

Javier PÃ©rez-Carvajal

List of Publications by Year in descending order

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27
papers

1,323
citations

430874

18
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

2100
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembly of polyhedral metal-organic framework particles into three-dimensional ordered superstructures. <i>Nature Chemistry</i> , 2018, 10, 78-84.	13.6	298
2	Composite Salt in Porous Metal-Organic Frameworks for Adsorption Heat Transformation. <i>Advanced Functional Materials</i> , 2017, 27, 1606424.	14.9	95
3	A MOF@COF Composite with Enhanced Uptake through Interfacial Pore Generation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9512-9516.	13.8	79
4	Switchable Surface Hydrophobicity-Hydrophilicity of a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16049-16053.	13.8	76
5	Macroscopic Ultralight Aerogel Monoliths of Imine-based Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13969-13977.	13.8	73
6	A Self-Folding Polymer Film Based on Swelling Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15420-15424.	13.8	71
7	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18635.	2.8	69
8	Enzyme-Powered Porous Micromotors Built from a Hierarchical Micro- and Mesoporous UiO-Type Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 20962-20967.	13.7	67
9	A CO ₂ optical sensor based on self-assembled metal-organic framework nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13171-13177.	10.3	62
10	Aqueous production of spherical Zr-MOF beads via continuous-flow spray-drying. <i>Green Chemistry</i> , 2018, 20, 873-878.	9.0	59
11	Confining Functional Nanoparticles into Colloidal Imine-Based COF Spheres by a Sequential Encapsulation-Crystallization Method. <i>Chemistry - A European Journal</i> , 2017, 23, 8623-8627.	3.3	58
12	Protein-Templated Biomimetic Silica Nanoparticles. <i>Langmuir</i> , 2015, 31, 3687-3695.	3.5	45
13	Metal Acetylacetonates as a Source of Metals for Aqueous Synthesis of Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14554-14560.	6.7	41
14	The Imine-Based COF 1 as an Efficient Cooling Adsorbent That Can Be Regenerated by Heat or Light. <i>Advanced Energy Materials</i> , 2019, 9, 1901535.	19.5	36
15	Layered titanosilicates JDF-L1 and AM-4 for biocide applications. <i>Applied Clay Science</i> , 2012, 56, 30-35.	5.2	31
16	TiO ₂ -clay based nanoarchitectures for enhanced photocatalytic hydrogen production. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 120-127.	4.4	30
17	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , 2014, 6, 151-158.	0.7	27
18	Nanoarchitectures Based on Layered Titanosilicates Supported on Glass Fibers: Application to Hydrogen Storage. <i>Langmuir</i> , 2013, 29, 7449-7455.	3.5	22

#	ARTICLE	IF	CITATIONS
19	A First Cyclodextrin-Transition Metal Coordination Polymer. <i>Crystal Growth and Design</i> , 2016, 16, 5598-5602.	3.0	20
20	Single-crystal and humidity-controlled powder diffraction study of the breathing effect in a metal-organic framework upon water adsorption/desorption. <i>Chemical Communications</i> , 2016, 52, 7229-7232.	4.1	15
21	Titanosilicate-sepiolite hybrid nanoarchitectures for hydrogen technologies applications. <i>Journal of Solid State Chemistry</i> , 2019, 270, 287-294.	2.9	14
22	Switching acidic and basic catalysis through supramolecular functionalization in a porous 3D covalent imine-based material. <i>Catalysis Science and Technology</i> , 2019, 9, 6007-6014.	4.1	10
23	Two-step synthesis of heterometallic coordination polymers using a polyazamacrocyclic linker. <i>CrystEngComm</i> , 2016, 18, 4196-4204.	2.6	9
24	In situ assembling of layered double hydroxide to magadiite layered silicate with enhanced photocatalytic and recycling performance. <i>Applied Surface Science</i> , 2021, 569, 151007.	6.1	9
25	Macroscopic Ultralight Aerogel Monoliths of Imine-based Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 14088-14096.	2.0	5
26	Interdiffusive Surfactant Procedure for the Preparation of Nanoarchitected Porous Films: Application to the Growth of Titania Thin Films on Silicon Substrates. <i>Langmuir</i> , 2019, 35, 7169-7174.	3.5	1
27	Thermal kinetics on adsorption heat transformation based on activated biocarbon and ethanol as working pairs. <i>Materials Letters</i> , 2022, 311, 131622.	2.6	1