

Pablo Serra Crespo

List of Publications by Year in descending order

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papers

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5142
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of molybdenum on Zr-based MOFs for potential application in the ⁹⁹ Mo/ ^{99m} Tc generator. Applied Surface Science, 2022, 572, 151340.	6.1	12
2	Large-scale production of lutetium-177m for the ^{177m} Lu/ ¹⁷⁷ Lu radionuclide generator. Applied Radiation and Isotopes, 2020, 156, 108986.	1.5	8
3	Modelling of the ^{177m} Lu/ ¹⁷⁷ Lu radionuclide generator. Applied Radiation and Isotopes, 2020, 166, 109261.	1.5	1
4	Solid phase extraction-based separation of the nuclear isomers ^{177m} Lu and ¹⁷⁷ Lu. Applied Radiation and Isotopes, 2020, 164, 109264.	1.5	0
5	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
6	Radionuclide generator-based production of therapeutic ¹⁷⁷ Lu from its long-lived isomer ^{177m} Lu. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 13.	3.9	10
7	Nanocarrier-mediated Photochemotherapy and Photoradiotherapy. Advanced Healthcare Materials, 2018, 7, e1701211.	7.6	43
8	Towards the production of carrier-free ⁹⁹ Mo by neutron activation of ⁹⁸ Mo in molybdenum hexacarbonyl – Szilard-Chalmers enrichment. Applied Radiation and Isotopes, 2018, 140, 138-145.	1.5	3
9	Isolated Fe Sites in Metal Organic Frameworks Catalyze the Direct Conversion of Methane to Methanol. ACS Catalysis, 2018, 8, 5542-5548.	11.2	200
10	Separation of nuclear isomers for cancer therapeutic radionuclides based on nuclear decay after-effects. Scientific Reports, 2017, 7, 44242.	3.3	18
11	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
12	Evidence for a chemical clock in oscillatory formation of UiO-66. Nature Communications, 2016, 7, 11832.	12.8	34
13	Temperature-Dependent Supramolecular Isomerism of Lutetium-Aminoterephthalate Metal-Organic Frameworks: Synthesis, Crystallography, and Physical Properties. Crystal Growth and Design, 2016, 16, 5636-5645.	3.0	20
14	Synthesis and gas adsorption properties of mesoporous silica-NH ₂ -MIL-53(Al) core-shell spheres. Microporous and Mesoporous Materials, 2016, 225, 116-121.	4.4	28
15	Preliminary Design of a Vacuum Pressure Swing Adsorption Process for Natural Gas Upgrading Based on Amino-Functionalized MIL-53. Chemical Engineering and Technology, 2015, 38, 1183-1194.	1.5	16
16	Experimental evidence of negative linear compressibility in the MIL-53 metal-organic framework family. CrystEngComm, 2015, 17, 276-280.	2.6	119
17	Separation of CO ₂ /CH ₄ mixtures over NH ₂ -MIL-53 – An experimental and modelling study. Chemical Engineering Science, 2015, 124, 96-108.	3.8	28
18	Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structure-Performance Relationships in CO ₂ /CH ₄ Separation Over NH ₂ -MIL-53(Al)@PI. Advanced Functional Materials, 2014, 24, 249-256.	14.9	262

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19	Metal-Organic Frameworks: Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structure-Performance Relationships in CO ₂ /CH ₄ Separation Over NH ₂ -MIL-53(Al)@PI (Adv. Funct. Tj ETQq1 1 0.784314 rgBf /Overlo		
20	Interplay of Linker Functionalization and Hydrogen Adsorption in the Metal-Organic Framework MIL-101. Journal of Physical Chemistry C, 2014, 118, 19572-19579.	3.1	22
21	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
22	Mixed matrix membranes based on NH ₂ -functionalized MIL-type MOFs: Influence of structural and operational parameters on the CO ₂ /CH ₄ separation performance. Microporous and Mesoporous Materials, 2014, 192, 35-42.	4.4	123
23	Post-synthetic cation exchange in the robust metal-organic framework MIL-101(Cr). CrystEngComm, 2013, 15, 10175.	2.6	44
24	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
25	Towards acid MOFs - catalytic performance of sulfonic acid functionalized architectures. Catalysis Science and Technology, 2013, 3, 2311.	4.1	141
26	High compressibility of a flexible metal-organic framework. RSC Advances, 2012, 2, 5051.	3.6	61
27	Interplay of Metal Node and Amine Functionality in NH ₂ -MIL-53: Modulating Breathing Behavior through Intra-framework Interactions. Langmuir, 2012, 28, 12916-12922.	3.5	98
28	Highly Selective Chemical Sensing in a Luminescent Nanoporous Magnet. Advanced Materials, 2012, 24, 5625-5629.	21.0	131
29	NH ₂ -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
30	Selective Gas and Vapor Sorption and Magnetic Sensing by an Isorecticular Mixed-Metal-Organic Framework. Journal of the American Chemical Society, 2012, 134, 15301-15304.	13.7	109
31	Electrochemical Synthesis of Some Archetypical Zn ²⁺ , Cu ²⁺ , and Al ³⁺ Metal Organic Frameworks. Crystal Growth and Design, 2012, 12, 3489-3498.	3.0	406
32	Adsorption and Separation of Light Gases on an Amino-Functionalized Metal-Organic Framework: An Adsorption and In-Situ XRD Study. ChemSusChem, 2012, 5, 740-750.	6.8	115
33	Highly dispersed platinum in metal organic framework NH ₂ -MIL-101(Al) containing phosphotungstic acid - Characterization and catalytic performance. Journal of Catalysis, 2012, 289, 42-52.	6.2	147
34	Functionalized flexible MOFs as fillers in mixed matrix membranes for highly selective separation of CO ₂ from CH ₄ at elevated pressures. Chemical Communications, 2011, 47, 9522.	4.1	340
35	Synthesis and Characterization of an Amino Functionalized MIL-101(Al): Separation and Catalytic Properties. Chemistry of Materials, 2011, 23, 2565-2572.	6.7	479
36	Kinetic Control of Metal-Organic Framework Crystallization Investigated by Time-Resolved In-Situ X-Ray Scattering. Angewandte Chemie - International Edition, 2011, 50, 9624-9628.	13.8	182

#	ARTICLE	IF	CITATIONS
37	Thermodynamic analysis of the breathing of amino-functionalized MIL-53(Al) upon CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 108-113.	4.4	78
38	Effects of High Gamma Doses on the Structural Stability of Metal-Organic Frameworks. <i>Langmuir</i> , 0, , .	3.5	11