

GÃ©rald Chaplais

List of Publications by Year in descending order

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2682
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#	ARTICLE	IF	CITATIONS
1	Adsorption of CO ₂ , CH ₄ , and N ₂ on Zeolitic Imidazolate Frameworks: Experiments and Simulations. <i>Chemistry - A European Journal</i> , 2010, 16, 1560-1571.	1.7	344
2	Comparison of the Behavior of Metal-Organic Frameworks and Zeolites for Hydrocarbon Separations. <i>Journal of the American Chemical Society</i> , 2012, 134, 8115-8126.	6.6	253
3	Separation of C ₆ Paraffins Using Zeolitic Imidazolate Frameworks: Comparison with Zeolite 5A. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4692-4702.	1.8	130
4	Metal-Organic Framework Materials for Desulfurization by Adsorption. <i>Energy & Fuels</i> , 2012, 26, 4953-4960.	2.5	119
5	The separation of xylene isomers by ZIF-8: A demonstration of the extraordinary flexibility of the ZIF-8 framework. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 1-5.	2.2	110
6	Amino-modified MIL-68(In) with enhanced hydrogen and carbon dioxide sorption enthalpy. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 75-81.	2.2	88
7	Energetic performances of the metal-organic framework ZIF-8 obtained using high pressure water intrusion-extrusion experiments. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4888.	1.3	85
8	Investigation of Acid Centers in MIL-53(Al, Ga) for Brønsted-Type Catalysis: In-Situ FTIR and Ab-Initio Molecular Modeling. <i>ChemCatChem</i> , 2010, 2, 1235-1238.	1.8	72
9	Adsorption and Separation of Xylene Isomers: CPO-27-Ni vs HKUST-1 vs NaY. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21844-21855.	1.5	72
10	Temperature-Induced Structural Transitions in the Gallium-Based MIL-53 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8180-8188.	1.5	59
11	Water Adsorption in Flexible Gallium-Based MIL-53 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5397-5405.	1.5	55
12	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5241.	1.3	54
13	MIL-53(Al) under reflux in water: Formation of γ -AlO(OH) shell and H ₂ BDC molecules intercalated into the pores. <i>Microporous and Mesoporous Materials</i> , 2014, 183, 156-161.	2.2	51
14	Versatile Energetic Behavior of ZIF-8 upon High Pressure Intrusion-Extrusion of Aqueous Electrolyte Solutions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7321-7328.	1.5	49
15	Water intrusion-extrusion experiments in ZIF-8: impacts of the shape and particle size on the energetic performances. <i>RSC Advances</i> , 2015, 5, 31514-31518.	1.7	48
16	Energetic Performances of γ -ZIF-71 Aqueous Solution-Systems: A Perfect Shock-Absorber with Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21316-21322.	1.5	47
17	Synthesis and adsorption properties of ZIF-76 isomorphs. <i>Microporous and Mesoporous Materials</i> , 2012, 153, 1-7.	2.2	43
18	Impacts of the Imidazolate Linker Substitution (CH ₃ , Cl, or Br) on the Structural and Adsorptive Properties of ZIF-8. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26945-26955.	1.5	40

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19	Assessment of the energetic performances of various ZIFs with SOD or RHO topology using high pressure water intrusion/extrusion experiments. Dalton Transactions, 2016, 45, 4392-4400.	1.6	39
20	New Insights into the Hydrogen Bond Network in Al-MIL-53 and Ga-MIL-53. Journal of Physical Chemistry C, 2014, 118, 22021-22029.	1.5	34
21	Polarized-Dependent IR ATR Study for the Structural Characterization of Solid-State Phosphonates: A Case of Aluminum (4-Carboxyphenyl)methylphosphonate. Chemistry of Materials, 2003, 15, 1950-1956.	3.2	29
22	Energetic Performances of ZIF-8 Derivatives: Impact of the Substitution (Me, Cl, or Br) on Imidazolate Linker. Journal of Physical Chemistry C, 2018, 122, 3846-3855.	1.5	24
23	Porosity control in pre-ceramic molecular precursor-derived GaN based materials. Journal of Materials Chemistry, 2004, 14, 1017.	6.7	23
24	Template assisted design of microporous gallium nitride materials. Chemical Communications, 2003, , 730.	2.2	21
25	Phase Transformations of Metal-Organic Frameworks MAF-6 and ZIF-71 during Intrusion/Extrusion Experiments. Journal of Physical Chemistry C, 2019, 123, 4319-4328.	1.5	21
26	Novel aluminium phenyl, benzyl, and bromobenzylphosphonates: structural characterisation and hydration/dehydration reactions. Journal of Materials Chemistry, 2000, 10, 1593-1601.	6.7	17
27	Mechanism of water adsorption in the large pore form of the gallium-based MIL-53 metal-organic framework. Microporous and Mesoporous Materials, 2016, 222, 145-152.	2.2	14
28	New functionalized MIL-53(In) solids: syntheses, characterization, sorption, and structural flexibility. RSC Advances, 2019, 9, 1918-1928.	1.7	13
29	Exploratory Studies on the Synthesis of Unsymmetrically Substituted Diacetylenes Bearing Trialkoxysilyl Groups and Development of a Method for the Preparation of 1-Lithio-4-(2,8,9-trioxa-5-aza-1-silabicyclo[3.3.3]undecanyl)-1,3-butadiyne: A Synthetic and Mechanistic Aspects. Organometallics, 2000, 19, 2516-2525.	1.1	12
30	²⁷ Al MAS NMR and XAS cross-study of the aluminophosphonate Al(OH)(O ₃ PC ₆ H ₅) ^{Electronic supplementary information (ESI) available: X-ray powder diffraction pattern of Al(OH)(O₃PC₆H₅). See http://www.rsc.org/suppdata/nj/b1/b106545a/. New Journal of Chemistry, 2001, 25, 1365-1367.}	1.4	12
31	Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and micro-sized crystals of MIL-101(Cr): static and dynamic gravimetric studies. Environmental Science and Pollution Research, 2017, 24, 26562-26573.	2.7	12
32	One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications. Microporous and Mesoporous Materials, 2015, 210, 194-198.	2.2	8
33	Synthesis of EMT/FAU-type zeolite nanocrystal aggregates in high yield and crystalline form. Comptes Rendus Chimie, 2016, 19, 475-485.	0.2	8
34	Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta. Adsorption, 2017, 23, 101-112.	1.4	8
35	Synthesis, Structure, and Characterization of [Al(¹ / ₄ -NH ₂ Et)(¹ / ₄ -NEt)2Si(NH ₂)2]2 (R = Me, Et). European Journal of Inorganic Chemistry, 2003, 2003, 1193-1196.	1.0	5
36	Synthesis of a new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. Microporous and Mesoporous Materials, 2008, 114, 82-92.	2.2	4

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37	Adsorption of Polychlorinated Aromatics in EMT-Type Zeolites: A Combined Experimental-Simulation Approach. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12731-12741.	1.5	4
38	Physico-Chemical Characterizations of Poly(vinylidene fluoride)/Cu ₃ (BTC) ₂ Composite Membranes Prepared by In Situ Crystal Growth. <i>Polymer Engineering and Science</i> , 2020, 60, 464-473.	1.5	2
39	Solvothermal Synthesis, Structure, Fluorescence and Magnetism Properties of a Novel 3D Metal-Organic Framework Based on Tetranuclear Copper Secondary Building Units. <i>Advanced Materials Research</i> , 0, 834-836, 543-549.	0.3	1
40	Template Assisted Design of Microporous Gallium Nitride Materials.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
41	A new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. <i>Studies in Surface Science and Catalysis</i> , 2008, , 289-292.	1.5	0