Enrique V Ramos-Fernandez

List of Publications by Year
in descending order

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67
papers

5,071
citations

126708
33
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102304
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g-index

69
all docs

69
docs citations

69
times ranked

7453
citing authors

#	Article	IF	Citations
1	Metalâ€“organic and covalent organic frameworks as single-site catalysts. Chemical Society Reviews, 2017, 46, 3134-3184.	18.7	861
2	Synthesis and Characterization of an Amino Functionalized MIL-101(Al): Separation and Catalytic Properties. Chemistry of Materials, 2011, 23, 2565-2572.	3.2	479
3	Co@NH₂-MIL-125(Ti): cobaloxime-derived metalâ€“organic framework-based composite for light-driven H₂ production. Energy and Environmental Science, 2015, 8, 364-375.	15.6	362
4	Building MOF bottles around phosphotungstic acid ships: One-pot synthesis of bi-functional polyoxometalate-MIL-101 catalysts. Journal of Catalysis, 2010, 269, 229-241.	3.1	311
5	Sulfation of metalâ€“organic frameworks: Opportunities for acid catalysis and proton conductivity. Journal of Catalysis, 2011, 281, 177-187.	3.1	269
6	Tuning the catalytic performance of metalâ€“organic frameworks in fine chemistry by active site engineering. Journal of Materials Chemistry, 2012, 22, 10313.	6.7	176
7	Highly dispersed platinum in metal organic framework NH2-MIL-101(Al) containing phosphotungstic acid â€“ Characterization and catalytic performance. Journal of Catalysis, 2012, 289, 42-52.	3.1	147
8	Towards acid MOFs â€“ catalytic performance of sulfonic acid functionalized architectures. Catalysis Science and Technology, 2013, 3, 2311.	2.1	141
9	MOFs meet monoliths: Hierarchical structuring metal organic framework catalysts. Applied Catalysis A: General, 2011, 391, 261-267.	2.2	126
10	Surface modification of natural halloysite clay nanotubes with aminosilanes. Application as catalyst supports in the atom transfer radical polymerization of methyl methacrylate. Applied Catalysis A: General, 2011, 406, 22-33.	2.2	108
11	Gate-opening effect in ZIF-8: the first experimental proof using inelastic neutron scattering. Chemical Communications, 2016, 52, 3639-3642.	2.2	106
12	Paving the way for methane hydrate formation on metalâ€“organic frameworks (MOFs). Chemical Science, 2016, 7, 3658-3666.	3.7	103
13	Interplay of Metal Node and Amine Functionality in NH₂-MIL-53: Modulating Breathing Behavior through Intra-framework Interactions. Langmuir, 2012, 28, 12916-12922.	1.6	98
14	Use of nanotubes of natural halloysite as catalyst support in the atom transfer radical polymerization of methyl methacrylate. Microporous and Mesoporous Materials, 2009, 120, 132-140.	2.2	95
15	From biodiesel and bioethanol to liquid hydrocarbonfuels: new hydrotreating and advanced microbial technologies. Energy and Environmental Science, 2012, 5, 5638-5652.	15.6	88
16	Influence of the Amide Groups in the CO₂/N₂ Selectivity of a Series of Isoreticular, Interpenetrated Metalâ€“Organic Frameworks. Crystal Growth and Design, 2016, 16, 6016-6023.	1.4	73
17	Enhancing the catalytic performance of Pt/ZnO in the selective hydrogenation of cinnamaldehyde by Cr addition to the support. Journal of Catalysis, 2008, 258, 52-60.	3.1	67
18	Preparation and characterization of CeO2 highly dispersed on activated carbon. Materials Research Bulletin, 2008, 43, 1850-1857.	2.7	66

#	ARTICLE	IF	CITATIONS
19	Towards efficient polyoxometalate encapsulation in MIL-100(Cr): influence of synthesis conditions. New Journal of Chemistry, 2012, 36, 977.	1.4	63
20	Highly efficient nickel-niobia composite catalysts for hydrogenation of CO2 to methane. Chemical Engineering Science, 2019, 194, 2-9.	1.9	59
21	Methane hydrates: Nucleation in microporous materials. Chemical Engineering Journal, 2019, 360, 569-576.	6.6	59
22	Fine-tuning of the confined space in microporous metalâ€“organic frameworks for efficient mercury removal. Journal of Materials Chemistry A, 2017, 5, 20120-20125.	5.2	56
23	CuOx/CeO2 catalyst derived from metal organic framework for reverse water-gas shift reaction. Applied Catalysis A: General, 2018, 562, 28-36.	2.2	55
24	Confined Pt₁¹⁺ Water Clusters in a MOF Catalyze the Lowâ€Temperature Waterâ€“Gas Shift Reaction with both CO₂ Oxygen Atoms Coming from Water. Angewandte Chemie - International Edition, 2018, 57, 17094-17099.	7.2	54
25	Chloromethylation as a functionalisation pathway for metalâ€“organic frameworks. CrystEngComm, 2012, 14, 4109.	1.3	47
26	Effect of the CeO2 synthesis method on the behaviour of Pt/CeO2 catalysis for the water-gas shift reaction. International Journal of Hydrogen Energy, 2019, 44, 21837-21846.	3.8	47
27	A water-based room temperature synthesis of ZIF-93 for CO₂ adsorption. Journal of Materials Chemistry A, 2018, 6, 5598-5602.	5.2	46
28	Influence of the synthesis route on the catalytic oxidation of 1,2-dichloroethane over CeO2/H-ZSM5 catalysts. Applied Catalysis A: General, 2013, 456, 96-104.	2.2	45
29	Highly dispersed ceria on activated carbon for the catalyzed ozonation of organic pollutants. Applied Catalysis B: Environmental, 2012, 113-114, 308-317.	10.8	44
30	Titania-catalysed oxidative dehydrogenation of ethyl lactate: effective yet selective free-radical oxidation. Green Chemistry, 2014, 16, 3358-3363.	4.6	41
31	Effect of cold Ar plasma treatment on the catalytic performance of Pt/CeO2 in water-gas shift reaction (WGS). Applied Catalysis B: Environmental, 2018, 225, 121-127.	10.8	39
32	Tuning the selectivity of light hydrocarbons in natural gas in a family of isoreticular MOFs. Journal of Materials Chemistry A, 2017, 5, 11032-11039.	5.2	36
33	Synthesis, characterization and testing of a new V2O5/Al2O3â€“MgO catalyst for butane dehydrogenation and limonene oxidation. Dalton Transactions, 2013, 42, 5546.	1.6	33
34	Highly dispersed Pt+ on Ti Ce(1âˆ’)O2 as an active phase in preferential oxidation of CO. Applied Catalysis B: Environmental, 2016, 180, 169-178.	10.8	32
35	Effect of the support, Al2O3 or SiO2, on the catalytic behaviour of Crâ€“ZnO promoted Pt catalysts in the selective hydrogenation of cinnamaldehyde. Applied Catalysis A: General, 2011, 402, 50-58.	2.2	31
36	Understanding the oxidative dehydrogenation of ethyl lactate to ethyl pyruvate over vanadia/titania. Catalysis Science and Technology, 2018, 8, 3737-3747.	2.1	31

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37	Pt/Ta2O5â€“ZrO2 catalysts for vapour phase selective hydrogenation of crotonaldehyde. Applied Catalysis A: General, 2008, 349, 165-169.	2.2	30
38	Selective Hydrogenation of Cinnamaldehyde over (111) Preferentially Oriented Pt Particles Supported on Expanded Graphite. Catalysis Letters, 2009, 133, 267-272.	1.4	30
39	Superior performance of gold supported on doped CeO 2 catalysts for the preferential CO oxidation (PROX). Applied Catalysis A: General, 2014, 487, 119-129.	2.2	29
40	Preferential oxidation of CO in excess of H2 on Pt/CeO2â€“Nb2O5 catalysts. Applied Catalysis A: General, 2015, 492, 201-211.	2.2	28
41	Effect of the metal precursor on the properties of Ru/ZnO catalysts. Applied Catalysis A: General, 2010, 374, 221-227.	2.2	27
42	Understanding the solar-driven reduction of CO₂ on doped ceria. RSC Advances, 2014, 4, 16456-16463.	1.7	27
43	Butane Dry Reforming Catalyzed by Cobalt Oxide Supported on Ti₂AlC MAX Phase. ChemSusChem, 2020, 13, 6401-6408.	3.6	26
44	Enhancing the catalytic performance of Pt/ZnO in the vapour phase hydrogenation of crotonaldehyde by the addition of Cr to the support. Catalysis Communications, 2008, 9, 1243-1246.	1.6	25
45	Induced Chirality in a Metalâ€“Organic Framework by Postsynthetic Modification for Highly Selective Asymmetric Aldol Reactions. ChemCatChem, 2014, 6, 2211-2214.	1.8	25
46	Mixedâ€Valence Ce/Zr Metalâ€Organic Frameworks: Controlling the Oxidation State of Cerium in Oneâ€Pot Synthesis Approach. Advanced Functional Materials, 2021, 31, 2102582.	7.8	25
47	High performance of Cu/CeO2-Nb2O5 catalysts for preferential CO oxidation and total combustion of toluene. Applied Catalysis A: General, 2015, 502, 129-137.	2.2	22
48	Influence of the Oxidation Process of Carbon Material on the Mechanical Properties of Cement Mortars. Journal of Materials in Civil Engineering, 2011, 23, 321-329.	1.3	21
49	Understanding ZIFâ€8 Performance upon Gas Adsorption by Means of Inelastic Neutron Scattering. ChemistrySelect, 2017, 2, 2750-2753.	0.7	21
50	Improved mechanical stability of HKUST-1 in confined nanospace. Chemical Communications, 2015, 51, 14191-14194.	2.2	19
51	Highâ€Performance of Gas Hydrates in Confined Nanospace for Reversible CH₄/CO₂ Storage. Chemistry - A European Journal, 2016, 22, 10028-10035.	1.7	19
52	Efficient Gas Separation and Transport Mechanism in Rare Hemilabile Metalâ€“Organic Framework. Chemistry of Materials, 2019, 31, 5856-5866.	3.2	18
53	The effect of the cerium precursor and the carbon surface chemistry on the dispersion of ceria on activated carbon. Journal of Materials Science, 2008, 43, 1525-1531.	1.7	17
54	Surface oxidation of Ti₃C₂T_x enhances the catalytic activity of supported platinum nanoparticles in ammonia borane hydrolysis. 2D Materials, 2021, 8, 015001.	2.0	17

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55	Layered double hydroxides as base catalysts for the synthesis of dimethyl carbonate. Catalysis Today, 2017, 296, 254-261.	2.2	16
56	Molybdenum Oxide Supported on Ti₃AlC₂ is an Active Reverse Waterâ€“Gas Shift Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 4957-4966.	3.2	15
57	Enhancing catalytic epoxide ring-opening selectivity using surface-modified Ti₃C₂T _x MXenes. 2D Materials, 2021, 8, 035003.	2.0	15
58	Clean production of Zeolitic Imidazolate Framework 8 using Zamak residues as metal precursor and substrate. Journal of Cleaner Production, 2020, 260, 121081.	4.6	15
59	CHAPTER 10. MOFs as Nano‐reactors. RSC Catalysis Series, 0, , 310-343.	0.1	14
60	Postâ€•Synthetic Modification of ZIFâ€•8 Crystals and Films through UV Light Photoirradiation: Impact on the Physicochemical Behavior of the MOF. ChemPhysChem, 2019, 20, 3201-3209.	1.0	12
61	Manufacture of Carbon Materials with High Nitrogen Content. Materials, 2022, 15, 2415.	1.3	12
62	New route for the synthesis of Co-MOF from metal substrates. Microporous and Mesoporous Materials, 2021, 324, 111310.	2.2	11
63	New Generation of MOF-Monoliths Based on Metal Foams. Molecules, 2022, 27, 1968.	1.7	11
64	Influence of the surface chemistry of activated carbons on the ATRP catalysis of methyl methacrylate polymerization. Applied Catalysis A: General, 2011, 397, 225-233.	2.2	7
65	TixCe(1-x)O2 as Pt support for the PROX reaction: Effect of the solvothermal synthesis. International Journal of Hydrogen Energy, 2017, 42, 29262-29273.	3.8	7
66	Hydrogenation of 4-nitrochlorobenzene catalysed by cobalt nanoparticles supported on nitrogen-doped activated carbon. Catalysis Science and Technology, 2021, 11, 3845-3854.	2.1	7
67	Highly N2-Selective Activated Carbon-Supported Pt-In Catalysts for the Reduction of Nitrites in Water. Frontiers in Chemistry, 2021, 9, 733881.	1.8	6