

# Isabel Diaz

## List of Publications by Year in descending order

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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	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
2	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
3	Polyaniline supported CdS/CeO <sub>2</sub> /Ag <sub>3</sub> PO <sub>4</sub> 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
4	Non-noble MNP@MOF materials: synthesis and applications in heterogeneous catalysis. <i>Dalton Transactions</i> , 2021, 50, 10340-10353.	3.3	29
5	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
6	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
7	SBA-15 with short channels for laccase immobilization. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110527.	4.4	15
8	Controlling Particle Morphology and Pore Size in the Synthesis of Ordered Mesoporous Materials. <i>Molecules</i> , 2020, 25, 4909.	3.8	14
9	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
10	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
11	Microscopy of Nanoporous Crystals. <i>Springer Handbooks</i> , 2019, , 1391-1450.	0.6	5
12	Synthesis of zeolite A using raw kaolin from Ethiopia and its application in removal of Cr(III) from tannery wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 146-154.	3.2	24
13	Effect of thermal treatment on the photocatalytic behavior of TiO <sub>2</sub> supported on zeolites. <i>New Journal of Chemistry</i> , 2018, 42, 12001-12007.	2.8	4
14	Aluminum hydroxide supported on zeolites for fluoride removal from drinking water. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 605-613.	3.2	22
15	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
16	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
17	Environmental uses of zeolites in Ethiopia. <i>Catalysis Today</i> , 2017, 285, 29-38.	4.4	15
18	Corrected STEM Imaging of both Pure and Silver-Supported Metal-Organic Framework MIL-100(Fe). <i>ChemCatChem</i> , 2017, 9, 3497-3502.	3.7	18

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19	Controlled growth of nano-hydroxyapatite on stilbite: Defluoridation performance. <i>Microporous and Mesoporous Materials</i> , 2017, 254, 86-95.	4.4	10
20	ICP-2: A New Hybrid Organo-Inorganic Ferrierite Precursor with Expanded Layers Stabilized by $\pi$ - $\pi$ Stacking Interactions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24114-24127.	3.1	8
21	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
22	Recent Advances on Imaging Porous Frameworks by Electron Microscopy Methods. <i>Microscopy and Microanalysis</i> , 2017, 23, 1798-1799.	0.4	0
23	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
24	Enhanced photocatalytic activity of supported TiO <sub>2</sub> by selective surface modification of zeolite Y. <i>Applied Surface Science</i> , 2016, 378, 473-478.	6.1	54
25	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
26	Layered Double Hydroxide and Its Calcined Product for Fluoride Removal from Groundwater of Ethiopian Rift Valley. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	28
27	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
28	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
29	Oxidation of 4-chloro-3-methylphenol using zeolite Y-encapsulated iron(III), nickel(II), and copper(II)-N,N'-disalicylidene-1, 2-phenylenediamine complexes. <i>Chinese Journal of Catalysis</i> , 2016, 37, 135-145.	14.0	17
30	Synthesis of zeolite A using kaolin from Ethiopia and its application in detergents. <i>New Journal of Chemistry</i> , 2016, 40, 3440-3446.	2.8	24
31	Defluoridation Performance Comparison of Nano-hydroxycalcite/Hydroxyapatite Composite with Calcined Hydroxycalcite and Hydroxyapatite. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	7
32	Enhanced photocatalytic activity of TiO <sub>2</sub> 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
33	Defluoridation performance of nano-hydroxyapatite/stilbite composite compared with bone char. <i>Separation and Purification Technology</i> , 2016, 157, 241-248.	7.9	34
34	Synthesis, characterization and analytical application of polyaniline tin(IV) molybdophosphate composite with nanocrystalline domains. <i>Reactive and Functional Polymers</i> , 2016, 98, 17-23.	4.1	21
35	Atomic Observations of Microporous Materials Highly Unstable under the Electron Beam: The Cases of Ti-Doped AlPO <sub>4</sub> and Zn-MOF. <i>ChemCatChem</i> , 2015, 7, 3719-3724.	3.7	38
36	Synthesis, characterization and photocatalytic activity of zeolite supported ZnO/Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1586-1591.	6.7	47

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37	Synthesis of zeolite A from Ethiopian kaolin. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 29-36.	4.4	89
38	Removal of chromium(VI) using nano-hydrotalcite/SiO <sub>2</sub> composite. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1555-1561.	6.7	28
39	Amino-modified periodic mesoporous biphenylene-silica. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 167-172.	4.4	12
40	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
41	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. <i>Journal of Porous Materials</i> , 2015, 22, 1363-1373.	2.6	17
42	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
43	Zeolites are no longer a challenge: Atomic resolution data by Aberration-corrected STEM. <i>Micron</i> , 2015, 68, 146-151.	2.2	25
44	Zeolites and Mesoporous Crystals Under the Electron Microscope. , 2015, , 93-138.		2
45	Location of laccase in ordered mesoporous materials. <i>APL Materials</i> , 2014, 2, .	5.1	8
46	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
47	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 521-536.	1.2	14
48	Ion-exchange in natural zeolite stilbite and significance in defluoridation ability. <i>Microporous and Mesoporous Materials</i> , 2014, 193, 93-102.	4.4	42
49	Enzymatic synthesis of epoxy fatty acid starch ester in ionic liquid-organic solvent mixture from vernonia oil. <i>Starch/Staerke</i> , 2014, 66, 385-392.	2.1	19
50	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
51	Room temperature synthesis of metal organic framework MOF-2. <i>Journal of Porous Materials</i> , 2014, 21, 769-773.	2.6	63
52	Nanoscaled M-MOF-74 Materials Prepared at Room Temperature. <i>Crystal Growth and Design</i> , 2014, 14, 2479-2487.	3.0	155
53	Mesoporous Silicas with Tunable Morphology for the Immobilization of Laccase. <i>Molecules</i> , 2014, 19, 7057-7071.	3.8	47
54	Location of enzyme in lipase-SBA-12 hybrid biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 23-25.	1.8	14

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55	Hybrid composites octyl-silica-methacrylate agglomerates as enzyme supports. <i>Applied Catalysis A: General</i> , 2013, 450, 204-210.	4.3	10
56	Natural zeolites from Ethiopia for elimination of fluoride from drinking water. <i>Separation and Purification Technology</i> , 2013, 120, 224-229.	7.9	80
57	Designing Functionalized Mesoporous Materials for Enzyme Immobilization: Locating Enzymes by Using Advanced TEM Techniques. <i>ChemCatChem</i> , 2013, 5, 903-909.	3.7	27
58	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. <i>ChemCatChem</i> , 2013, 5, 2595-2598.	3.7	31
59	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
60	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
61	Stripping voltammetric determination of pyridine-2-aldoxime methochloride at the iron(III) doped zeolite modified glassy carbon electrode. <i>Analyst</i> , 2012, 137, 5625.	3.5	11
62	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
63	In-situ immobilization of enzymes in mesoporous silicas. <i>Solid State Sciences</i> , 2011, 13, 691-697.	3.2	21
64	Atomic Resolution Analysis of Silver Ion-Exchanged Zeolite A. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11230-11233.	13.8	83
65	TEM studies of zeolites and ordered mesoporous materials. <i>Micron</i> , 2011, 42, 512-527.	2.2	51
66	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
67	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
68	Zeolite synthesis using 1-benzyl-1-methylpyrrolidinium in the presence of Na <sup>+</sup> as co-structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 273-279.	4.4	3
69	Spheres of Microporous Titanosilicate Umbite with Hierarchical Pore Systems. <i>Advanced Functional Materials</i> , 2008, 18, 1314-1320.	14.9	17
70	Mesoporous titanosilicates synthesized from TS-1 precursors with enhanced catalytic activity in the $\alpha$ -pinene selective oxidation. <i>Applied Catalysis A: General</i> , 2008, 343, 77-86.	4.3	43
71	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
72	Lipase immobilization in ordered mesoporous materials. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 897-900.	1.5	0

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73	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
74	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
75	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
76	Organising disordered matter: strategies for ordering the network of mesoporous materials. <i>Comptes Rendus Chimie</i> , 2005, 8, 569-578.	0.5	36
77	Organising Disordered Matter: Strategies for Ordering the Network of Mesoporous Materials. <i>ChemInform</i> , 2005, 36, no.	0.0	3
78	Surface Structure of Zeolite (MFI) Crystals. <i>Chemistry of Materials</i> , 2004, 16, 5226-5232.	6.7	95
79	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
80	Zeolite (MFI) Crystal Morphology Control Using Organic Structure-Directing Agents. <i>Chemistry of Materials</i> , 2004, 16, 5697-5705.	6.7	164
81	Ferrocenyl Dendrimers Incorporated into Mesoporous Silica: A New Hybrid Redox-Active Materials. <i>Chemistry of Materials</i> , 2003, 15, 1073-1079.	6.7	38
82	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
83	Merocyanine 540 as an optical probe of transmembrane electrical activity in the heart. <i>Science</i> , 2003, 191, 485-487.	12.6	987
84	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
85	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
86	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
87	Synthesis of Spongelike Functionalized MCM-41 Materials from Gels Containing Amino Acids. <i>Chemistry of Materials</i> , 2002, 14, 4641-4646.	6.7	41
88	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