Pietro Delugas

List of Publications by Year
in descending order

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	Q<scp>uantum</scp> ESPRESSO toward the exascale. Journal of Chemical Physics, 2020, 152, 154105.	3.0	796
2	Meta-screening and permanence of polar distortion in metallized ferroelectrics. Physical Review B, 2018, 97, .	3.2	39
3	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	1.8	4,303
4	Appealing Perspectives of Hybrid Leadâ€“Iodide Perovskites as Thermoelectric Materials. Journal of Physical Chemistry C, 2016, 120, 28472-28479.	3.1	66
5	Prediction of a native ferroelectric metal. Nature Communications, 2016, 7, 11211.	12.8	71
6	Temperature Evolution of Methylammonium Trihalide Vibrations at the Atomic Scale. Journal of Physical Chemistry Letters, 2016, 7, 529-535.	4.6	82
7	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
8	Giant oscillating thermopower at oxide interfaces. Nature Communications, 2015, 6, 6678.	12.8	62
9	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
10	Intrinsic origin of two-dimensional electron gas at the (001) surface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>SrTiO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:math> Physical Review B, 2015, 91, .	3.2	27
11	Competing Forces in the Self-Assembly of Coupled ZnO Nanopyramids. ACS Nano, 2015, 9, 3685-3694.	14.6	22
12	Entropy-Suppressed Ferroelectricity in Hybrid Lead-Iodide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 4909-4915.	4.6	51
13	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
14	Spontaneous 2-Dimensional Carrier Confinement at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-Type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi> Physical Review Letters, 2011, 106, 166807.	7.8	185
15	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
16	Reorientable dipolar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow> and anomalous screening in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaCu</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m Physical Review B, 2010, 81, .	3.2	11
17	Dielectric and vibrational properties of bixbyite sesquioxides. Physical Review B, 2009, 80, .	3.2	8
18	Publisher's Note: Dielectric and vibrational properties of bixbyite sesquioxides [Phys. Rev. B80, 104301 (2009)]. Physical Review B, 2009, 80, .	3.2	0

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19	Modeling of Alternative High-k Dielectrics for Memory Based Applications. ECS Transactions, 2009, 25, 131-145.	0.5	3
20	Direct imaging of the core-shell effect in positive temperature coefficient of resistance-BaTiO3 ceramics. Applied Physics Letters, 2009, 95, .	3.3	27
21	Te-induced modulation of the Moâ^•HfO2 interface effective work function. Applied Physics Letters, 2008, 92, .	3.3	13
22	Dielectric constant boost in amorphous sesquioxides. Applied Physics Letters, 2008, 92, .	3.3	16
23	Cation charge anomalies and high-Î°dielectric behavior inDyScO3:Ab initiodensity-functional and self-interaction-corrected calculations. Physical Review B, 2007, 75, .	3.2	34
24	Conservation of dielectric constant upon amorphization in perovskite oxides. Physical Review B, 2007, 76, .	3.2	10
25	Alternative Gate Dielectric Materials. ECS Transactions, 2006, 3, 479-497.	0.5	2
26	Dielectric Properties of High-K Materials : a Theoretical View. ECS Transactions, 2006, 3, 309-314.	0.5	0
27	Dielectric properties of two phases of crystalline lutetium oxide. Microelectronics Reliability, 2005, 45, 831-833.	1.7	16
28	Dielectric Properties of High-Î°Oxides: Theory and Experiment forLu2O3. Physical Review Letters, 2005, 94, 027602.	7.8	56
29	Dielectric properties and long-wavelength optical modes of the high-Î°oxideLaAlO3. Physical Review B, 2005, 71, .	3.2	65
30	Dielectric Properties of Rare-Earth Oxides: General Trends from Theory. , 0, , 225-246.		2
31	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