

Alvaro Lobato

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

125
citations

1307594

7
h-index

1281871

11
g-index

20
all docs

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docs citations

20
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Stress-Redox Equivalence: A Chemical Link between Pressure and Electronegativity in Inorganic Crystals. <i>Inorganic Chemistry</i> , 2020, 59, 5281-5291.	4.0	21
2	Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO ₃ Perovskite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 107-119.	3.1	17
3	Highs and Lows of Bond Lengths: Is There Any Limit?. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17028-17036.	13.8	13
4	Chemical pressure—chemical knowledge: squeezing bonds and lone pairs within the valence shell electron pair repulsion model. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12585-12596.	2.8	12
5	Mechanical Response of Polymer Epoxy/BMI Composites with Graphene and a Boron Nitride Monolayer from First Principles. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1052-1059.	4.4	10
6	The self-absorption phenomenon in quantitative Raman spectroscopy and how to correct its effects. <i>Microchemical Journal</i> , 2018, 139, 134-138.	4.5	9
7	Local, solvation pressures and conformational changes in ethylenediamine aqueous solutions probed using Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26192-26198.	2.8	8
8	Theoretical (DFT) and experimental (Raman and FTIR) spectroscopic study on communic acids, main components of fossil resins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117405.	3.9	8
9	Comment on “Uncommon structural and bonding properties in Ag ₁₆ B ₄ O ₁₀ ” by A. Kovalevskiy, C. Yin, J. Nuss, U. Wedig, and M. Jansen, <i>Chem. Sci.</i> , 2020, 11, 962. <i>Chemical Science</i> , 2021, 12, 13588-13592.	7.4	6
10	Highs and Lows of Bond Lengths: Is There Any Limit?. <i>Angewandte Chemie</i> , 2021, 133, 17165-17173.	2.0	5
11	Infrared spectroscopic study of the formation of fossil resin analogs with temperature using trans-communic acid as precursor. <i>Microchemical Journal</i> , 2018, 141, 294-300.	4.5	4
12	Computational Modeling of Tensile Stress Effects on the Structure and Stability of Prototypical Covalent and Layered Materials. <i>Nanomaterials</i> , 2019, 9, 1483.	4.1	3
13	Raman Spectroscopy, a Useful Tool to Study Nuclear Materials. , 0, , .		2
14	Controlling the off-center positions of anions through thermodynamics and kinetics in flexible perovskite-like materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4491-4499.	2.8	2
15	Compressing the Channels in the Crystal Structure of Copper Squarate Metal-Organic Framework. <i>Solids</i> , 2022, 3, 374-384.	2.4	2
16	Anharmonicity effects in the frictionlike mode of graphite. <i>Physical Review B</i> , 2016, 93, .	3.2	1
17	Temperature and pressure-induced strains in anhydrous iron trifluoride polymorphs. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2825-2835.	2.8	1
18	The structures of inorganic crystals: A rational explanation from the chemical pressure approach and the anions in metallic matrices model. , 2023, , 238-261.		1

#	ARTICLE	IF	CITATIONS
19	Temperature effects on the friction-like mode of graphite. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	1.4	0
20	Structural and Electronic Effect Driven Distortions in Visible Light Absorbing Polar Materials A_2VO_{11} ($\text{A} = \text{Sr}, \text{Pb}$). <i>Journal of Physical Chemistry C</i> , 2022, 126, 8047-8055.	3.1	0