

Frederico Alabarse

List of Publications by Year in descending order

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33
docs citations

33
times ranked

797
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ FTIR analyses of bentonite under high-pressure. Applied Clay Science, 2011, 51, 202-208.	5.2	125
2	Freezing of Water Confined at the Nanoscale. Physical Review Letters, 2012, 109, 035701.	7.8	125
3	Single-crystal diffraction at the high-pressure Indo-Italian beamline Xpress at Elettra, Trieste. Journal of Synchrotron Radiation, 2020, 27, 222-229.	2.4	31
4	AlPO ₄ -54â€“AlPO ₄ -8 Structural Phase Transition and Amorphization under High Pressure. Journal of Physical Chemistry C, 2015, 119, 7771-7779.	3.1	26
5	New high-pressure/low-temperature set-up available at the AILES beamline. Vibrational Spectroscopy, 2016, 86, 17-23.	2.2	25
6	Modulating the H-bond strength by varying the temperature for the high pressure synthesis of nitrogen rich carbon nanothreads. Nanoscale, 2020, 12, 5233-5242.	5.6	25
7	Effect of H ₂ O on the Pressure-Induced Amorphization of AlPO ₄ -54. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3651-3663.	3.1	24
8	Mechanism of H ₂ O Insertion and Chemical Bond Formation in AlPO ₄ -54. <i>Journal of the American Chemical Society</i> , 2015, 137, 584-587.	13.7	24
9	New experimental set-ups for studying nanoconfined water on the AILES beamline at SOLEIL. Vibrational Spectroscopy, 2014, 75, 154-161.	2.2	22
10	High-Pressure Phase Transition, Pore Collapse, and Amorphization in the Siliceous 1D Zeolite, TON. Journal of Physical Chemistry C, 2017, 121, 4283-4292.	3.1	20
11	Synthesis of double core chromophore-functionalized nanothreads by compressing azobenzene in a diamond anvil cell. Chemical Science, 2021, 12, 7048-7057.	7.4	19
12	Confined H ₂ O molecules as local probes of pressure-induced amorphisation in faujasite. Physical Chemistry Chemical Physics, 2014, 16, 12202.	2.8	16
13	Anomalous Compressibility and Amorphization in AlPO ₄ -17, the Oxide with the Highest Negative Thermal Expansion. Journal of Physical Chemistry C, 2017, 121, 6852-6863.	3.1	13
14	Vibrational dynamics of confined supercooled water. Journal of Chemical Physics, 2019, 150, 224504.	3.0	13
15	Structureâ€“Reactivity Relationship in the High-Pressure Formation of Double-Core Carbon Nanothreads from Azobenzene Crystal. Journal of Physical Chemistry C, 2021, 125, 17174-17182.	3.1	13
16	High-Pressure Synthesis of 1D Low-Bandgap Polymers Embedded in Diamond-like Carbon Nanothreads. Chemistry of Materials, 2022, 34, 2422-2428.	6.7	13
17	Towards custom built double core carbon nanothreads using stilbene and pseudo-stilbene type systems. Nanoscale, 2022, 14, 4614-4625.	5.6	11
18	Insertion and Confinement of H ₂ O in Hydrophobic Siliceous Zeolites at High Pressure. Journal of Physical Chemistry C, 2019, 123, 17432-17439.	3.1	8

#	ARTICLE	IF	CITATIONS
19	Implementation of a national metrology network of radionuclides used in nuclear medicine. Applied Radiation and Isotopes, 2006, 64, 1114-1118.	1.5	7
20	Proficiency tests in the determination of activity of radionuclides in radiopharmaceutical products measured by nuclear medicine services in 8 years of comparison programmes in Brazil. Applied Radiation and Isotopes, 2008, 66, 981-987.	1.5	6
21	Proficiency test for radioactivity measurements in nuclear medicine. Journal of Radioanalytical and Nuclear Chemistry, 2009, 281, 3-6.	1.5	6
22	Effect of H ₂ O on the Pressure-Induced Amorphization of Hydrated AlPO ₄ -17. Molecules, 2019, 24, 2864.	3.8	6
23	Different Water Networks Confined in Unidirectional Hydrophilic Nanopores and Transitions with Temperature. Journal of Physical Chemistry C, 2021, 125, 14378-14393.	3.1	6
24	High temperature and high pressure X-ray diffraction study of SAPO-37: effect of chemical composition on the mechanical properties of faujasite-type materials. RSC Advances, 2013, 3, 9911.	3.6	5
25	An in-situ x-ray diffraction and infrared spectroscopic study of the dehydration of AlPO ₄ -54. Solid State Sciences, 2020, 108, 106378.	3.2	5
26	High-Pressure Synthesis and Gas-Sensing Tests of 1-D Polymer/Aluminophosphate Nanocomposites. ACS Applied Materials & Interfaces, 2021, 13, 27237-27244.	8.0	5
27	Anomalous Volume Changes in the Siliceous Zeolite Theta-1 TON due to Hydrogen Insertion under High-Pressure, High-Temperature Conditions. Journal of Physical Chemistry Letters, 2021, 12, 5059-5063.	4.6	4
28	Structural Insight of MOFs under Combined Mechanical and Adsorption Stimuli. Angewandte Chemie - International Edition, 2022, 61, .	13.8	4
29	Pressure dependence of room-temperature structural properties of CaAl ₂ Si ₂ . Journal of Physics Condensed Matter, 2020, 32, 365403.	1.8	3
30	Structural Insight of MOFs under Combined Mechanical and Adsorption Stimuli. Angewandte Chemie, 2022, 134, .	2.0	2
31	Structural Metastability and Fermi Surface Topology of SrAl ₂ Si ₂ . Inorganic Chemistry, 2021, 60, 18652-18661.	4.0	2
32	Compressibility, Phase Transition, and Argon Insertion in the Siliceous Zeolite Mobil-Twelve at High Pressure. Journal of Physical Chemistry C, 2022, 126, 2877-2884.	3.1	1
33	Mineral inclusions as models to characterize deviatoric stress in single crystals. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C536-C536.	0.1	0