

# Pietro Delugas

## List of Publications by Year in descending order

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31  
papers

6,380  
citations

448610

19  
h-index

591227

27  
g-index

31  
all docs

31  
docs citations

31  
times ranked

10228  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum ESPRESSO toward the exascale. Journal of Chemical Physics, 2020, 152, 154105.	1.2	796
2	Meta-screening and permanence of polar distortion in metallized ferroelectrics. Physical Review B, 2018, 97, .	1.1	39
3	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	0.7	4,303
4	Appealing Perspectives of Hybrid Lead-Iodide Perovskites as Thermoelectric Materials. Journal of Physical Chemistry C, 2016, 120, 28472-28479.	1.5	66
5	Prediction of a native ferroelectric metal. Nature Communications, 2016, 7, 11211.	5.8	71
6	Temperature Evolution of Methylammonium Trihalide Vibrations at the Atomic Scale. Journal of Physical Chemistry Letters, 2016, 7, 529-535.	2.1	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, .	1.1	54
8	Giant oscillating thermopower at oxide interfaces. Nature Communications, 2015, 6, 6678.	5.8	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.	1.5	255
10	Intrinsic origin of two-dimensional electron gas at the (001) surface of $\text{SrTiO}_3$ . Physical Review B, 2015, 91, .	1.1	27
11	Competing Forces in the Self-Assembly of Coupled ZnO Nanopyramids. ACS Nano, 2015, 9, 3685-3694.	7.3	22
12	Entropy-Suppressed Ferroelectricity in Hybrid Lead-Iodide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 4909-4915.	2.1	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.	1.5	74
14	Spontaneous 2-Dimensional Carrier Confinement at the $\text{SrTiO}_3$ Surface. Physical Review Letters, 2011, 106, 166807.	2.9	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.	1.1	22
16	Reorientable dipolar $\text{CaCu}_3\text{O}_7$ and anomalous screening in $\text{CaCu}_3\text{O}_7$ . Physical Review B, 2010, 81, .	1.1	11
17	Dielectric and vibrational properties of bixbyite sesquioxides. Physical Review B, 2009, 80, .	1.1	8
18	Publisher's Note: Dielectric and vibrational properties of bixbyite sesquioxides [Phys. Rev. B 80, 104301 (2009)]. Physical Review B, 2009, 80, .	1.1	0

#	ARTICLE	IF	CITATIONS
19	Modeling of Alternative High-k Dielectrics for Memory Based Applications. ECS Transactions, 2009, 25, 131-145.	0.3	3
20	Direct imaging of the core-shell effect in positive temperature coefficient of resistance-BaTiO3 ceramics. Applied Physics Letters, 2009, 95, .	1.5	27
21	Te-induced modulation of the Mo $\delta^+$ -HfO2 interface effective work function. Applied Physics Letters, 2008, 92, .	1.5	13
22	Dielectric constant boost in amorphous sesquioxides. Applied Physics Letters, 2008, 92, .	1.5	16
23	Cation charge anomalies and high- $\epsilon^o$ dielectric behavior in DyScO3:Ab initio density-functional and self-interaction-corrected calculations. Physical Review B, 2007, 75, .	1.1	34
24	Conservation of dielectric constant upon amorphization in perovskite oxides. Physical Review B, 2007, 76, .	1.1	10
25	Alternative Gate Dielectric Materials. ECS Transactions, 2006, 3, 479-497.	0.3	2
26	Dielectric Properties of High-K Materials : a Theoretical View. ECS Transactions, 2006, 3, 309-314.	0.3	0
27	Dielectric properties of two phases of crystalline lutetium oxide. Microelectronics Reliability, 2005, 45, 831-833.	0.9	16
28	Dielectric Properties of High- $\epsilon^o$ Oxides: Theory and Experiment for Lu2O3. Physical Review Letters, 2005, 94, 027602.	2.9	56
29	Dielectric properties and long-wavelength optical modes of the high- $\epsilon^o$ oxide LaAlO3. Physical Review B, 2005, 71, .	1.1	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