

Shanti Deemyad

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

505
citations

840776

11
h-index

794594

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19
all docs

19
docs citations

19
times ranked

677
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Superconducting Phase Diagram of Li Metal in Nearly Hydrostatic Pressures up to 67 ÅGPa. Physical Review Letters, 2003, 91, 167001. | 7.8 | 176 |
| 2 | Quantum and isotope effects in lithium metal. Science, 2017, 356, 1254-1259. | 12.6 | 59 |
| 3 | High Pressure Melting of Lithium. Physical Review Letters, 2012, 109, 185702. | 7.8 | 54 |
| 4 | Effects of Nonhydrostatic Stress on Structural and Optoelectronic Properties of Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 3457-3465. | 4.6 | 53 |
| 5 | High-pressure superconducting phase diagram of ${}^6\text{Li}$: Isotope effects in dense lithium. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 60-64. | 7.1 | 27 |
| 6 | Evidence from Fermi surface analysis for the low-temperature structure of lithium. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5389-5394. | 7.1 | 22 |
| 7 | Perovskites with a Twist: Strong In^{1+} Off-Centering in the Mixed-Valent CsInX_3 ($X = \text{Cl}, \text{Br}$). Chemistry of Materials, 2019, 31, 9554-9566. | 6.7 | 22 |
| 8 | Piezochromism and structural and electronic properties of benz[a]anthracene under pressure. Physical Chemistry Chemical Physics, 2017, 19, 6216-6223. | 2.8 | 19 |
| 9 | Boundaries for martensitic transition of ${}^7\text{Li}$ under pressure. Nature Communications, 2015, 6, 8030. | 12.8 | 16 |
| 10 | Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites $\text{Hg}_3\text{Te}_2\text{X}_2$ ($X = \text{Cl}, \text{Br}$). Nature Communications, 2021, 12, 1509. | 12.8 | 14 |
| 11 | Deuterium Isotope Effects in Polymerization of Benzene under Pressure. Journal of Physical Chemistry Letters, 2017, 8, 1856-1864. | 4.6 | 12 |
| 12 | Pressure-Induced Superconductivity and Flattened Se_6 Rings in the Wide Band Gap Semiconductor $\text{Cu}_2\text{I}_2\text{Se}_6$. Journal of the American Chemical Society, 2019, 141, 15174-15182. | 13.7 | 9 |
| 13 | Pressure-Induced Superconductivity in the Wide-Band-Gap Semiconductor $\text{Cu}_2\text{Br}_2\text{Se}_6$ with a Robust Framework. Chemistry of Materials, 2020, 32, 6237-6246. | 6.7 | 6 |
| 14 | Fermi surface studies of the low-temperature structure of sodium. Physical Review B, 2020, 101, . | 3.2 | 5 |
| 15 | Probing quantum effects in lithium. Physica C: Superconductivity and Its Applications, 2018, 548, 68-71. | 1.2 | 4 |
| 16 | Coexistence of vitreous and crystalline phases of H_2O at ambient temperature. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 3 |
| 17 | Parallel background subtraction in diamond anvil cells for high pressure X-ray data analysis. High Pressure Research, 2019, 39, 628-639. | 1.2 | 2 |
| 18 | Note: Simple and portable setup for loading high purity liquids in diamond anvil cell. Review of Scientific Instruments, 2016, 87, 036103. | 1.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Reply to Martinez-Canales et al.: The structure(s) of lithium at low temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8810-E8811. | 7.1 | 1 |