

Zachary M Geballe

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,383
citations

840728

11
h-index

839512

18
g-index

18
all docs

18
docs citations

18
times ranked

1273
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evidence for Superconductivity above 260 K in Lanthanum Superhydride at Megabar Pressures. <i>Physical Review Letters</i> , 2019, 122, 027001. | 7.8 | 891 |
| 2 | Synthesis and Stability of Lanthanum Superhydrides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 688-692. | 13.8 | 202 |
| 3 | Dynamics and superconductivity in compressed lanthanum superhydride. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 85 |
| 4 | New Calcium Hydrides with Mixed Atomic and Molecular Hydrogen. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19370-19378. | 3.1 | 38 |
| 5 | Origin of temperature plateaus in laser-heated diamond anvil cell experiments. <i>Journal of Applied Physics</i> , 2012, 111, . | 2.5 | 34 |
| 6 | Synthesis and Stability of Lanthanum Superhydrides. <i>Angewandte Chemie</i> , 2018, 130, 696-700. | 2.0 | 22 |
| 7 | Raman spectroscopy on hydrogenated graphene under high pressure. <i>Carbon</i> , 2020, 156, 549-557. | 10.3 | 18 |
| 8 | Thermal conductivity near the bottom of the Earth's lower mantle: Measurements of pyrolite up to 120 GPa and 2500 K. <i>Earth and Planetary Science Letters</i> , 2020, 536, 116161. | 4.4 | 18 |
| 9 | A Spectroscopic Study of the Insulator-Metal Transition in Liquid Hydrogen and Deuterium. <i>Advanced Science</i> , 2020, 7, 1901668. | 11.2 | 15 |
| 10 | Red-green luminescence in indium gallium nitride alloys investigated by high pressure optical spectroscopy. <i>Applied Physics Letters</i> , 2012, 100, 162103. | 3.3 | 14 |
| 11 | Comment on "Evidence of a first-order phase transition to metallic hydrogen". <i>Physical Review B</i> , 2017, 96, . | 3.2 | 12 |
| 12 | Solid phases of FeSi to 47 GPa and 2800 K: New data. <i>American Mineralogist</i> , 2014, 99, 720-723. | 1.9 | 11 |
| 13 | Latent heat method to detect melting and freezing of metals at megabar pressures. <i>Physical Review Materials</i> , 2021, 5, . | 2.4 | 6 |
| 14 | Helium-hydrogen immiscibility at high pressures. <i>Journal of Chemical Physics</i> , 2019, 150, 114504. | 3.0 | 5 |
| 15 | Modulation calorimetry in diamond anvil cells. I. Heat flow models. <i>Journal of Applied Physics</i> , 2017, 121, . | 2.5 | 4 |
| 16 | AC calorimetry of H ₂ O at pressures up to 9 GPa in diamond anvil cells. <i>Journal of Applied Physics</i> , 2017, 121, 245901. | 2.5 | 3 |
| 17 | High-pressure synthesis and thermodynamic stability of PdH up to 8 GPa. <i>Physical Review B</i> , 2021, 103, . | 2.5 | 1 |
| 18 | Modulation calorimetry in diamond anvil cells. II. Joule-heating design and prototypes. <i>Journal of Applied Physics</i> , 2017, 121, . | 2.5 | 2 |