# Alvaro Lobato

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3735532/publications.pdf

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|---|---|---|---|
| 20 papers | 125 citations | 1307594 7 h-index | 1281871 11 g-index |
| 20 all docs | 20 docs citations | 20 times ranked | 162 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The structures of inorganic crystals: A rational explanation from the chemical pressure approach and the anions in metallic matrices model. , 2023, , 238-261. | | 1 |
| 2 | Structural and Electronic Effect Driven Distortions in Visible Light Absorbing Polar Materials ATa<sub>2</sub>V<sub>2</sub>O<sub>11</sub> (A = Sr, Pb). Journal of Physical Chemistry C, 2022, 126, 8047-8055. | 3.1 | 0 |
| 3 | Compressing the Channels in the Crystal Structure of Copper Squarate Metal-Organic Framework. Solids, 2022, 3, 374-384. | 2.4 | 2 |
| 4 | Temperature and pressure-induced strains in anhydrous iron trifluoride polymorphs. Physical Chemistry Chemical Physics, 2021, 23, 2825-2835. | 2.8 | 1 |
| 5 | Controlling the off-center positions of anions through thermodynamics and kinetics in flexible perovskite-like materials. Physical Chemistry Chemical Physics, 2021, 23, 4491-4499. | 2.8 | 2 |
| 6 | Mechanical Response of Polymer Epoxy/BMI Composites with Graphene and a Boron Nitride Monolayer from First Principles. ACS Applied Polymer Materials, 2021, 3, 1052-1059. | 4.4 | 10 |
| 7 | Highs and Lows of Bond Lengths: Is There Any Limit?. Angewandte Chemie, 2021, 133, 17165-17173. | 2.0 | 5 |
| 8 | Highs and Lows of Bond Lengths: Is There Any Limit?. Angewandte Chemie - International Edition, 2021, 60, 17028-17036. | 13.8 | 13 |
| 9 | Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO<sub>3</sub> Perovskite. Journal of Physical Chemistry C, 2021, 125, 107-119. | 3.1 | 17 |
| 10 | Comment on â€œUncommon structural and bonding properties in Ag<sub>16</sub>B<sub>4</sub>O<sub>10</sub>â€•by A. Kovalevskiy, C. Yin, J. Nuss, U. Wedig, and M. Jansen, Chem. Sci., 2020, 11, 962. Chemical Science, 2021, 12, 13588-13592. | 7.4 | 6 |
| 11 | Theoretical (DFT) and experimental (Raman and FTIR) spectroscopic study on communic acids, main components of fossil resins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117405. | 3.9 | 8 |
| 12 | Generalized Stress-Redox Equivalence: A Chemical Link between Pressure and Electronegativity in Inorganic Crystals. Inorganic Chemistry, 2020, 59, 5281-5291. | 4.0 | 21 |
| 13 | Computational Modeling of Tensile Stress Effects on the Structure and Stability of Prototypical Covalent and Layered Materials. Nanomaterials, 2019, 9, 1483. | 4.1 | 3 |
| 14 | Chemical pressureâ€“chemical knowledge: squeezing bonds and lone pairs within the valence shell electron pair repulsion model. Physical Chemistry Chemical Physics, 2019, 21, 12585-12596. | 2.8 | 12 |
| 15 | The self-absorption phenomenon in quantitative Raman spectroscopy and how to correct its effects. Microchemical Journal, 2018, 139, 134-138. | 4.5 | 9 |
| 16 | Infrared spectroscopic study of the formation of fossil resin analogs with temperature using trans-communic acid as precursor. Microchemical Journal, 2018, 141, 294-300. | 4.5 | 4 |
| 17 | Temperature effects on the friction-like mode of graphite. Theoretical Chemistry Accounts, 2017, 136, 1. | 1.4 | 0 |
| 18 | Local, solvation pressures and conformational changes in ethylenediamine aqueous solutions probed using Raman spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 26192-26198. | 2.8 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Anharmonicity effects in the frictionlike mode of graphite. Physical Review B, 2016, 93, . | 3.2 | 1 |
| 20 | Raman Spectroscopy, a Useful Tool to Study Nuclear Materials. , 0, , . | | 2 |