

Fabrice Salles

List of Publications by Year in descending order

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76
papers

4,382
citations

147726

31
h-index

106281

65
g-index

81
all docs

81
docs citations

81
times ranked

5360
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization in Flexible Porous Solids: Effects on the Pore Opening and the Host-Guest Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 1127-1136.	6.6	445
2	How Linker's Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. <i>Journal of the American Chemical Society</i> , 2011, 133, 17839-17847.	6.6	383
3	Molecular Dynamics Simulations of Breathing MOFs: Structural Transformations of MIL-53(Cr) upon Thermal Activation and CO ₂ Adsorption. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8487-8491.	7.2	302
4	Multistep N ₂ Breathing in the Metal-Organic Framework Co(1,4-benzenedipyrazolate). <i>Journal of the American Chemical Society</i> , 2010, 132, 13782-13788.	6.6	220
5	Structural Descriptors of Zeolitic-Imidazolate Frameworks Are Keys to the Activity of Fe-N-C Catalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 453-464.	6.6	173
6	Quasi-Elastic Neutron Scattering and Molecular Dynamics Study of Methane Diffusion in Metal Organic Frameworks MIL-47(V) and MIL-53(Cr). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6611-6615.	7.2	154
7	Probing the Dynamics of CO ₂ and CH ₄ within the Porous Zirconium Terephthalate UiO-66(Zr): A Synergic Combination of Neutron Scattering Measurements and Molecular Simulations. <i>Chemistry - A European Journal</i> , 2011, 17, 8882-8889.	1.7	137
8	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10764-10776.	1.5	128
9	Toward Understanding Drug Incorporation and Delivery from Biocompatible Metal-Organic Frameworks in View of Cutaneous Administration. <i>ACS Omega</i> , 2018, 3, 2994-3003.	1.6	128
10	Effect of the organic functionalization of flexible MOFs on the adsorption of CO ₂ . <i>Journal of Materials Chemistry</i> , 2012, 22, 10266.	6.7	125
11	Study of Adsorption and Intercalation of Orange-Type Dyes into Mg-Al Layered Double Hydroxide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23388-23397.	1.5	116
12	Chitosan-coated mesoporous MIL-100(Fe) nanoparticles as improved bio-compatible oral nanocarriers. <i>Scientific Reports</i> , 2017, 7, 43099.	1.6	114
13	Transport Diffusivity of CO ₂ in the Highly Flexible Metal-Organic Framework MIL-53(Cr). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8335-8339.	7.2	109
14	Self and Transport Diffusivity of CO ₂ in the Metal-Organic Framework MIL-47(V) Explored by Quasi-elastic Neutron Scattering Experiments and Molecular Dynamics Simulations. <i>ACS Nano</i> , 2010, 4, 143-152.	7.3	109
15	Experimental Evidence Supported by Simulations of a Very High H_2 Diffusion in Metal Organic Framework Materials. <i>Physical Review Letters</i> , 2008, 100, 245901.	2.9	99
16	Mixed-Linker Hybrid Superpolyhedra for the Production of a Series of Large-Pore Iron(III) Carboxylate Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5056-5060.	7.2	97
17	Hydration sequence of swelling clays: Evolutions of specific surface area and hydration energy. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 510-522.	5.0	95
18	Extended and functionalized porous iron(III) tri- or dicarboxylates with MIL-100/101 topologies. <i>Chemical Communications</i> , 2014, 50, 6872.	2.2	93

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19	Adsorption and Diffusion of H ₂ in the MOF Type Systems MIL-47(V) and MIL-53(Cr): A Combination of Microcalorimetry and QENS Experiments with Molecular Simulations. Journal of Physical Chemistry C, 2009, 113, 7802-7812.	1.5	89
20	On the Cation Dependence of Interlamellar and Interparticular Water and Swelling in Smectite Clays. Langmuir, 2010, 26, 5028-5037.	1.6	79
21	Nanometric MIL-125-NH ₂ Metal-Organic Framework as a Potential Nerve Agent Antidote Carrier. Nanomaterials, 2017, 7, 321.	1.9	71
22	Nickel phosphonate MOF as efficient water splitting photocatalyst. Nano Research, 2021, 14, 450-457.	5.8	68
23	A calorimetric study of mesoscopic swelling and hydration sequence in solid Na-montmorillonite. Applied Clay Science, 2008, 39, 186-201.	2.6	66
24	Determination of the Driving Force for the Hydration of the Swelling Clays from Computation of the Hydration Energy of the Interlayer Cations and the Clay Layer. Journal of Physical Chemistry C, 2007, 111, 13170-13176.	1.5	60
25	A new aluminium-based microporous metal-organic framework: Al(BTB) (BTB =) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 502 Td	2.2	58
26	Diffusion of Binary CO ₂ /CH ₄ Mixtures in the MIL-47(V) and MIL-53(Cr) Metal-Organic Framework Type Solids: A Combination of Neutron Scattering Measurements and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2013, 117, 11275-11284.	1.5	51
27	Driving force for the hydration of the swelling clays: Case of montmorillonites saturated with alkaline-earth cations. Journal of Colloid and Interface Science, 2013, 395, 269-276.	5.0	43
28	Ionic Mobility and Hydration Energies in Montmorillonite Clay. Journal of Physical Chemistry C, 2008, 112, 14001-14009.	1.5	35
29	A Critical Review of Solid Materials for Low-Temperature Thermochemical Storage of Solar Energy Based on Solid-Vapour Adsorption in View of Space Heating Uses. Molecules, 2019, 24, 945.	1.7	35
30	Surface energy of talc and chlorite: Comparison between electronegativity calculation and immersion results. Journal of Colloid and Interface Science, 2007, 305, 352-360.	5.0	31
31	A highly conductive nanostructured PEDOT polymer confined into the mesoporous MIL-100(Fe). Dalton Transactions, 2019, 48, 9807-9817.	1.6	30
32	A Joint Experimental/Computational Exploration of the Dynamics of Confined Water/Zr-Based MOFs Systems. Journal of Physical Chemistry C, 2014, 118, 14441-14448.	1.5	29
33	Diffusion of Interlayer Cations in Swelling Clays as a Function of Water Content: Case of Montmorillonites Saturated with Alkali Cations. Journal of Physical Chemistry C, 2015, 119, 10370-10378.	1.5	27
34	One-pot synthesis of 5-FU@ZIF-8 and ibuprofen@ZIF-8 nanoparticles. Inorganica Chimica Acta, 2020, 500, 119229.	1.2	26
35	Employing three-blade propeller lanthanide complexes as molecular luminescent thermometers: study of temperature sensing through a concerted experimental/theory approach. Journal of Materials Chemistry C, 2022, 10, 7176-7188.	2.7	25
36	Improving the genistein oral bioavailability via its formulation into the metal-organic framework MIL-100(Fe). Journal of Materials Chemistry B, 2021, 9, 2233-2239.	2.9	22

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37	How Does Competition between Anionic Pollutants Affect Adsorption onto Mg-Al Layered Double Hydroxide? Three Competition Schemes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10410-10418.	1.5	21
38	On the use of metal cation-exchanged zeolites in sorption thermochemical storage: Some practical aspects in reference to the mechanism of water vapor adsorption. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 223-230.	3.0	20
39	A new proton-conducting Bi-carboxylate framework. <i>Dalton Transactions</i> , 2019, 48, 11181-11185.	1.6	20
40	Ultrafast reproducible synthesis of a Ag-nanocluster@MOF composite and its superior visible-photocatalytic activity in batch and in continuous flow. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15704-15713.	5.2	19
41	Determination of the surface energy of kaolinite and serpentine using PACHA formalism—Comparison with immersion experiments. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 617-626.	5.0	18
42	Key Study on the Potential of Hydrazine Bisborane for Solid- and Liquid-State Chemical Hydrogen Storage. <i>Inorganic Chemistry</i> , 2015, 54, 4574-4583.	1.9	18
43	Systematic utilization of layered double hydroxide nanosheets for effective removal of methyl orange from an aqueous system by π - π stacking-induced nanoconfinement. <i>Journal of Environmental Management</i> , 2021, 277, 111455.	3.8	18
44	Thermal Expansion of Ni-Ti-Sn Heusler and Half-Heusler Materials from First-Principles Calculations and Experiments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22405-22411.	1.5	17
45	A Switch in the Hydrophobic/Hydrophilic Gas Adsorption Character of Prussian Blue Analogues: An Affinity Control for Smart Gas Sorption. <i>Chemistry - A European Journal</i> , 2019, 25, 479-484.	1.7	17
46	Effect of the ligand functionalization on the acid-base properties of flexible MOFs. <i>Microporous and Mesoporous Materials</i> , 2014, 195, 197-204.	2.2	16
47	Hydration mechanism in Ce-exchanged zeolites and heat release performances upon adsorption of water vapour in support of their potential use in thermochemical storage of energy under mild conditions of adsorbent regeneration and saturation. <i>Microporous and Mesoporous Materials</i> , 2020, 296, 109999.	2.2	16
48	Study of the surface energy of montmorillonite using PACHA formalism. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 175-182.	5.0	14
49	Adsorption of volatile organic compounds by ZIF-8, Cu-BTC and a Prussian blue analogue: A comparative study. <i>Inorganica Chimica Acta</i> , 2020, 501, 119316.	1.2	14
50	Thermodynamic analysis of the immersion of a smectite substituted with Na or Ca: Heat effect due to the cation. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 531-542.	5.0	13
51	A Nonlinear Optically Active Bismuth-Camphorate Coordination Polymer. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2437-2443.	1.0	12
52	Fashioning Prussian Blue Nanoparticles by Adsorption of Luminophores: Synthesis, Properties, and in Vitro Imaging. <i>Inorganic Chemistry</i> , 2020, 59, 4567-4575.	1.9	11
53	Synergic effect of doxorubicin release and two-photon irradiation of Mn ²⁺ -doped Prussian blue nanoparticles on cancer therapy. <i>RSC Advances</i> , 2020, 10, 2646-2649.	1.7	10
54	Impact of the substitution distribution and the interlayer distance on both the surface energy and the hydration energy for Pb-montmorillonite. <i>Applied Clay Science</i> , 2011, 53, 379-385.	2.6	9

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55	Microwave-assisted hydrothermal synthesis of manganate nanoflowers for selective retention of strontium. <i>Journal of Hazardous Materials</i> , 2019, 368, 661-669.	6.5	9
56	Towards improving the capacity of UiO-66 for antibiotic elimination from contaminated water. <i>Faraday Discussions</i> , 2021, 231, 356-370.	1.6	9
57	Making Prussian blue analogues nanoparticles luminescent: effect of the luminophore confinement over the properties. <i>Nanoscale</i> , 2019, 11, 7097-7101.	2.8	8
58	Enantioselective separation under humid conditions by chiral Hofmann clathrates: new opportunities for vintage materials. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3245-3254.	3.0	7
59	Proton Conductive Zr-Phosphonate UPG-1 Aminoacid Insertion as Proton Carrier Stabilizer. <i>Molecules</i> , 2020, 25, 3519.	1.7	7
60	Impact of Structural Functionalization, Pore Size, and Presence of Extra-Framework Ions on the Capture of Gaseous I ₂ by MOF Materials. <i>Nanomaterials</i> , 2021, 11, 2245.	1.9	7
61	A rational study of the influence of Mn ²⁺ -insertion in Prussian blue nanoparticles on their photothermal properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9670-9683.	2.9	6
62	Zirconium-Based Metal Organic Frameworks for the Capture of Carbon Dioxide and Ethanol Vapour. A Comparative Study. <i>Molecules</i> , 2021, 26, 7620.	1.7	6
63	Ionosilica-based anion exchangers for low-temperature thermochemical storage of energy under mild conditions of adsorbent regeneration and saturation. <i>Chemical Engineering Journal</i> , 2020, 398, 125634.	6.6	5
64	Ion-Exchanged UPG-1 as Potential Electrolyte for Fuel Cells. <i>Inorganic Chemistry</i> , 2021, 60, 11803-11812.	1.9	5
65	Using N-Heterocyclic Carbenes as Weak Equatorial Ligands to Design Single-Molecule Magnets: Zero-Field Slow Relaxation in Two Octahedral Dysprosium(III) Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 1264-1269.	1.9	5
66	Hydrolysis of the Borohydride Anion BH ₄ ⁻ : A ¹¹ B NMR Study Showing the Formation of Short-Living Reaction Intermediates including BH ₃ OH ⁻ . <i>Molecules</i> , 2022, 27, 1975.	1.7	5
67	Post-synthetic modification of Prussian blue type nanoparticles: tailoring the chemical and physical properties. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3943-3971.	3.0	5
68	Phenomenology of Water Adsorption at Clay Surfaces. <i>Interface Science and Technology</i> , 2004, 1, 118-152.	1.6	4
69	Heat Release Kinetics upon Water Vapor Sorption Using Cation-Exchanged Zeolites and Prussian Blue Analogues as Adsorbents: Application to Short-Term Low-Temperature Thermochemical Storage of Energy. <i>Energies</i> , 2021, 14, 3505.	1.6	4
70	Influence of the Templating Amine on the Nanostructure and Charge of Layered Vanadates for Radioactive Wastewater Treatment. <i>ACS Applied Nano Materials</i> , 2019, 2, 497-504.	2.4	3
71	Further insight on amine-metal reaction in epoxy systems. <i>Surfaces and Interfaces</i> , 2021, 23, 100959.	1.5	3
72	Adsorption of Benzene in the Cation-Containing MOFs MIL-141. <i>Journal of Physical Chemistry C</i> , 0, , 130913101409004.	1.5	2

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73	Cold sintering yields first layered double hydroxides (LDH) monolithic materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115704.	1.7	2
74	SUSTAINED ANTIBACTERIAL EFFECT OF LEVOFLOXACIN DRUG IN A POLYMER MATRIX BY HYBRIDIZATION WITH A LAYERED DOUBLE HYDROXIDE. <i>Clays and Clay Minerals</i> , 0, , 1.	0.6	1
75	Phenomenology of Water Adsorption at Clay Surfaces. <i>ChemInform</i> , 2005, 36, no.	0.1	0
76	Influence of the Nanotube Morphology and Intercalated Species on the Sorption Properties of Hybrid Layered Vanadium Oxides: Application for Cesium Removal from Aqueous Streams. <i>Nanomaterials</i> , 2021, 11, 2349.	1.9	0