Pablo Serra Crespo

List of Publications by Year
in descending order

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38 papers	3,623 citations	236925 25 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	5142 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of an Amino Functionalized MIL-101(Al): Separation and Catalytic Properties. Chemistry of Materials, 2011, 23, 2565-2572.	6.7	479
2	Electrochemical Synthesis of Some Archetypical Zn²⁺, Cu²⁺, and Al³⁺ Metal Organic Frameworks. Crystal Growth and Design, 2012, 12, 3489-3498.	3.0	406
3	Functionalized flexible MOFs as fillers in mixed matrix membranes for highly selective separation of CO2 from CH4 at elevated pressures. Chemical Communications, 2011, 47, 9522.	4.1	340
4	Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structureâ€Performance Relationships in CO₂/CH₄ Separation Over NH₂â€MILâ€53(Al)@PI. Advanced Functional Materials, 2014, 24, 249-256.	14.9	262
5	Isolated Fe Sites in Metal Organic Frameworks Catalyze the Direct Conversion of Methane to Methanol. ACS Catalysis, 2018, 8, 5542-5548.	11.2	200
6	Kinetic Control of Metalâ€“Organic Framework Crystallization Investigated by Timeâ€Resolved Inâ€…Situ Xâ€Ray Scattering. Angewandte Chemie - International Edition, 2011, 50, 9624-9628.	13.8	182
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.	6.2	147
8	NH₂-MIL-53(Al): A High-Contrast Reversible Solid-State Nonlinear Optical Switch. Journal of the American Chemical Society, 2012, 134, 8314-8317.	13.7	144
9	Towards acid MOFs â€“ catalytic performance of sulfonic acid functionalized architectures. Catalysis Science and Technology, 2013, 3, 2311.	4.1	141
10	Highly Selective Chemical Sensing in a Luminescent Nanoporous Magnet. Advanced Materials, 2012, 24, 5625-5629.	21.0	131
11	Mixed matrix membranes based on NH2-functionalized MIL-type MOFs: Influence of structural and operational parameters on the CO2/CH4 separation performance. Microporous and Mesoporous Materials, 2014, 192, 35-42.	4.4	123
12	Experimental evidence of negative linear compressibility in the MIL-53 metalâ€“organic framework family. CrystEngComm, 2015, 17, 276-280.	2.6	119
13	Adsorption and Separation of Light Gases on an Aminoâ€Functionalized Metalâ€“Organic Framework: An Adsorption and Inâ€…Situ XRD Study. ChemSusChem, 2012, 5, 740-750.	6.8	115
14	Selective Gas and Vapor Sorption and Magnetic Sensing by an Isoreticular Mixed-Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 15301-15304.	13.7	109
15	Interplay of Metal Node and Amine Functionality in NH₂-MIL-53: Modulating Breathing Behavior through Intra-framework Interactions. Langmuir, 2012, 28, 12916-12922.	3.5	98
16	The oxamate route, a versatile post-functionalization for metal incorporation in MIL-101(Cr): Catalytic applications of Cu, Pd, and Au. Journal of Catalysis, 2013, 307, 295-304.	6.2	86
17	Thermodynamic analysis of the breathing of amino-functionalized MIL-53(Al) upon CO2 adsorption. Microporous and Mesoporous Materials, 2011, 140, 108-113.	4.4	78
18	High compressibility of a flexible metalâ€“organic framework. RSC Advances, 2012, 2, 5051.	3.6	61

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19	Post-synthetic cation exchange in the robust metalâ€“organic framework MIL-101(Cr). CrystEngComm, 2013, 15, 10175.	2.6	44
20	Nanocarrierâ€Mediated Photochemotherapy and Photoradiotherapy. Advanced Healthcare Materials, 2018, 7, e1701211.	7.6	43
21	Evidence for a chemical clock in oscillatory formation of UiO-66. Nature Communications, 2016, 7, 11832.	12.8	34
22	Molecular simulation of gas adsorption and diffusion in a breathing MOF using a rigid force field. Physical Chemistry Chemical Physics, 2014, 16, 16060-16066.	2.8	31
23	Separation of CO 2 /CH 4 mixtures over NH 2 -MIL-53â€”An experimental and modelling study. Chemical Engineering Science, 2015, 124, 96-108.	3.8	28
24	Synthesis and gas adsorption properties of mesoporous silica-NH2-MIL-53(Al)Âcoreâ€“shell spheres. Microporous and Mesoporous Materials, 2016, 225, 116-121.	4.4	28
25	Interplay of Linker Functionalization and Hydrogen Adsorption in the Metalâ€“Organic Framework MIL-101. Journal of Physical Chemistry C, 2014, 118, 19572-19579.	3.1	22
26	Temperature-Dependent Supramolecular Isomerism of Lutetium-Aminoterephthalate Metalâ€“Organic Frameworks: Synthesis, Crystallography, and Physical Properties. Crystal Growth and Design, 2016, 16, 5636-5645.	3.0	20
27	Separation of nuclear isomers for cancer therapeutic radionuclides based on nuclear decay after-effects. Scientific Reports, 2017, 7, 44242.	3.3	18
28	Preliminary Design of a Vacuum Pressure Swing Adsorption Process for Natural Gas Upgrading Based on Aminoâ€Functionalized MILâ€53. Chemical Engineering and Technology, 2015, 38, 1183-1194.	1.5	16
29	The Impact of Post-Synthetic Linker Functionalization of MOFs on Methane Storage: The Role of Defects. Frontiers in Energy Research, 2016, 4, .	2.3	16
30	Cu-BTC Functional Microdevices as Smart Tools for Capture and Preconcentration of Nerve Agents. ACS Applied Materials & Interfaces, 2020, 12, 42622-42633.	8.0	13
31	Adsorption of molybdenum on Zr-based MOFs for potential application in the 99Mo/99mTc generator. Applied Surface Science, 2022, 572, 151340.	6.1	12
32	Effects of High Gamma Doses on the Structural Stability of Metalâ€“Organic Frameworks. Langmuir, 0, , .	3.5	11
33	Radionuclide generator-based production of therapeuticÂ177Lu from its long-lived isomer 177mLu. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 13.	3.9	10
34	Large-scale production of lutetium-177m for the 177mLu/177Lu radionuclide generator. Applied Radiation and Isotopes, 2020, 156, 108986.	1.5	8
35	Metal-Organic Frameworks: Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structure-Performance Relationships in CO2/CH4Separation Over NH2-MIL-53(Al)@PI (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlock	14.9	
36	Towards the production of carrier-free 99Mo by neutron activation of 98Mo in molybdenum hexacarbonyl â€“Szilard-Chalmers enrichment. Applied Radiation and Isotopes, 2018, 140, 138-145.	1.5	3

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37	Modelling of the 177mLu/177Lu radionuclide generator. Applied Radiation and Isotopes, 2020, 166, 109261.	1.5	1
38	Solid phase extraction-based separation of the nuclear isomers 177mLu and 177Lu. Applied Radiation and Isotopes, 2020, 164, 109264.	1.5	0