

Gerald Chaplais

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40
papers

1,670
citations

22
h-index

40
g-index

41
ext. papers

1,821
ext. citations

4.3
avg, IF

4.31
L-index

#	Paper	IF	Citations
40	Adsorption of CO(2), CH(4), and N(2) on zeolitic imidazolate frameworks: experiments and simulations. <i>Chemistry - A European Journal</i> , 2010 , 16, 1560-71	4.8	303
39	Comparison of the behavior of metal-organic frameworks and zeolites for hydrocarbon separations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8115-26	16.4	218
38	Metal-Organic Framework Materials for Desulfurization by Adsorption. <i>Energy & Fuels</i> , 2012 , 26, 4953-4960	4.1	107
37	Separation of C6 Paraffins Using Zeolitic Imidazolate Frameworks: Comparison with Zeolite 5A. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4692-4702	3.9	101
36	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	5.3	87
35	Amino-modified MIL-68(In) with enhanced hydrogen and carbon dioxide sorption enthalpy. <i>Microporous and Mesoporous Materials</i> , 2012 , 157, 75-81	5.3	68
34	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, 4888-91	3.6	65
33	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	3.8	64
32	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	5.2	62
31	Temperature-Induced Structural Transitions in the Gallium-Based MIL-53 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8180-8188	3.8	52
30	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5241-5	3.6	47
29	Water Adsorption in Flexible Gallium-Based MIL-53 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5397-5405	3.8	44
28	MIL-53(Al) under reflux in water: Formation of AlO(OH) shell and H ₂ BDC molecules intercalated into the pores. <i>Microporous and Mesoporous Materials</i> , 2014 , 183, 156-161	5.3	42
27	Energetic Performances of ZIF-71 Aqueous Solution Systems: A Perfect Shock-Absorber with Water. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21316-21322	3.8	37
26	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	3.8	37
25	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	3.7	33
24	Synthesis and adsorption properties of ZIF-76 isomorphs. <i>Microporous and Mesoporous Materials</i> , 2012 , 153, 1-7	5.3	33

23	Polarized-Dependent IR ATR Study for the Structural Characterization of Solid-State Phosphonates: Case of Aluminum (4-Carboxyphenyl)methylphosphonate. <i>Chemistry of Materials</i> , 2003 , 15, 1950-1956	9.6	29
22	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	3.8	28
21	New Insights into the Hydrogen Bond Network in Al-MIL-53 and Ga-MIL-53. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22021-22029	3.8	25
20	Assessment of the energetic performances of various ZIFs with SOD or RHO topology using high pressure water intrusion-extrusion experiments. <i>Dalton Transactions</i> , 2016 , 45, 4392-400	4.3	23
19	Porosity control in pre-ceramic molecular precursor-derived GaN based materials. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1017		23
18	Template assisted design of microporous gallium nitride materials. <i>Chemical Communications</i> , 2003 , 730-518	5.18	18
17	Energetic Performances of ZIF-8 Derivatives: Impact of the Substitution (Me, Cl, or Br) on Imidazolate Linker. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3846-3855	3.8	16
16	Phase Transformations of Metal-Organic Frameworks MAF-6 and ZIF-71 during Intrusion-Extrusion Experiments. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4319-4328	3.8	12
15	Mechanism of water adsorption in the large pore form of the gallium-based MIL-53 metal-organic framework. <i>Microporous and Mesoporous Materials</i> , 2016 , 222, 145-152	5.3	12
14	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: Synthetic and Mechanistic Aspects. <i>Organometallics</i> , 2000 , 19, 2516-2525	3.8	12
13	Novel aluminium phenyl, benzyl, and bromobenzylphosphonates: structural characterisation and hydration-dehydration reactions. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1593-1601		12
12	²⁷ Al MAS NMR and XAS cross-study of the aluminophosphate Al(OH)(O ₃ PC ₆ H ₅). <i>New Journal of Chemistry</i> , 2001 , 25, 1365-1367	3.6	11
11	New functionalized MIL-53(In) solids: syntheses, characterization, sorption, and structural flexibility.. <i>RSC Advances</i> , 2019 , 9, 1918-1928	3.7	8
10	Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and microsized crystals of MIL-101(Cr): static and dynamic gravimetric studies. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 26562-26573	5.1	7
9	Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta. <i>Adsorption</i> , 2017 , 23, 101-112.	2.6	6
8	Synthesis of EMT/FAU-type zeolite nanocrystal aggregates in high yield and crystalline form. <i>Comptes Rendus Chimie</i> , 2016 , 19, 475-485	2.7	6
7	One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications. <i>Microporous and Mesoporous Materials</i> , 2015 , 210, 194-198	5.3	6
6	Synthesis, Structure, and Characterization of [RAl(ENH ₂)(EN ₂) ₂ Si(NH ₂) ₂] (R = Me, Et). <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 1193-1196	2.3	5

5	Synthesis of a new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 82-92	5.3	4
4	Adsorption of Polychlorinated Aromatics in EMT-Type Zeolites: A Combined Experimental-Simulation Approach. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12731-12741	3.8	4
3	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	2.3	2
2	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> , 2013 , 834-836, 543-549	0.5	1
1	A new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. <i>Studies in Surface Science and Catalysis</i> , 2008 , 289-292	1.8	