Fabrice Salles

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1470654/publications.pdf

Version: 2024-02-01

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	Using N-Heterocyclic Carbenes as Weak Equatorial Ligands to Design Single-Molecule Magnets: Zero-Field Slow Relaxation in Two Octahedral Dysprosium(III) Complexes. Inorganic Chemistry, 2022, 61, 1264-1269.	1.9	5
2	Hydrolysis of the Borohydride Anion BH4â^': A 11B NMR Study Showing the Formation of Short-Living Reaction Intermediates including BH3OHâ^'. Molecules, 2022, 27, 1975.	1.7	5
3	Cold sintering yields first layered double hydroxides (LDH) monolithic materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 280, 115704.	1.7	2
4	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
5	Post-synthetic modification of Prussian blue type nanoparticles: tailoring the chemical and physical properties. Inorganic Chemistry Frontiers, 2022, 9, 3943-3971.	3.0	5
6	Nickel phosphonate MOF as efficient water splitting photocatalyst. Nano Research, 2021, 14, 450-457.	5.8	68
7	Systematic utilization of layered double hydroxide nanosheets for effective removal of methyl orange from an aqueous system by Ï€-Ï€ stacking-induced nanoconfinement. Journal of Environmental Management, 2021, 277, 111455.	3.8	18
8	Towards improving the capacity of UiO-66 for antibiotic elimination from contaminated water. Faraday Discussions, 2021, 231, 356-370.	1.6	9
9	Further insight on amine-metal reaction in epoxy systems. Surfaces and Interfaces, 2021, 23, 100959.	1.5	3
10	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. Energies, 2021, 14, 3505.	1.6	4
11	Ion-Exchanged UPG-1 as Potential Electrolyte for Fuel Cells. Inorganic Chemistry, 2021, 60, 11803-11812.	1.9	5
12	Impact of Structural Functionalization, Pore Size, and Presence of Extra-Framework Ions on the Capture of Gaseous I2 by MOF Materials. Nanomaterials, 2021, 11, 2245.	1.9	7
13	Influence of the Nanotube Morphology and Intercalated Species on the Sorption Properties of Hybrid Layered Vanadium Oxides: Application for Cesium Removal from Aqueous Streams. Nanomaterials, 2021, 11, 2349.	1.9	0
14	Ultrafast reproducible synthesis of a Ag-nanocluster@MOF composite and its superior visible-photocatalytic activity in batch and in continuous flow. Journal of Materials Chemistry A, 2021, 9, 15704-15713.	5.2	19
15	Improving the genistein oral bioavailability via its formulation into the metalâ€“organic framework MIL-100(Fe). Journal of Materials Chemistry B, 2021, 9, 2233-2239.	2.9	22
16	A rational study of the influence of Mn2+-insertion in Prussian blue nanoparticles on their photothermal properties. Journal of Materials Chemistry B, 2021, 9, 9670-9683.	2.9	6
17	Zirconium-Based Metal Organic Frameworks for the Capture of Carbon Dioxide and Ethanol Vapour. A Comparative Study. Molecules, 2021, 26, 7620.	1.7	6
18	One-pot synthesis of 5-FU@ZIF-8 and ibuprofen@ZIF-8 nanoparticles. Inorganica Chimica Acta, 2020, 500, 119229.	1.2	26

#	Article	IF	Citations
19	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. Microporous and Mesoporous Materials, 2020, 296, 109999.	2.2	16
20	Adsorption of volatile organic compounds by ZIF-8, Cu-BTC and a Prussian blue analogue: A comparative study. Inorganica Chimica Acta, 2020, 501, 119316.	1.2	14
21	Proton Conductive Zr-Phosphonate UPG-1â€"Aminoacid Insertion as Proton Carrier Stabilizer. Molecules, 2020, 25, 3519.	1.7	7
22	Fashioning Prussian Blue Nanoparticles by Adsorption of Luminophores: Synthesis, Properties, and in Vitro Imaging. Inorganic Chemistry, 2020, 59, 4567-4575.	1.9	11
23	Ionosilica-based anion exchangers for low-temperature thermochemical storage of energy under mild conditions of adsorbent regeneration and saturation. Chemical Engineering Journal, 2020, 398, 125634.	6.6	5
24	Synergic effect of doxorubicin release and two-photon irradiation of Mn²⁺-doped Prussian blue nanoparticles on cancer therapy. RSC Advances, 2020, 10, 2646-2649.	1.7	10
25	A Switch in the Hydrophobic/Hydrophilic Gasâ€Adsorption Character of Prussian Blue Analogues: An Affinity Control for Smart Gas Sorption. Chemistry - A European Journal, 2019, 25, 479-484.	1.7	17
26	Making Prussian blue analogues nanoparticles luminescent: effect of the luminophore confinement over the properties. Nanoscale, 2019, 11, 7097-7101.	2.8	8
27	Microwave-assisted hydrothermal synthesis of manganate nanoflowers for selective retention of strontium. Journal of Hazardous Materials, 2019, 368, 661-669.	6.5	9
28	A new proton-conducting Bi-carboxylate framework. Dalton Transactions, 2019, 48, 11181-11185.	1.6	20
29	A highly conductive nanostructured PEDOT polymer confined into the mesoporous MIL-100(Fe). Dalton Transactions, 2019, 48, 9807-9817.	1.6	30
30	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
31	Enantioselective separation under humid conditions by chiral Hofmann clathrates: new opportunities for vintage materials. Inorganic Chemistry Frontiers, 2019, 6, 3245-3254.	3.0	7
32	Influence of the Templating Amine on the Nanostructure and Charge of Layered Vanadates for Radioactive Wastewater Treatment. ACS Applied Nano Materials, 2019, 2, 497-504.	2.4	3
33	A Nonlinear Optically Active Bismuthâ€"Camphorate Coordination Polymer. European Journal of Inorganic Chemistry, 2018, 2018, 2437-2443.	1.0	12
34	Toward Understanding Drug Incorporation and Delivery from Biocompatible Metalâ€"Organic Frameworks in View of Cutaneous Administration. ACS Omega, 2018, 3, 2994-3003.	1.6	128
35	On the use of metal cation-exchanged zeolites in sorption thermochemical storage: Some practical aspects in reference to the mechanism of water vapor adsorption. Solar Energy Materials and Solar Cells, 2018, 179, 223-230.	3.0	20
36	Chitosan-coated mesoporous MIL-100(Fe) nanoparticles as improved bio-compatible oral nanocarriers. Scientific Reports, 2017, 7, 43099.	1.6	114

#	Article	IF	Citations
37	Structural Descriptors of Zeoliticâ€“Imidazolate Frameworks Are Keys to the Activity of Feâ€“Nâ€“C Catalysts. Journal of the American Chemical Society, 2017, 139, 453-464.	6.6	173
38	Nanometric MIL-125-NH2 Metalâ€“Organic Framework as a Potential Nerve Agent Antidote Carrier. Nanomaterials, 2017, 7, 321.	1.9	71
39	How Does Competition between Anionic Pollutants Affect Adsorption onto Mgâ€“Al Layered Double Hydroxide? Three Competition Schemes. Journal of Physical Chemistry C, 2016, 120, 10410-10418.	1.5	21
40	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
41	Key Study on the Potential of Hydrazine Bisborane for Solid- and Liquid-State Chemical Hydrogen Storage. Inorganic Chemistry, 2015, 54, 4574-4583.	1.9	18
42	Study of Adsorption and Intercalation of Orange-Type Dyes into Mgâ€“Al Layered Double Hydroxide. Journal of Physical Chemistry C, 2015, 119, 23388-23397.	1.5	116
43	Effect of the ligand functionalization on the acidâ€“base properties of flexible MOFs. Microporous and Mesoporous Materials, 2014, 195, 197-204.	2.2	16
44	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
45	Extended and functionalized porous iron(iii) tri- or dicarboxylates with MIL-100/101 topologies. Chemical Communications, 2014, 50, 6872.	2.2	93
46	Thermal Expansion of Niâ€“Tiâ€“Sn Heusler and Half-Heusler Materials from First-Principles Calculations and Experiments. Journal of Physical Chemistry C, 2014, 118, 22405-22411.	1.5	17
47	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
48	Mixedâ€Linker Hybrid Superpolyhedra for the Production of a Series of Largeâ€Pore Iron(III) Carboxylate Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2013, 52, 5056-5060.	7.2	97
49	Diffusion of Binary CO₂/CH₄ Mixtures in the MIL-47(V) and MIL-53(Cr) Metalâ€“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
50	Effect of the organic functionalization of flexible MOFs on the adsorption of CO2. Journal of Materials Chemistry, 2012, 22, 10266.	6.7	125
51	A new aluminium-based microporous metalâ€“organic framework: Al(BTB) (BTB =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td	2.2	58
52	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. Journal of Physical Chemistry C, 2011, 115, 10764-10776.	1.5	128
53	Impact of the substitution distribution and the interlayer distance on both the surface energy and the hydration energy for Pb-montmorillonite. Applied Clay Science, 2011, 53, 379-385.	2.6	9
54	How Linkerâ€™s Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. Journal of the American Chemical Society, 2011, 133, 17839-17847.	6.6	383

#	Article	IF	Citations
55	Probing the Dynamics of CO₂ and CH₄ within the Porous Zirconium Terephthalate UiOâ€66(Zr): A Synergic Combination of Neutron Scattering Measurements and Molecular Simulations. Chemistry - A European Journal, 2011, 17, 8882-8889.	1.7	137
56	On the Cation Dependence of Interlamellar and Interparticular Water and Swelling in Smectite Clays. Langmuir, 2010, 26, 5028-5037.	1.6	79
57	Functionalization in Flexible Porous Solids: Effects on the Pore Opening and the Hostâ^'Guest Interactions. Journal of the American Chemical Society, 2010, 132, 1127-1136.	6.6	445
58	Multistep N₂ Breathing in the Metalâ^'Organic Framework Co(1,4-benzenedipyrazolate). Journal of the American Chemical Society, 2010, 132, 13782-13788.	6.6	220
59	Self and Transport Diffusivity of CO₂ in the Metalâ^'Organic Framework MIL-47(V) Explored by Quasi-elastic Neutron Scattering Experiments and Molecular Dynamics Simulations. ACS Nano, 2010, 4, 143-152.	7.3	109
60	Transport Diffusivity of CO₂ in the Highly Flexible Metalâ€"Organic Framework MILâ€53(Cr). Angewandte Chemie - International Edition, 2009, 48, 8335-8339.	7.2	109
61	Hydration sequence of swelling clays: Evolutions of specific surface area and hydration energy. Journal of Colloid and Interface Science, 2009, 333, 510-522.	5.0	95
62	Adsorption and Diffusion of H₂ 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
63	Quasiâ€Elastic Neutron Scattering and Molecular Dynamics Study of Methane Diffusion in Metal Organic Frameworks MILâ€47(V) and MILâ€53(Cr). Angewandte Chemie - International Edition, 2008, 47, 6611-6615.	7.2	154
64	Molecular Dynamics Simulations of Breathing MOFs: Structural Transformations of MILâ€53(Cr) upon Thermal Activation and CO₂ Adsorption. Angewandte Chemie - International Edition, 2008, 47, 8487-8491.	7.2	302
65	A calorimetric study of mesoscopic swelling and hydration sequence in solid Na-montmorillonite. Applied Clay Science, 2008, 39, 186-201.	2.6	66
66	Experimental Evidence Supported by Simulations of a Very High<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Diffusion in Metal Organic Framework Materials. Physical Review Letters, 2008, 100, 245901.	2.9	99
67	Ionic Mobility and Hydration Energies in Montmorillonite Clay. Journal of Physical Chemistry C, 2008, 112, 14001-14009.	1.5	35
68	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
69	Thermodynamic analysis of the immersion of a smectite substituted with Na or Ca: Heat effect due to the cation. Journal of Colloid and Interface Science, 2007, 307, 531-542.	5.0	13
70	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
71	Study of the surface energy of montmorillonite using PACHA formalism. Journal of Colloid and Interface Science, 2007, 306, 175-182.	5.0	14
72	Determination of the surface energy of kaolinite and serpentine using PACHA formalismâ€"Comparison with immersion experiments. Journal of Colloid and Interface Science, 2006, 303, 617-626.	5.0	18

#	Article	IF	Citations
73	Phenomenology of Water Adsorption at Clay Surfaces. ChemInform, 2005, 36, no.	0.1	0
74	Phenomenology of Water Adsorption at Clay Surfaces. Interface Science and Technology, 2004, 1, 118-152.	1.6	4
75	Adsorption of Benzene in the Cation-Containing MOFs MIL-141. Journal of Physical Chemistry C, 0, , 130913101409004.	1.5	2
76	SUSTAINED ANTIBACTERIAL EFFECT OF LEVOFLOXACIN DRUG IN A POLYMER MATRIX BY HYBRIDIZATION WITH A LAYERED DOUBLE HYDROXIDE. Clays and Clay Minerals, 0, , 1.	0.6	1