

Urbano Diaz

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87
papers

3,115
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28
h-index

54
g-index

97
ext. papers

3,488
ext. citations

7.7
avg, IF

5.64
L-index

#	Paper	IF	Citations
87	Generation of subnanometric platinum with high stability during transformation of a 2D zeolite into β D. <i>Nature Materials</i> , 2017 , 16, 132-138	27	376
86	Catalysis using multifunctional organosiliceous hybrid materials. <i>Chemical Society Reviews</i> , 2013 , 42, 4083-97	58.5	206
85	Ordered covalent organic frameworks, COFs and PAFs. From preparation to application. <i>Coordination Chemistry Reviews</i> , 2016 , 311, 85-124	23.2	195
84	New Aluminosilicate and Titanosilicate Delaminated Materials Active for Acid Catalysis, and Oxidation Reactions Using H ₂ O ₂ . <i>Journal of the American Chemical Society</i> , 2000 , 122, 2804-2809	16.4	175
83	Multifunctional hybrid organic-inorganic catalytic materials with a hierarchical system of well-defined micro- and mesopores. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15011-21	16.4	163
82	Characterization and Catalytic Activity of MCM-22 and MCM-56 Compared with ITQ-2. <i>Journal of Catalysis</i> , 2000 , 191, 218-224	7.3	148
81	AlITQ-6 and TiITQ-6: Synthesis, Characterization, and Catalytic Activity We thank the Spanish CICYT for financial support (project MAT97-1016-C02-01 and project MAT97-1207-C03-01). U.D. and M.E.D. thank the M.E.C. and M.E.A., respectively, for funding their doctoral fellowships. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 1499-1501	16.4	141
80	Layered zeolitic materials: an approach to designing versatile functional solids. <i>Dalton Transactions</i> , 2014 , 43, 10292-316	4.3	132
79	ITQ-18 a new delaminated stable zeolite. <i>Chemical Communications</i> , 2001 , 2642-2643	5.8	88
78	Ti/ITQ-2, a new material highly active and selective for the epoxidation of olefins with organic hydroperoxides. <i>Chemical Communications</i> , 1999 , 779-780	5.8	80
77	A homochiral vanadium-salen based cadmium bpdc MOF with permanent porosity as an asymmetric catalyst in solvent-free cyanosilylation. <i>Chemical Communications</i> , 2016 , 52, 1401-4	5.8	72
76	Organic-inorganic nanospheres with responsive molecular gates for drug storage and release. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6247-50	16.4	62
75	Designing bifunctional acid/base mesoporous hybrid catalysts for cascade reactions. <i>Catalysis Science and Technology</i> , 2013 , 3, 2677	5.5	52
74	Pure silica nanoparticles for liposome/lipase system encapsulation: Application in biodiesel production. <i>Catalysis Today</i> , 2013 , 204, 148-155	5.3	51
73	Synthesis and characterization of hybrid organozeolites with high organic content. <i>Microporous and Mesoporous Materials</i> , 2006 , 93, 180-189	5.3	49
72	Cu and Fe modified derivatives of 2D MWW-type zeolites (MCM-22, ITQ-2 and MCM-36) as new catalysts for DeNO _x process. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 531-539	21.8	47
71	Novel Layered Organic/Inorganic Hybrid Materials with Bridged Silsesquioxanes as Pillars. <i>Chemistry of Materials</i> , 2007 , 19, 3686-3693	9.6	46

70	Catalytic performance of commercial Cu-ZSM-5 zeolite modified by desilication in NH ₃ -SCR and NH ₃ -SCO processes. <i>Microporous and Mesoporous Materials</i> , 2017 , 246, 193-206	5.3	41
69	Organic-inorganic supramolecular solid catalyst boosts organic reactions in water. <i>Nature Communications</i> , 2016 , 7, 10835	17.4	41
68	Ti-ferrierite and TiITQ-6: synthesis and catalytic activity for the epoxidation of olefins with H ₂ O ₂ . <i>Chemical Communications</i> , 2000 , 137-138	5.8	41
67	On the mechanism of zeolite growing: Crystallization by seeding with delayered zeolites. <i>Microporous and Mesoporous Materials</i> , 2006 , 90, 73-80	5.3	39
66	Organic-Inorganic Hybrid Materials: Multi-Functional Solids for Multi-Step Reaction Processes. <i>Chemistry - A European Journal</i> , 2018 , 24, 3944-3958	4.8	39
65	Changing the hydroisomerization to hydrocracking ratio of long chain alkanes by varying the level of delamination in zeolitic (ITQ-6) materials. <i>Catalysis Today</i> , 2009 , 147, 179-185	5.3	35
64	Hybrid organic-inorganic catalytic porous materials synthesized at neutral pH in absence of structural directing agents. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5970		33
63	In situ preparation of a multifunctional chiral hybrid organic-inorganic catalyst for asymmetric multicomponent reactions. <i>Chemical Science</i> , 2013 , 4, 2006	9.4	31
62	Siliceous ITQ-6: A new support for vanadia in the oxidative dehydrogenation of propane. <i>Microporous and Mesoporous Materials</i> , 2006 , 94, 339-347	5.3	30
61	Synthesis of Organic-Inorganic Hybrid Solids with Copper Complex Framework and Their Catalytic Activity for the S-Arylation and the Azide-Alkyne Cycloaddition Reactions. <i>ACS Catalysis</i> , 2011 , 1, 147-158 ^{13.1}		29
60	Efficient cycloaddition of CO ₂ to epoxides using novel heterogeneous organocatalysts based on tetramethylguanidine-functionalized porous polyphenylenes. <i>Journal of CO₂ Utilization</i> , 2018 , 25, 170-179 ^{7.6}		28
59	Synthesis and catalytic properties of hybrid mesoporous materials assembled from polyhedral and bridged silsesquioxane monomers. <i>Chemistry - A European Journal</i> , 2012 , 18, 8659-72	4.8	28
58	Different Routes for Preparing Mesoporous Organosilicas Containing the Tröger's Base and Their Textural and Catalytic Implications. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7573-7585	3.8	28
57	SPEEK-based proton exchange membranes modified with MOF-encapsulated ionic liquid. <i>Materials Chemistry and Physics</i> , 2019 , 236, 121792	4.4	26
56	Mesoporous Y zeolite through ionic liquid based surfactant templating. <i>Microporous and Mesoporous Materials</i> , 2015 , 217, 81-86	5.3	26
55	Controlling the Emission of Blue-Emitting Complexes by Encapsulation within Zeolite Cavities. <i>Chemistry of Materials</i> , 2004 , 16, 1170-1176	9.6	24
54	Ethanol-silica hybrid material with ordered hexagonal mesoporous structure. <i>Microporous and Mesoporous Materials</i> , 2006 , 87, 185-191	5.3	23
53	Layered Materials with Catalytic Applications: Pillared and Delaminated Zeolites from MWW Precursors. <i>ISRN Chemical Engineering</i> , 2012 , 2012, 1-35		22

52	Functional Acid and Base Hybrid Catalysts Organized by Associated (Organo)aluminosilicate Layers for C–C Bond Forming Reactions and Tandem Processes. <i>Chemistry of Materials</i> , 2017 , 29, 1599-1612	9.6	20
51	One-pot two-step process for direct propylene oxide production catalyzed by bi-functional Pd(Au)@TS-1 materials. <i>Applied Catalysis A: General</i> , 2016 , 523, 73-84	5.1	20
50	Hierarchically structured ZSM-5 obtained by optimized mesotemplate-free method as active catalyst for methanol to DME conversion. <i>Catalysis Science and Technology</i> , 2016 , 6, 4849-4862	5.5	20
49	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14170	13	20
48	The influence of swelling agents molecular dimensions on lamellar morphology of MWW-type zeolites active for fructose conversion. <i>Microporous and Mesoporous Materials</i> , 2017 , 254, 17-27	5.3	19
47	Hybrid organic–inorganic structured materials as single-site heterogeneous catalysts. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 1927-1954	2.4	18
46	Synthesis of 2D and 3D MOFs with tuneable Lewis acidity from preformed 1D hybrid sub-domains. <i>Chemical Science</i> , 2019 , 10, 2053-2066	9.4	17
45	Synthesis and characterization of new ruthenium N-heterocyclic carbene Hoveyda II-type complexes. Study of reactivity in ring closing metathesis reactions. <i>Dalton Transactions</i> , 2012 , 41, 10913-8	4.3	17
44	Hybrid organic-inorganic catalytic mesoporous materials with proton sponges as building blocks. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11702-9	3.6	17
43	Biodiesel production by immobilized lipase on zeolites and related materials. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 1011-1016	1.8	17
42	Propylene epoxidation with in situ generated H ₂ O ₂ in supercritical conditions. <i>Catalysis Today</i> , 2014 , 227, 87-95	5.3	16
41	Organic–inorganic Nanospheres with Responsive Molecular Gates for Drug Storage and Release. <i>Angewandte Chemie</i> , 2009 , 121, 6365-6368	3.6	15
40	One-pot synthesis of hierarchical porous layered hybrid materials based on aluminosilicate sheets and organic functional pillars. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19360-19375	13	14
39	Recyclable swelling solutions for friendly preparation of pillared MWW-type zeolites. <i>Microporous and Mesoporous Materials</i> , 2017 , 253, 91-95	5.3	13
38	Influencing the activity and selectivity of alkylaromatic catalytic transformations by varying the degree of delamination in MWW zeolites. <i>Catalysis Science and Technology</i> , 2016 , 6, 3166-3181	5.5	13
37	Single-Layered Hybrid Materials Based on 1D Associated Metalorganic Nanoribbons for Controlled Release of Pheromones. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11026-30	16.4	12
36	Optimized hybrid nanospheres immobilizing <i>Rhizomucor miehei</i> lipase for chiral biotransformation. <i>Process Biochemistry</i> , 2016 , 51, 240-248	4.8	12
35	Ferrierite and Its Delaminated and Silica-Intercalated Forms Modified with Copper as Effective Catalysts for NH ₃ -SCR Process. <i>Catalysts</i> , 2020 , 10, 734	4	12

34	Influence of Zeolite Protective Overlayer on the Performances of Pd Thin Film Membrane on Tubular Asymmetric Alumina Supports. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4948-4959	2.9	12
33	Mesoporous Beta zeolite functionalisation with FexCry oligocations; catalytic activity in the NH3SCO process. <i>Microporous and Mesoporous Materials</i> , 2019 , 278, 1-13	5.3	12
32	Porous Silica-Based Organic-Inorganic Hybrid Catalysts: A Review. <i>Catalysts</i> , 2021 , 11, 79	4	12
31	Catalytic oxidation of organic sulfides by H2O2 in the presence of titanosilicate zeolites. <i>Microporous and Mesoporous Materials</i> , 2020 , 302, 110219	5.3	11
30	MCM-22, MCM-36, and ITQ-2 Zeolites with Different Si/Al Molar Ratios as Effective Catalysts of Methanol and Ethanol Dehydration. <i>Materials</i> , 2020 , 13,	3.5	10
29	Highly active hybrid mesoporous silica-supported base organocatalysts for CC bond formation. <i>Catalysis Today</i> , 2020 , 345, 227-236	5.3	10
28	Strong Organic Bases as Building Blocks of Mesoporous Hybrid Catalysts for C-C Forming Bond Reactions. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 5175-5185	2.3	9
27	Exploring the Photodynamics of a New 2D-MOF Composite: Nile Red@Al-ITQ-HB. <i>ACS Omega</i> , 2018 , 3, 1600-1608	3.9	8
26	Dandelion-Like Microspherical MCM-22 Zeolite Using BP 2000 as a Hard Template. <i>ACS Omega</i> , 2018 , 3, 6217-6223	3.9	8
25	Unraveling Competitive Electron and Energy-Transfer Events at the Interfaces of a 2D MOF and Nile Red Composites: Effect of the Length and Structure of the Linker. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32885-32894	9.5	8
24	Growth-modulating agents for the synthesis of Al-MOF-type materials based on assembled 1D structural subdomains. <i>Dalton Transactions</i> , 2018 , 47, 5492-5502	4.3	7
23	Selective ammonia oxidation over ZSM-5 zeolite: Impact of catalyst support porosity and type of deposited iron species. <i>Catalysis Today</i> , 2020 , 348, 223-229	5.3	7
22	Chiral hybrid materials based on pyrrolidine building units to perform asymmetric Michael additions with high stereocontrol. <i>Catalysis Science and Technology</i> , 2018 , 8, 5835-5847	5.5	7
21	Layered hybrid materials with nanotechnological applications: use of disilane precursors as pillaring agents. <i>Studies in Surface Science and Catalysis</i> , 2008 , 337-340	1.8	5
20	How Does the Surface of Al-ITQ-HB 2D-MOF Condition the Intermolecular Interactions of an Adsorbed Organic Molecule?. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20159-20169	9.5	5
19	Ferrierite and Its Delaminated Forms Modified with Copper as Effective Catalysts for NH-SCO Process. <i>Materials</i> , 2020 , 13,	3.5	4
18	Structural study of functional hierarchical porous carbon synthesized from metal-organic framework template. <i>Materials Today Chemistry</i> , 2019 , 14, 100188	6.2	3
17	Si attachment points during sol-gel synthesis of organosilicas from 2,8-bis-silylated Tröger's base as building block precursor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8524		3

16	Open-Framework Chalcogenide Materials - from isolated clusters to highly ordered structures - and their photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022 , 453, 214243	23.2	3
15	Influence of iron aggregation on the catalytic performance of desilicated MFI in the DeNOx process. <i>Microporous and Mesoporous Materials</i> , 2020 , 304, 109114	5.3	3
14	Titanium-silicon ferrierites and their delaminated forms modified with copper as effective catalysts for low-temperature NH-SCR.. <i>RSC Advances</i> , 2021 , 11, 10847-10859	3.7	3
13	A Lamellar MWW Zeolite With Silicon and Niobium Oxide Pillars: A Catalyst for the Oxidation of Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , 2020 , 26, 10459-10470	4.8	2
12	Single-Layered Hybrid Materials Based on 1D Associated Metalorganic Nanoribbons for Controlled Release of Pheromones. <i>Angewandte Chemie</i> , 2016 , 128, 11192-11196	3.6	2
11	Deciphering the photobehaviour of ensemble and single crystals of Zr-based ITQ MOF composites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112887	4.7	2
10	Phenyl Extended Naphthalene-Based Covalent Triazine Frameworks as Versatile Metal-Free Heterogeneous Photocatalysts. <i>Solar Rrl</i> , 2022 , 6, 2100848	7.1	2
9	MOFs based on 1D structural sub-domains with Brønsted acid and redox active sites as effective bi-functional catalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 3572-3585	5.5	1
8	Frontispiece: Organic-Inorganic Hybrid Materials: Multi-Functional Solids for Multi-Step Reaction Processes. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
7	The influence of ethanol-assisted washes to obtain swollen and pillared MWW-type zeolite with high degree ordering of lamellar structure. <i>Microporous and Mesoporous Materials</i> , 2019 , 275, 26-30	5.3	1
6	Expandable Layered Hybrid Materials Based on Individual 1D Metalorganic Nanoribbons. <i>Materials</i> , 2019 , 12,	3.5	1
5	Acid properties of organosiliceous hybrid materials based on pendant (fluoro)aryl-sulfonic groups through a spectroscopic study with probe molecules. <i>Catalysis Science and Technology</i> , 2019 , 9, 6308-6317	5.5	1
4	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1
3	Modification of MCM-22 Zeolite and Its Derivatives with Iron for the Application in N2O Decomposition. <i>Catalysts</i> , 2020 , 10, 1139	4	0
2	Influence of the Framework Topology on the Reactivity of Chiral Pyrrolidine Units Inserted in Different Porous Organosilicas. <i>Catalysts</i> , 2019 , 9, 654	4	0
1	Structure and reactive properties of Nb-impregnated two-dimensional pillared MWW zeolites for total oxidation of volatile organic compounds. <i>Microporous and Mesoporous Materials</i> , 2021 , 327, 111425	5.3	0