

Isabel Diaz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4120834/publications.pdf>

Version: 2024-02-01

88
papers

4,263
citations

136950

32
h-index

110387

64
g-index

91
all docs

91
docs citations

91
times ranked

5215
citing authors

#	ARTICLE	IF	CITATIONS
1	Merocyanine 540 as an optical probe of transmembrane electrical activity in the heart. <i>Science</i> , 2003, 191, 485-487.	12.6	987
2	Synthesis of metal-organic frameworks in water at room temperature: salts as linker sources. <i>Green Chemistry</i> , 2015, 17, 1500-1509.	9.0	263
3	Sustainable Preparation of MIL-100(Fe) and Its Photocatalytic Behavior in the Degradation of Methyl Orange in Water. <i>Crystal Growth and Design</i> , 2017, 17, 1806-1813.	3.0	251
4	Zeolite (MFI) Crystal Morphology Control Using Organic Structure-Directing Agents. <i>Chemistry of Materials</i> , 2004, 16, 5697-5705.	6.7	164
5	Three-Dimensional Cubic Mesoporous Structures of SBA-12 and Related Materials by Electron Crystallography. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3118-3123.	2.6	160
6	Nanoscaled M-MOF-74 Materials Prepared at Room Temperature. <i>Crystal Growth and Design</i> , 2014, 14, 2479-2487.	3.0	155
7	Immobilization of lipase in ordered mesoporous materials: Effect of textural and structural parameters. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 201-213.	4.4	107
8	Surface Structure of Zeolite (MFI) Crystals. <i>Chemistry of Materials</i> , 2004, 16, 5226-5232.	6.7	95
9	Synthesis of zeolite A from Ethiopian kaolin. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 29-36.	4.4	89
10	Enhanced photocatalytic activity of TiO ₂ supported on zeolites tested in real wastewaters from the textile industry of Ethiopia. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 88-97.	4.4	85
11	Atomic Resolution Analysis of Silver Ion-Exchanged Zeolite...A. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11230-11233.	13.8	83
12	Conventional versus alkali fusion synthesis of zeolite A from low grade kaolin. <i>Applied Clay Science</i> , 2016, 132-133, 485-490.	5.2	83
13	Natural zeolites from Ethiopia for elimination of fluoride from drinking water. <i>Separation and Purification Technology</i> , 2013, 120, 224-229.	7.9	80
14	A comparative study of periodic mesoporous organosilica and different hydrophobic mesoporous silicas for lipase immobilization. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 487-493.	4.4	68
15	High Energy Ion Irradiation-Induced Ordered Macropores in Zeolite Crystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 18950-18956.	13.7	66
16	Room temperature synthesis of metal organic framework MOF-2. <i>Journal of Porous Materials</i> , 2014, 21, 769-773.	2.6	63
17	Enhanced photocatalytic activity of supported TiO ₂ by selective surface modification of zeolite Y. <i>Applied Surface Science</i> , 2016, 378, 473-478.	6.1	54
18	Atomic resolution analysis of porous solids: A detailed study of silver ion-exchanged zeolite A. <i>Microporous and Mesoporous Materials</i> , 2013, 166, 117-122.	4.4	52

#	ARTICLE	IF	CITATIONS
19	TEM studies of zeolites and ordered mesoporous materials. <i>Micron</i> , 2011, 42, 512-527.	2.2	51
20	Preparation and characterization of cationic surfactant modified zeolite adsorbent material for adsorption of organic and inorganic industrial pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3319-3329.	6.7	50
21	Mesoporous Silicas with Tunable Morphology for the Immobilization of Laccase. <i>Molecules</i> , 2014, 19, 7057-7071.	3.8	47
22	Synthesis, characterization and photocatalytic activity of zeolite supported ZnO/Fe ₂ O ₃ /MnO ₂ nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1586-1591.	6.7	47
23	Mesoporous titanosilicates synthesized from TS-1 precursors with enhanced catalytic activity in the β -pinene selective oxidation. <i>Applied Catalysis A: General</i> , 2008, 343, 77-86.	4.3	43
24	Ion-exchange in natural zeolite stilbite and significance in defluoridation ability. <i>Microporous and Mesoporous Materials</i> , 2014, 193, 93-102.	4.4	42
25	Synthesis of Spongelike Functionalized MCM-41 Materials from Gels Containing Amino Acids. <i>Chemistry of Materials</i> , 2002, 14, 4641-4646.	6.7	41
26	Ferrocenyl Dendrimers Incorporated into Mesoporous Silica: A New Hybrid Redox-Active Materials. <i>Chemistry of Materials</i> , 2003, 15, 1073-1079.	6.7	38
27	Structural study by transmission and scanning electron microscopy of the time-dependent structural change in M41S mesoporous silica (MCM-41 to MCM-48, and MCM-50). <i>Journal of Materials Chemistry</i> , 2004, 14, 48-53.	6.7	38
28	Atomic Observations of Microporous Materials Highly Unstable under the Electron Beam: The Cases of Ti-Doped AlPO ₄ and Zn-MOF. <i>ChemCatChem</i> , 2015, 7, 3719-3724.	3.7	38
29	Fe-Al-Mn ternary oxide nanosorbent: Synthesis, characterization and phosphate sorption property. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1330-1340.	6.7	38
30	Organising disordered matter: strategies for ordering the network of mesoporous materials. <i>Comptes Rendus Chimie</i> , 2005, 8, 569-578.	0.5	36
31	An Approach Toward the Synthesis of Platelike Ordered Mesoporous Materials from Layered Zeolite Precursors. <i>Chemistry of Materials</i> , 2006, 18, 2283-2292.	6.7	35
32	Defluoridation performance of nano-hydroxyapatite/stilbite composite compared with bone char. <i>Separation and Purification Technology</i> , 2016, 157, 241-248.	7.9	34
33	Polyaniline supported CdS/CeO ₂ /Ag ₃ PO ₄ nanocomposite: An A-B-type tandem n-n heterojunctions with enhanced photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 406, 113005.	3.9	33
34	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. <i>ChemCatChem</i> , 2013, 5, 2595-2598.	3.7	31
35	Bottle-around-the-ship: A method to encapsulate enzymes in ordered mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 173-178.	4.4	30
36	High acid catalytic activity of aluminosilicate molecular sieves with MCM-41 structure synthesized from precursors of colloidal faujasite. <i>Chemical Communications</i> , 2003, , 150-151.	4.1	29

#	ARTICLE	IF	CITATIONS
37	Non-noble MNP@MOF materials: synthesis and applications in heterogeneous catalysis. Dalton Transactions, 2021, 50, 10340-10353.	3.3	29
38	Removal of chromium(VI) using nano-hydrotalcite/SiO ₂ composite. Journal of Environmental Chemical Engineering, 2015, 3, 1555-1561.	6.7	28
39	Layered Double Hydroxide and Its Calcined Product for Fluoride Removal from Groundwater of Ethiopian Rift Valley. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	28
40	Designing Functionalized Mesoporous Materials for Enzyme Immobilization: Locating Enzymes by Using Advanced TEM Techniques. ChemCatChem, 2013, 5, 903-909.	3.7	27
41	Zeolites are no longer a challenge: Atomic resolution data by Aberration-corrected STEM. Micron, 2015, 68, 146-151.	2.2	25
42	Synthesis of zeolite A using kaolin from Ethiopia and its application in detergents. New Journal of Chemistry, 2016, 40, 3440-3446.	2.8	24
43	Synthesis of zeolite A using raw kaolin from Ethiopia and its application in removal of Cr(III) from tannery wastewater. Journal of Chemical Technology and Biotechnology, 2018, 93, 146-154.	3.2	24
44	Aluminum hydroxide supported on zeolites for fluoride removal from drinking water. Journal of Chemical Technology and Biotechnology, 2017, 92, 605-613.	3.2	22
45	In-situ immobilization of enzymes in mesoporous silicas. Solid State Sciences, 2011, 13, 691-697.	3.2	21
46	Synthesis, characterization and analytical application of polyaniline tin(IV) molybdophosphate composite with nanocrystalline domains. Reactive and Functional Polymers, 2016, 98, 17-23.	4.1	21
47	Enzymatic synthesis of epoxy fatty acid starch ester in ionic liquid-organic solvent mixture from vernonia oil. Starch/Staerke, 2014, 66, 385-392.	2.1	19
48	Aberration-corrected STEM Imaging of both Pure and Silver-Supported Metal-Organic Framework MIL-100(Fe). ChemCatChem, 2017, 9, 3497-3502.	3.7	18
49	Spheres of Microporous Titanosilicate Umbite with Hierarchical Pore Systems. Advanced Functional Materials, 2008, 18, 1314-1320.	14.9	17
50	Synthesis, characterization and catalytic application of zeolite based heterogeneous catalyst of iron(III), nickel(II) and copper(II) salen complexes for oxidation of organic pollutants. Journal of Porous Materials, 2015, 22, 1363-1373.	2.6	17
51	Oxidation of 4-chloro-3-methylphenol using zeolite Y-encapsulated iron(III), nickel(II), and copper(II)-N,N'-disalicylidene-1, 2-phenylenediamine complexes. Chinese Journal of Catalysis, 2016, 37, 135-145.	14.0	17
52	Environmental uses of zeolites in Ethiopia. Catalysis Today, 2017, 285, 29-38.	4.4	15
53	SBA-15 with short channels for laccase immobilization. Microporous and Mesoporous Materials, 2020, 309, 110527.	4.4	15
54	Location of enzyme in lipase-SBA-12 hybrid biocatalyst. Journal of Molecular Catalysis B: Enzymatic, 2013, 90, 23-25.	1.8	14

#	ARTICLE	IF	CITATIONS
55	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 521-536.	1.2	14
56	Observation of Ag Nanoparticles in/on Ag@MIL-100(Fe) Prepared Through Different Procedures. <i>Frontiers in Chemistry</i> , 2019, 7, 686.	3.6	14
57	Controlling Particle Morphology and Pore Size in the Synthesis of Ordered Mesoporous Materials. <i>Molecules</i> , 2020, 25, 4909.	3.8	14
58	Controlled growth of hydroxyapatite on the surface of natural stilbite from Ethiopia: application in mitigation of fluorosis. <i>RSC Advances</i> , 2014, 4, 7998.	3.6	13
59	Transmission electron microscopy in formation and growth of ordered mesoporous materials. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 302-307.	7.4	12
60	Amino-modified periodic mesoporous biphenylene-silica. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 167-172.	4.4	12
61	Experimental and computational studies on zeolite-Y encapsulated iron(iii) and nickel(ii) complexes containing mixed-ligands of 2,2'-bipyridine and 1,10-phenanthroline. <i>RSC Advances</i> , 2015, 5, 88636-88645.	3.6	12
62	Stripping voltammetric determination of pyridine-2-aldoxime methochloride at the iron(iii) doped zeolite modified glassy carbon electrode. <i>Analyst</i> , The, 2012, 137, 5625.	3.5	11
63	Solvent free epoxidation of vernonia oil using Ti-SBA-15 with tailor made particle morphology and pore size. <i>Catalysis Today</i> , 2020, 345, 190-200.	4.4	11
64	Synthesis and Characterisation of Ordered Mesoporous Acid Catalysts for Synthesis of Biodegradable Surfactants. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1914-1926.	1.0	11
65	Pore-size control of Al-MCM-41 materials by spontaneous swelling. <i>Studies in Surface Science and Catalysis</i> , 1999, 125, 53-60.	1.5	10
66	Hybrid composites octyl-silica-methacrylate agglomerates as enzyme supports. <i>Applied Catalysis A: General</i> , 2013, 450, 204-210.	4.3	10
67	Kinetics and mechanisms of adsorption/desorption of the ionic liquid 1-butyl-3-methylimidazolium bromide into mordenite. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 705-710.	3.2	10
68	Controlled growth of nano-hydroxyapatite on stilbite: Defluoridation performance. <i>Microporous and Mesoporous Materials</i> , 2017, 254, 86-95.	4.4	10
69	Chiral periodic mesoporous copper(II) bis(oxazoline) phenylene-silica: A highly efficient and reusable asymmetric heterogeneous catalyst. <i>Journal of Catalysis</i> , 2014, 320, 63-69.	6.2	9
70	Nano-crystalline titanium(IV) tungstomolybdate cation exchanger: Synthesis, characterization and ion exchange properties. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1004-1014.	6.7	9
71	Transmission Electron Microscopy Study of the Porous Structure of Aluminas Synthesized by Non-Ionic Surfactant Templating Route. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1937-1948.	1.0	8
72	Location of laccase in ordered mesoporous materials. <i>APL Materials</i> , 2014, 2, .	5.1	8

#	ARTICLE	IF	CITATIONS
73	ICP-2: A New Hybrid Organo-Inorganic Ferrierite Precursor with Expanded Layers Stabilized by π - π Stacking Interactions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24114-24127.	3.1	8
74	Defluoridation Performance Comparison of Nano-hydroxalcite/Hydroxyapatite Composite with Calcined Hydroxalcite and Hydroxyapatite. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	7
75	Micron-Sized Single-Crystal-like CoAPO-5/Carbon Composites Leading to Hierarchical CoAPO-5 with Both Inter- and Intracrystalline Mesoporosity. <i>Crystal Growth and Design</i> , 2013, 13, 2476-2485.	3.0	6
76	Surfactant-induced hierarchically porous MOF-based catalysts prepared under sustainable conditions and their ability to remove Bisphenol A from aqueous solutions. <i>Catalysis Today</i> , 2021, , .	4.4	6
77	Chiral Copper(II) Bis(oxazoline) Complexes Directly Coordinated to Amine-Functionalized Phenylene/Biphenylene Periodic Mesoporous Organosilicas as Heterogeneous Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 413-421.	2.0	5
78	Microscopy of Nanoporous Crystals. <i>Springer Handbooks</i> , 2019, , 1391-1450.	0.6	5
79	Ti-PMO materials as selective catalysts for the epoxidation of cyclohexene and vernonia oil. <i>Catalysis Today</i> , 2022, 390-391, 246-257.	4.4	5
80	Effect of thermal treatment on the photocatalytic behavior of TiO ₂ supported on zeolites. <i>New Journal of Chemistry</i> , 2018, 42, 12001-12007.	2.8	4
81	Organising Disordered Matter: Strategies for Ordering the Network of Mesoporous Materials. <i>ChemInform</i> , 2005, 36, no.	0.0	3
82	Zeolite synthesis using 1-benzyl-1-methylpyrrolidinium in the presence of Na ⁺ as co-structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 273-279.	4.4	3
83	The effect of non-ionic surfactants on the sustainable synthesis of selected MOFs. <i>Catalysis Today</i> , 2022, 390-391, 316-325.	4.4	3
84	Zeolites and Mesoporous Crystals Under the Electron Microscope. , 2015, , 93-138.		2
85	Aluminum incorporation into plate-like ordered mesoporous materials obtained from layered zeolite precursors. <i>Studies in Surface Science and Catalysis</i> , 2007, , 177-180.	1.5	1
86	Composite materials based on zeolite stilbite from Faroe Islands for the removal of fluoride from drinking water. <i>American Mineralogist</i> , 2019, 104, 1556-1564.	1.9	1
87	Lipase immobilization in ordered mesoporous materials. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 897-900.	1.5	0
88	Recent Advances on Imaging Porous Frameworks by Electron Microscopy Methods. <i>Microscopy and Microanalysis</i> , 2017, 23, 1798-1799.	0.4	0