Grald Chaplais

List of Publications by Year in Descending Order

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	Physico-Chemical Characterizations of Poly(vinylidene fluoride)/Cu3(BTC)2 Composite Membranes Prepared by In Situ Crystal Growth. *Polymer Engineering and Science*, **2020**, 60, 464-473	2.3	2
39	Phase Transformations of Metal−Organic Frameworks MAF-6 and ZIF-71 during Intrusion−Extrusion Experiments. *Journal of Physical Chemistry C*, **2019**, 123, 4319-4328	3.8	12
38	New functionalized MIL-53(In) solids: syntheses, characterization, sorption, and structural flexibility.. *RSC Advances*, **2019**, 9, 1918-1928	3.7	8
37	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	3.8	16
36	Impacts of the Imidazolate Linker Substitution (CH3, Cl, or Br) on the Structural and Adsorptive Properties of ZIF-8. *Journal of Physical Chemistry C*, **2018**, 122, 26945-26955	3.8	28
35	Adsorption of Polychlorinated Aromatics in EMT-Type Zeolites: A Combined Experimental-Simulation Approach. *Journal of Physical Chemistry C*, **2018**, 122, 12731-12741	3.8	4
34	Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta. *Adsorption*, **2017**, 23, 101-112	2.6	6
33	Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and microsized crystals of MIL-101(Cr): static and dynamic gravimetric studies. *Environmental Science and Pollution Research*, **2017**, 24, 26562-26573	5.1	7
32	Assessment of the energetic performances of various ZIFs with SOD or RHO topology using high pressure water intrusion-extrusion experiments. *Dalton Transactions*, **2016**, 45, 4392-400	4.3	23
31	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	5.3	12
30	Synthesis of EMT/FAU-type zeolite nanocrystal aggregates in high yield and crystalline form. *Comptes Rendus Chimie*, **2016**, 19, 475-485	2.7	6
29	Water intrusion−extrusion experiments in ZIF-8: impacts of the shape and particle size on the energetic performances. *RSC Advances*, **2015**, 5, 31514-31518	3.7	33
28	One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications. *Microporous and Mesoporous Materials*, **2015**, 210, 194-198	5.3	6
27	MIL-53(Al) under reflux in water: Formation of γ-AlO(OH) shell and H2BDC molecules intercalated into the pores. *Microporous and Mesoporous Materials*, **2014**, 183, 156-161	5.3	42
26	New Insights into the Hydrogen Bond Network in Al-MIL-53 and Ga-MIL-53. *Journal of Physical Chemistry C*, **2014**, 118, 22021-22029	3.8	25
25	Water Adsorption in Flexible Gallium-Based MIL-53 Metal−Organic Framework. *Journal of Physical Chemistry C*, **2014**, 118, 5397-5405	3.8	44
24	Energetic Performances of ZIF-71−Aqueous Solution Systems: A Perfect Shock-Absorber with Water. *Journal of Physical Chemistry C*, **2014**, 118, 21316-21322	3.8	37

23	Versatile Energetic Behavior of ZIF-8 upon High Pressure Intrusion□Extrusion of Aqueous Electrolyte Solutions. *Journal of Physical Chemistry C*, **2014**, 118, 7321-7328	3.8	37
22	Energetic performances of the metal-organic framework ZIF-8 obtained using high pressure water intrusion-extrusion experiments. *Physical Chemistry Chemical Physics*, **2013**, 15, 4888-91	3.6	65
21	Temperature-Induced Structural Transitions in the Gallium-Based MIL-53 Metal□Organic Framework. *Journal of Physical Chemistry C*, **2013**, 117, 8180-8188	3.8	52
20	The separation of xylene isomers by ZIF-8: A demonstration of the extraordinary flexibility of the ZIF-8 framework. *Microporous and Mesoporous Materials*, **2013**, 173, 1-5	5.3	87
19	Solvothermal Synthesis, Structure, Fluorescence and Magnetism Properties of a Novel 3D Metal-Organic Framework Based on Tetranuclear Copper Secondary Building Units. *Advanced Materials Research*, **2013**, 834-836, 543-549	0.5	1
18	Synthesis and adsorption properties of ZIF-76 isomorphs. *Microporous and Mesoporous Materials*, **2012**, 153, 1-7	5.3	33
17	Amino-modified MIL-68(In) with enhanced hydrogen and carbon dioxide sorption enthalpy. *Microporous and Mesoporous Materials*, **2012**, 157, 75-81	5.3	68
16	Metal□Organic Framework Materials for Desulfurization by Adsorption. *Energy & Fuels*, **2012**, 26, 4953-4960	4.1	107
15	Adsorption and Separation of Xylene Isomers: CPO-27-Ni vs HKUST-1 vs NaY. *Journal of Physical Chemistry C*, **2012**, 116, 21844-21855	3.8	64
14	Separation of C6 Paraffins Using Zeolitic Imidazolate Frameworks: Comparison with Zeolite 5A. *Industrial & Engineering Chemistry Research*, **2012**, 51, 4692-4702	3.9	101
13	Comparison of the behavior of metal-organic frameworks and zeolites for hydrocarbon separations. *Journal of the American Chemical Society*, **2012**, 134, 8115-26	16.4	218
12	Investigation of Acid Centers in MIL-53(Al, Ga) for Br□sted-Type Catalysis: In Situ FTIR and Ab Initio Molecular Modeling. *ChemCatChem*, **2010**, 2, 1235-1238	5.2	62
11	Adsorption of CO(2), CH(4), and N(2) on zeolitic imidazolate frameworks: experiments and simulations. *Chemistry - A European Journal*, **2010**, 16, 1560-71	4.8	303
10	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. *Physical Chemistry Chemical Physics*, **2009**, 11, 5241-5	3.6	47
9	A new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. *Studies in Surface Science and Catalysis*, **2008**, 289-292	1.8	
8	Synthesis of a new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. *Microporous and Mesoporous Materials*, **2008**, 114, 82-92	5.3	4
7	Porosity control in pre-ceramic molecular precursor-derived GaN based materials. *Journal of Materials Chemistry*, **2004**, 14, 1017		23
6	Synthesis, Structure, and Characterization of [RAl(□NHEt)(□NEt)2Si(NHEt)]2 (R = Me, Et). *European Journal of Inorganic Chemistry*, **2003**, 2003, 1193-1196	2.3	5

5	Polarized-Dependent IR ATR Study for the Structural Characterization of Solid-State Phosphonates: Case of Aluminum (4-Carboxyphenyl)methylphosphonate. *Chemistry of Materials*, **2003**, 15, 1950-1956	9.6	29
4	Template assisted design of microporous gallium nitride materials. *Chemical Communications*, **2003**, 730-731	5.18	18
3	27Al MAS NMR and XAS cross-study of the aluminophosphonate Al(OH)(O3PC6H5). *New Journal of Chemistry*, **2001**, 25, 1365-1367	3.6	11
2	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. *Organometallics*, **2000**, 19, 2516-2525	3.8	12
1	Novel aluminium phenyl, benzyl, and bromobenzylphosphonates: structural characterisation and hydration–dehydration reactions. *Journal of Materials Chemistry*, **2000**, 10, 1593-1601		12