GÃ©rald Chaplais

List of Publications by Year
in descending order

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41	2,030	304368	315357
papers	citations	22 h-index	38 g-index

41	41	41	2682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physicoâ€€Chemical Characterizations of Poly(vinylidene fluoride)/Cu 3 (BTC) 2 Composite Membranes Prepared by In Situ Crystal Growth. Polymer Engineering and Science, 2020, 60, 464-473.	1.5	2
2	Phase Transformations of Metalâ€“Organic Frameworks MAF-6 and ZIF-71 during Intrusionâ€“Extrusion Experiments. Journal of Physical Chemistry C, 2019, 123, 4319-4328.	1.5	21
3	New functionalized MIL-53(In) solids: syntheses, characterization, sorption, and structural flexibility. RSC Advances, 2019, 9, 1918-1928.	1.7	13
4	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
5	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.	1.5	40
6	Adsorption of Polychlorinated Aromatics in EMT-Type Zeolites: A Combined Experimental-Simulation Approach. Journal of Physical Chemistry C, 2018, 122, 12731-12741.	1.5	4
7	Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta. Adsorption, 2017, 23, 101-112.	1.4	8
8	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.	2.7	12
9	Assessment of the energetic performances of various ZIFs with SOD or RHO topology using high pressure water intrusionâ€“extrusion experiments. Dalton Transactions, 2016, 45, 4392-4400.	1.6	39
10	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
11	Synthesis of EMT/FAU-type zeolite nanocrystal aggregates in high yield and crystalline form. Comptes Rendus Chimie, 2016, 19, 475-485.	0.2	8
12	One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications. Microporous and Mesoporous Materials, 2015, 210, 194-198.	2.2	8
13	Water intrusionâ€“extrusion experiments in ZIF-8: impacts of the shape and particle size on the energetic performances. RSC Advances, 2015, 5, 31514-31518.	1.7	48
14	MIL-53(Al) under reflux in water: Formation of Î³-AlO(OH) shell and H2BDC molecules intercalated into the pores. Microporous and Mesoporous Materials, 2014, 183, 156-161.	2.2	51
15	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
16	Water Adsorption in Flexible Gallium-Based MIL-53 Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2014, 118, 5397-5405.	1.5	55
17	Energetic Performances of â€œZIF-71â€“Aqueous Solutionâ€•Systems: A Perfect Shock-Absorber with Water. Journal of Physical Chemistry C, 2014, 118, 21316-21322.	1.5	47
18	Versatile Energetic Behavior of ZIF-8 upon High Pressure Intrusionâ€“Extrusion of Aqueous Electrolyte Solutions. Journal of Physical Chemistry C, 2014, 118, 7321-7328.	1.5	49

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19	Energetic performances of the metalâ€“organic framework ZIF-8 obtained using high pressure water intrusionâ€“extrusion experiments. Physical Chemistry Chemical Physics, 2013, 15, 4888.	1.3	85
20	Temperature-Induced Structural Transitions in the Gallium-Based MIL-53 Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2013, 117, 8180-8188.	1.5	59
21	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.	2.2	110
22	Metalâ€“Organic Framework Materials for Desulfurization by Adsorption. Energy & Fuels, 2012, 26, 4953-4960.	2.5	119
23	Adsorption and Separation of Xylene Isomers: CPO-27-Ni vs HKUST-1 vs NaY. Journal of Physical Chemistry C, 2012, 116, 21844-21855.	1.5	72
24	Separation of C‹sub›6‹/sub› Paraffins Using Zeolitic Imidazolate Frameworks: Comparison with Zeolite 5A. Industrial & Engineering Chemistry Research, 2012, 51, 4692-4702.	1.8	130
25	Comparison of the Behavior of Metalâ€“Organic Frameworks and Zeolites for Hydrocarbon Separations. Journal of the American Chemical Society, 2012, 134, 8115-8126.	6.6	253
26	Synthesis and adsorption properties of ZIF-76 isomorphs. Microporous and Mesoporous Materials, 2012, 153, 1-7.	2.2	43
27	Amino-modified MIL-68(In) with enhanced hydrogen and carbon dioxide sorption enthalpy. Microporous and Mesoporous Materials, 2012, 157, 75-81.	2.2	88
28	Investigation of Acid Centers in MILâ€53(Al, Ga) for BrÃ¸nstedâ€Type Catalysis: Inâ€…Situ FTIR and Abâ€…Initio Molecular Modeling. ChemCatChem, 2010, 2, 1235-1238.	1.8	72
29	Adsorption of CO‹sub›2‹/sub›, CH‹sub›4‹/sub›, and N‹sub›2‹/sub› on Zeolitic Imidazolate Frameworks: Experiments and Simulations. Chemistry - A European Journal, 2010, 16, 1560-1571.	1.7	344
30	IM-19: a new flexible microporous gallium based-MOF framework with pressure- and temperature-dependent openings. Physical Chemistry Chemical Physics, 2009, 11, 5241.	1.3	54
31	Synthesis of a new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. Microporous and Mesoporous Materials, 2008, 114, 82-92.	2.2	4
32	A new 2D fluorogallophosphate intercalated by double organic sheets of morpholine. Studies in Surface Science and Catalysis, 2008, , 289-292.	1.5	0
33	Porosity control in pre-ceramic molecular precursor-derived GaN based materials. Journal of Materials Chemistry, 2004, 14, 1017.	6.7	23
34	Synthesis, Structure, and Characterization of [RAl(Î¼-NHEt)(Î¼-NEt)2Si(NHEt)]2 (R = Me, Et). European Journal of Inorganic Chemistry, 2003, 2003, 1193-1196.	1.0	5
35	Template Assisted Design of Microporous Gallium Nitride Materials.. ChemInform, 2003, 34, no.	0.1	0
36	Polarized-Dependent IR ATR Study for the Structural Characterization of Solid-State Phosphonates:Â Case of Aluminum (4-Carboxyphenyl)methylphosphonate. Chemistry of Materials, 2003, 15, 1950-1956.	3.2	29

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37	Template assisted design of microporous gallium nitride materials. Chemical Communications, 2003, , 730.	2.2	21
38	27Al MAS NMR and XAS cross-study of the aluminophosphonate Al(OH)(O3PC6H5)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
39	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:Â Synthetic and Mechanistic Aspects. Organometallics, 2000, 19, 2516-2525.	1.1	12
40	Novel aluminium phenyl, benzyl, and bromobenzylphosphonates: structural characterisation and hydrationâ€“dehydration reactions. Journal of Materials Chemistry, 2000, 10, 1593-1601.	6.7	17
41	Solvothermal Synthesis, Structure, Fluorescence and Magnetism Properties of a Novel 3D Metal-Organic Framework Based on Tetranuclear Copper Secondary Building Units. Advanced Materials Research, 0, 834-836, 543-549.	0.3	1