

Davide Ceresoli

List of Publications by Year in descending order

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84
papers

25,431
citations

159585

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h-index

60623

81
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85
docs citations

85
times ranked

24986
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing Near-Infrared Phosphorescence with Heteroleptic Iridium Complexes Bearing a Single Emitting Ligand: Properties and Organic Light-Emitting Diode Applications. <i>Chemistry of Materials</i> , 2022, 34, 574-583.	6.7	20
2	Anharmonic motion and aspherical nuclear probability density functions in cesium halides. <i>Physical Review B</i> , 2022, 105, .	3.2	0
3	GIPAW Pseudopotentials of d Elements for Solid-State NMR. <i>Materials</i> , 2022, 15, 3347.	2.9	4
4	High pressure structure studies of three SrGeO ₃ polymorphs – Amorphization under pressure. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157419.	5.5	3
5	First-Principles Study on the Crystalline Ga ₄ Sb ₆ Te ₃ Phase Change Compound. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000382.	2.4	2
6	Comparative Analysis of DFT+U, ACBN0, and Hybrid Functionals on the Spin Density of YTiO ₃ and SrRuO ₃ . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 616.	2.5	1
7	Electronic structure of defected polyethylene for Schottky emission. <i>Materials Chemistry and Physics</i> , 2021, 263, 124268.	4.0	6
8	First-Principles Study on Electron-Induced Excitations of Atomic Layer Deposition Precursors: Inelastic Electron Wave Packet Scattering with Cobalt Tricarbonyl Nitrosyl Co(CO) ₃ NO Using Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4524-4533.	2.5	2
9	About the deterioration of polyethylene exposed to plasma discharges: A comparison between two models. <i>Applied Surface Science</i> , 2021, 567, 150306.	6.1	3
10	Advanced modeling of materials with PAOFLOW 2.0: New features and software design. <i>Computational Materials Science</i> , 2021, 200, 110828.	3.0	21
11	eQE 2.0: Subsystem DFT beyond GGA functionals. <i>Computer Physics Communications</i> , 2021, 269, 108122.	7.5	13
12	High-Pressure Computational Search of Trivalent Lanthanide Dinitrides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 161-167.	3.1	5
13	Ab Initio Many-Body Perturbation Theory Calculations of the Electronic and Optical Properties of Cyclometalated Ir(III) Complexes. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1188-1199.	5.3	5
14	High-pressure, low-temperature studies of phase transitions in SrRuO ₃ – Absence of volume collapse. <i>Journal of Solid State Chemistry</i> , 2020, 287, 121360.	2.9	2
15	Local Structure and Magnetism of Fe ₂ O ₃ Maghemite Nanocrystals: The Role of Crystal Dimension. <i>Nanomaterials</i> , 2020, 10, 867.	4.1	37
16	First-principles evaluation of the secondary electron yield ($\hat{i}^3\langle N \rangle$) from polyethylene surface. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 175301.	2.8	6
17	Investigation of the high pressure phase BiS ₂ : Temperature-resolved structure and compression behavior to 60 GPa. <i>Journal of Alloys and Compounds</i> , 2019, 789, 588-594.	5.5	7
18	Unraveling the Degradation Mechanism of Flrpic-Based Blue OLEDs: I. A Theoretical Investigation. <i>Chemistry of Materials</i> , 2019, 31, 2269-2276.	6.7	9

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19	Unraveling the Degradation Mechanism in Irpic-Based Blue OLEDs: II. Trap and Detect Molecules at the Interfaces. Chemistry of Materials, 2019, 31, 2277-2285.	6.7	27
20	Tailoring topological states in silicene using different halogen-passivated Si(111) substrates. Physical Review B, 2018, 97, .	3.2	2
21	Magnetic Moments and Electron Transport through Chromium-Based Antiferromagnetic Nanojunctions. Materials, 2018, 11, 2030.	2.9	3
22	Rare Earth Doped Ceria: The Complex Connection Between Structure and Properties. Frontiers in Chemistry, 2018, 6, 526.	3.6	88
23	Vibrational and thermoelastic properties of bcc iron from selected EAM potentials. Computational Materials Science, 2018, 152, 99-106.	3.0	8
24	η^2 -Diketonate ancillary ligands in heteroleptic iridium complexes: a balance between synthetic advantages and photophysical troubles. Photochemical and Photobiological Sciences, 2018, 17, 1169-1178.	2.9	6
25	π -Induced aggregation and single-crystal fluorescence anisotropy of 5,6,10b-triazaacephenanthrylene. IUCr, 2018, 5, 335-347.	2.2	10
26	A polynomial Ansatz for norm-conserving pseudopotentials. Journal of Physics Condensed Matter, 2018, 30, 275501.	1.8	0
27	Experimental evidence for pressure-induced first order transition in cerium nitride from B1 to B10 structure type. Journal of Applied Physics, 2017, 121, .	2.5	14
28	DFT investigation of the effect of spin-orbit coupling on the NMR shifts in paramagnetic solids. Physical Review B, 2017, 95, .	3.2	31
29	eQE: An open-source density functional embedding theory code for the condensed phase. International Journal of Quantum Chemistry, 2017, 117, e25401.	2.0	40
30	Upper limit to the ultimate achievable emission wavelength in near-IR emitting cyclometalated iridium complexes. Photochemical and Photobiological Sciences, 2017, 16, 1220-1223.	2.9	17
31	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	1.8	4,303
32	Elastic constants and mechanical properties of PEDOT from first principles calculations. Computational Materials Science, 2017, 139, 234-242.	3.0	15
33	AFLOW: A minimalist approach to high-throughput ab initio calculations including the generation of tight-binding hamiltonians. Computational Materials Science, 2017, 136, 76-84.	3.0	70
34	High-pressure phase diagram, structural transitions, and persistent nonmetallicity of BaBiO_3 : Theory and experiment. Physical Review Materials, 2017, 1, .	2.4	18
35	Avoiding fractional electrons in subsystem DFT based <i>ab-initio</i> molecular dynamics yields accurate models for liquid water and solvated OH radical. Journal of Chemical Physics, 2016, 144, 234105.	3.0	28
36	Quantum mechanical calculation of Rydberg autoionization rates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 204004.	1.5	12

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37	Spin-filtering in graphene junctions with Ti and Co adsorbates. Chemical Physics, 2016, 478, 91-96.	1.9	5
38	Source function and plane waves: Toward complete bader analysis. Journal of Computational Chemistry, 2016, 37, 2133-2139.	3.3	8
39	Accurate tight-binding Hamiltonians for two-dimensional and layered materials. Physical Review B, 2016, 93, .	3.2	40
40	Electronic transport in B-N substituted bilayer graphene nanojunctions. Physical Review B, 2016, 93, .	3.2	8
41	Near-IR Emitting Iridium(III) Complexes with Heteroaromatic β -Diketonate Ancillary Ligands for Efficient Solution-Processed OLEDs: Structure-Property Correlations. Angewandte Chemie - International Edition, 2016, 55, 2714-2718.	13.8	126
42	Near-IR Emitting Iridium(III) Complexes with Heteroaromatic β -Diketonate Ancillary Ligands for Efficient Solution-Processed OLEDs: Structure-Property Correlations. Angewandte Chemie, 2016, 128, 2764-2768.	2.0	23
43	Exploiting the Photonic Crystal Properties of TiO_2 Nanotube Arrays To Enhance Photocatalytic Hydrogen Production. ACS Catalysis, 2016, 6, 1345-1353.	11.2	117
44	Spin diffusion in the low-dimensional molecular quantum Heisenberg antiferromagnet Cu_2O with implanted muons. Physical Review B, 2015, 91, .	3.8	26
45	High-pressure synthesis of bismuth disulfide, structural solution and its physical properties. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s79-s79.	0.1	0
46	Thermoelastic properties of Cu_2O -iron from first-principles. Physical Review B, 2015, 91, .	3.2	40
47	Subsystem real-time time dependent density functional theory. Journal of Chemical Physics, 2015, 142, 154116.	3.0	34
48	Phase stability of the SrMnO_3 hexagonal perovskite system at high pressure and temperature. Physical Review B, 2014, 90, .	3.2	29
49	Periodic subsystem density-functional theory. Journal of Chemical Physics, 2014, 141, 174101.	3.0	42
50	<i>NCImilano</i> : an electron-density-based code for the study of noncovalent interactions. Journal of Applied Crystallography, 2013, 46, 1513-1517.	4.5	50
51	Enhancement of DFT-calculations at petascale: Nuclear Magnetic Resonance, Hybrid Density Functional Theory and Car-Parrinello calculations. Computer Physics Communications, 2013, 184, 1827-1833.	7.5	33
52	Quantum states of muons in fluorides. Physical Review B, 2013, 87, .	3.2	57
53	Playing quantum hide-and-seek with the muon: localizing muon stopping sites. Physica Scripta, 2013, 88, 068510.	2.5	67
54	An integrated framework for multi-scale multi-physics numerical modelling of interface evolution in welding. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012029.	0.6	5

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73	Structural and dielectric properties of crystalline and amorphous ZrO ₂ . Thin Solid Films, 2005, 486, 125-128.	1.8	160
74	Orbital Magnetization in Extended Systems. ChemPhysChem, 2005, 6, 1815-1819.	2.1	28
75	Why Are Alkali Halide Surfaces Not Wetted by Their Own Melt?. Physical Review Letters, 2005, 94, 176105.	7.8	40
76	Exciton self-trapping in bulk polyethylene. Journal of Physics Condensed Matter, 2005, 17, 4621-4627.	1.8	27
77	Physics of solid and liquid alkali halide surfaces near the melting point. Journal of Chemical Physics, 2005, 123, 164701.	3.0	31
78	Structural, electronic, and dielectric properties of amorphous ZrO ₂ from ab initio molecular dynamics. Physical Review B, 2005, 71, .	3.2	135
79	Orbital Magnetization in Periodic Insulators. Physical Review Letters, 2005, 95, 137205.	7.8	300
80	Trapping of excitons at chemical defects in polyethylene. Journal of Chemical Physics, 2004, 121, 6478-6484.	3.0	39
81	NaCl nanodroplet on NaCl(100) at the melting point. Surface Science, 2004, 566-568, 794-798.	1.9	14
82	Berry-Phase Calculation of Magnetic Screening and Rotational g Factor in Molecules and Solids. Physical Review Letters, 2002, 89, 116402.	7.8	13
83	Dehydroxylation and Silanization of the Surfaces of β -Cristobalite Silica: An ab Initio Simulation. Journal of Physical Chemistry B, 2001, 105, 8007-8013.	2.6	95
84	Two-Membered Silicon Rings on the Dehydroxylated Surface of Silica. Physical Review Letters, 2000, 84, 3887-3890.	7.8	150