

Pietro Delugas

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

6,380
citations

394421

19
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

9019
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901. | 1.8 | 4,303 |
| 2 | Quantum ESPRESSO toward the exascale. Journal of Chemical Physics, 2020, 152, 154105. | 3.0 | 796 |
| 3 | Methylammonium Rotational Dynamics in Lead Halide Perovskite by Classical Molecular Dynamics: The Role of Temperature. Journal of Physical Chemistry C, 2015, 119, 17421-17428. | 3.1 | 255 |
| 4 | Spontaneous 2-Dimensional Carrier Confinement at the SrTiO_3 Surface. Physical Review Letters, 2011, 106, 166807. | 7.8 | 185 |
| 5 | Temperature Evolution of Methylammonium Trihalide Vibrations at the Atomic Scale. Journal of Physical Chemistry Letters, 2016, 7, 529-535. | 4.6 | 82 |
| 6 | Radiative Recombination and Photoconversion of Methylammonium Lead Iodide Perovskite by First Principles: Properties of an Inorganic Semiconductor within a Hybrid Body. Journal of Physical Chemistry C, 2014, 118, 24843-24853. | 3.1 | 74 |
| 7 | Prediction of a native ferroelectric metal. Nature Communications, 2016, 7, 11211. | 12.8 | 71 |
| 8 | Appealing Perspectives of Hybrid Lead-Iodide Perovskites as Thermoelectric Materials. Journal of Physical Chemistry C, 2016, 120, 28472-28479. | 3.1 | 66 |
| 9 | Dielectric properties and long-wavelength optical modes of the high- κ oxide LaAlO_3 . Physical Review B, 2005, 71, . | 3.2 | 65 |
| 10 | Giant oscillating thermopower at oxide interfaces. Nature Communications, 2015, 6, 6678. | 12.8 | 62 |
| 11 | Dielectric Properties of High- κ Oxides: Theory and Experiment for Lu_2O_3 . Physical Review Letters, 2005, 94, 027602. | 7.8 | 56 |
| 12 | Methylammonium fragmentation in amines as source of localized trap levels and the healing role of Cl in hybrid lead-iodide perovskites. Physical Review B, 2015, 92, . | 3.2 | 54 |
| 13 | Entropy-Suppressed Ferroelectricity in Hybrid Lead-Iodide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 4909-4915. | 4.6 | 51 |
| 14 | Meta-screening and permanence of polar distortion in metallized ferroelectrics. Physical Review B, 2018, 97, . | 3.2 | 39 |
| 15 | Cation charge anomalies and high- κ dielectric behavior in DyScO_3 : Ab initio density-functional and self-interaction-corrected calculations. Physical Review B, 2007, 75, . | 3.2 | 34 |
| 16 | Direct imaging of the core-shell effect in positive temperature coefficient of resistance- BaTiO_3 ceramics. Applied Physics Letters, 2009, 95, . | 3.3 | 27 |
| 17 | Intrinsic origin of two-dimensional electron gas at the (001) surface of SrTiO_3 . Physical Review B, 2015, 91, . | 3.1 | 27 |
| 18 | First Principles Investigation on the Modifications of the 4H-SiC Band Structure Due to the (4,4) and (3,5) Stacking Faults. Applied Physics Express, 2011, 4, 025802. | 2.4 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Competing Forces in the Self-Assembly of Coupled ZnO Nanopyramids. ACS Nano, 2015, 9, 3685-3694. | 14.6 | 22 |
| 20 | Dielectric properties of two phases of crystalline lutetium oxide. Microelectronics Reliability, 2005, 45, 831-833. | 1.7 | 16 |
| 21 | Dielectric constant boost in amorphous sesquioxides. Applied Physics Letters, 2008, 92, . | 3.3 | 16 |
| 22 | Te-induced modulation of the Mo \cdot HfO $_2$ interface effective work function. Applied Physics Letters, 2008, 92, . | 3.3 | 13 |
| 23 | Reorientable dipolar and anomalous screening in CaCu_3 Physical Review B, 2010, 81, . | 3.2 | 11 |
| 24 | Conservation of dielectric constant upon amorphization in perovskite oxides. Physical Review B, 2007, 76, . | 3.2 | 10 |
| 25 | Dielectric and vibrational properties of bixbyite sesquioxides. Physical Review B, 2009, 80, . | 3.2 | 8 |
| 26 | Systematic First Principles Calculations of the Effects of Stacking Fault Defects on the 4H-SiC Band Structure. Materials Science Forum, 0, 645-648, 283-286. | 0.3 | 8 |
| 27 | Modeling of Alternative High-k Dielectrics for Memory Based Applications. ECS Transactions, 2009, 25, 131-145. | 0.5 | 3 |
| 28 | Alternative Gate Dielectric Materials. ECS Transactions, 2006, 3, 479-497. | 0.5 | 2 |
| 29 | Dielectric Properties of Rare-Earth Oxides: General Trends from Theory. , 0, , 225-246. | | 2 |
| 30 | Dielectric Properties of High-K Materials : a Theoretical View. ECS Transactions, 2006, 3, 309-314. | 0.5 | 0 |
| 31 | Publisher's Note: Dielectric and vibrational properties of bixbyite sesquioxides [Phys. Rev. B 80 , 104301 (2009)]. Physical Review B, 2009, 80, . | 3.2 | 0 |