocomposites using organically modified Indian bentonite. Polymer Composites, 2010, 31, 399-404.	4.6	6
53	Cross-linked polyrotaxane to improve mechanical properties of oil well cement. MRS Communications, 2021, 11, 762-769.	1.8	5
54	Exceptional Flat Rheology Using a Synthetic Organic-Inorganic Hybrid in Oil-Based Muds Under High Pressure and High Temperature. , 2019, , .		3

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55	Covalently-Linked Organic Functionalities on Nano-Platelets as a Viscosifier for Oil-Based Muds. , 2019, , .		3
56	Carbon Capture: An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO ₂ Capacity of a Solidâ€Amine@Carbon Sorbent (Adv. Mater. 33/2015). Advanced Materials, 2015, 27, 4902-4902.	21.0	2
57	Arsenic removal by magnetic nanocrystalline barium hexaferrite. , 2012, , 163-169.		2
58	Exceptional CO2 absorption by covalent organic polymers (COPs). Qatar Foundation Annual Research Forum Proceedings, 2012, , .	0.0	1
59	Functionalized Layered Nanomaterials: A Next-Generation Shale Inhibitor. , 2020, , .		1
60	Impervious synthetic layered silicates coating to restrict the swelling of clayâ€rich shales. Canadian Journal of Chemical Engineering, 2022, 100, 1244-1252.	1.7	1
61	Anisotropic Nano-Platelets to Develop Gel Strength at High Temperature in Aqueous Fluids. , 2021, , .		1
62	Triazine Polymers for Improving Elastic Properties in Oil Well Cements. , 2021, , .		1
63	Exceptional CO2 capture via polymeric materials. , 2012, , 38-41.		0
64	Expandable, Acid Soluble and Settable LCM for Severe Losses. , 2020, , .		0
65	Expandable, Acid Soluble and Settable LCM for Severe Losses. , 2020, , .		0
66	Next Generation High Performance Invert Emulsion Drilling Fluids with Flat-Rheological Behavior. , 2021, , .		0