

Giacomo Giorgi

List of Publications by Citations

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60
papers

2,139
citations

23
h-index

45
g-index

67
ext. papers

2,430
ext. citations

5.6
avg, IF

5.47
L-index

#	Paper	IF	Citations
60	Small Photocarrier Effective Masses Featuring Ambipolar Transport in Methylammonium Lead Iodide Perovskite: A Density Functional Analysis. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 4213-6	6.4	543
59	Cation Role in Structural and Electronic Properties of 3D Organic-Inorganic Halide Perovskites: A DFT Analysis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12176-12183	3.8	143
58	The mechanism of slow hot-hole cooling in lead-iodide perovskite: first-principles calculation on carrier lifetime from electron-phonon interaction. <i>Nano Letters</i> , 2015 , 15, 3103-8	11.5	121
57	Organic-Inorganic Hybrid Lead Iodide Perovskite Featuring Zero Dipole Moment Guanidinium Cations: A Theoretical Analysis. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4694-4701	3.8	108
56	Organic-Inorganic halide perovskites: an ambipolar class of materials with enhanced photovoltaic performances. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8981-8991	13	89
55	Ice-Assisted Synthesis of Black Phosphorus Nanosheets as a Metal-Free Photocatalyst: 2D/2D Heterostructure for Broadband H ₂ Evolution. <i>Advanced Functional Materials</i> , 2019 , 29, 1902486	15.6	82
54	The Effects of the Organic-Inorganic Interactions on the Thermal Transport Properties of CH ₃ NH ₃ PbI ₃ . <i>Nano Letters</i> , 2016 , 16, 2749-53	11.5	80
53	Penetration Barrier of Water through Graphynes' Pores: First-Principles Predictions and Force Field Optimization. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 751-5	6.4	66
52	Graphdiyne Pores: Ad Hoc Openings for Helium Separation Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29966-29972	3.8	61
51	Alternative, Lead-free, Hybrid Organic-Inorganic Perovskites for Solar Applications: A DFT Analysis. <i>Chemistry Letters</i> , 2015 , 44, 826-828	1.7	60
50	First principles investigation of hydrogen physical adsorption on graphynes' layers. <i>Carbon</i> , 2015 , 95, 1076-1081	10.4	50
49	Anion Ordering in CaTaO ₂ N: Structural Impact on the Photocatalytic Activity. Insights from First-Principles. <i>Chemistry of Materials</i> , 2017 , 29, 539-545	9.6	44
48	Nonradical mechanisms for the uncatalyzed thermal functionalization of silicon surfaces by alkenes and alkynes: a density functional study. <i>Langmuir</i> , 2006 , 22, 9949-56	4	43
47	A Multitechnique Physicochemical Investigation of Various Factors Controlling the Photoaction Spectra and of Some Aspects of the Electron Transfer for a Series of Push-Pull Zn(II) Porphyrins Acting as Dyes in DSSCs. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23170-23182	3.8	41
46	Nature of the Electronic and Optical Excitations of Ruddlesden-Popper Hybrid Organic-Inorganic Perovskites: The Role of the Many-Body Interactions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5891-5896	6.4	38
45	Zero-Dimensional Hybrid Organic-Inorganic Halide Perovskite Modeling: Insights from First Principles. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 888-99	6.4	35
44	Optical Properties of Lead-Free Double Perovskites by Ab Initio Excited-State Methods. <i>ACS Energy Letters</i> , 2020 , 5, 457-463	20.1	34

43	A density functional tight binding study of acetic acid adsorption on crystalline and amorphous surfaces of titania. <i>Molecules</i> , 2015 , 20, 3371-88	4.8	33
42	Zero-dipole molecular organic cations in mixed organic-inorganic halide perovskites: possible chemical solution for the reported anomalous hysteresis in the current-voltage curve measurements. <i>Nanotechnology</i> , 2015 , 26, 442001	3.4	33
41	The Mechanism of Magnetic Interaction in Spin-Ladder Molecular Magnets: A First-Principles, Bottom-Up, Theoretical Study of the Magnetism in the Two-Legged Spin-Ladder Bis(2-amino-5-nitropyridinium) Tetrabromocuprate Monohydrate. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 4697-4706	2.3	31
40	A Novel Nanoporous Graphite Based on Graphynes: First-Principles Structure and Carbon Dioxide Preferential Physisorption. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27996-28003	9.5	27
39	First-principles study of fast Na diffusion in Na3P. <i>Chemical Physics Letters</i> , 2014 , 612, 129-133	2.5	24
38	DFT study of anatase-derived TiO2 nanosheets/graphene hybrid materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1471-1479	1.3	23
37	The Nature of Radiative Transitions in TiO2-Based Nanosheets. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18495-18503	3.8	23
36	Excitons at the (001) surface of anatase: Spatial behavior and optical signatures. <i>Physical Review B</i> , 2011 , 84,	3.3	21
35	Lead-iodide nanowire perovskite with methylviologen showing interfacial charge-transfer absorption: a DFT analysis. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17955-9	3.6	20
34	Communication: Singularity-free hybrid functional with a Gaussian-attenuating exact exchange in a plane-wave basis. <i>Journal of Chemical Physics</i> , 2013 , 138, 241101	3.9	20
33	Two-dimensional optical excitations in the mixed-valence Cs2Au2I6 fully inorganic double perovskite. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10197-10201	7.1	20
32	Development of a Classical Interatomic Potential for MAPbBr3. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3724-3733	3.8	19
31	On the Chemical Origin of the Gap Bowing in (GaAs)(1-x)Ge(2x) Alloys: A Combined DFT-QSGW Study. <i>Nanoscale Research Letters</i> , 2010 , 5, 469-477	5	19
30	Role of Quantum-Confinement in Anatase Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3867-3873	6.4	17
29	Visible-to-Near-IR Wide-Range Light Harvesting by Interfacial Charge-Transfer Transitions between TiO2 and p-Aminophenol and Evidence of Direct Electron Injection to the Conduction Band of TiO2. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18710-18716	3.8	16
28	Structural and electronic features of small hybrid organic-inorganic halide perovskite clusters: a theoretical analysis. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27124-27132	3.6	13
27	Unraveling the adsorption mechanism of aromatic and aliphatic diols on the TiO2 surface: a density functional theory analysis. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9761-7	3.6	12
26	A density functional study on the Pt(0)-catalysed hydrosilylation of ethylene. <i>Computational and Theoretical Chemistry</i> , 2003 , 623, 277-288		11

25	MgTaO ₂ N Photocatalysts: Perovskite versus Ilmenite Structure. A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27813-27821	3.8	10
24	Zirconium and hafnium oxide interface with silicon: Computational study of stress and strain effects. <i>Computational Materials Science</i> , 2008 , 43, 930-937	3.2	10
23	Strong out-of-plane excitons in 2D hybrid halide double perovskites. <i>Applied Physics Letters</i> , 2021 , 119, 051103	3.4	10
22	A Scalable Method for Thickness and Lateral Engineering of 2D Materials. <i>ACS Nano</i> , 2020 , 14, 4861-4870	6.7	8
21	Oxidative addition of SiH ₄ to Pt(PH ₃) ₂ : a dynamical density functional study. <i>Chemical Physics Letters</i> , 2002 , 364, 87-92	2.5	8
20	Printable smart 3D architectures of regenerated silk on poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Materials and Design</i> , 2021 , 201, 109492	8.1	8
19	Effect of organic cation states on electronic properties of mixed organic-inorganic halide perovskite clusters. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8161-8169	3.6	7
18	First-principles investigation of the Lewis acid-base adduct formation at the methylammonium lead iodide surface. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11183-11195	3.6	7
17	Halide Pb-Free Double Perovskites: Ternary vs. Quaternary Stoichiometry. <i>Energies</i> , 2020 , 13, 3516	3.1	7
16	Carbon Nanotubes/Regenerated Silk Composite as a Three-Dimensional Printable Bio-Adhesive Ink with Self-Powering Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21007-21017	9.5	7
15	Bridging the Fields of Solar Cell and Battery Research to Develop High-Performance Anodes for Photoelectrochemical Cells and Metal Ion Batteries. <i>Challenges</i> , 2013 , 4, 116-135	3.4	6
14	Materials Design and Optimization for Next-Generation Solar Cell and Light-Emitting Technologies. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4638-4657	6.4	5
13	A-site phase segregation in mixed cation perovskite. <i>Materials Reports Energy</i> , 2021 , 100064		4
12	Smart Parental Advisory: A Usage Control and Deep Learning-Based Framework for Dynamic Parental Control on Smart TV. <i>Lecture Notes in Computer Science</i> , 2017 , 118-133	0.9	4
11	Engineering Graphene Oxide/Water Interface from First Principles to Experiments for Electrostatic Protective Composites. <i>Polymers</i> , 2020 , 12,	4.5	4
10	Permeation of chemisorbed hydrogen through graphene: A flipping mechanism elucidated. <i>Carbon</i> , 2021 , 178, 718-727	10.4	4
9	Structural and electronic features of Si/CH ₃ NH ₃ PbI ₃ interfaces with optoelectronic applicability: Insights from first-principles. <i>Nano Energy</i> , 2020 , 67, 104166	17.1	3
8	Modeling of plasmonic properties of nanostructures for next generation solar cells and beyond. <i>Advances in Physics: X</i> , 2021 , 6, 1908848	5.1	2

7	Electronic and Optical Properties of Low-Dimensional TiO ₂ : From Minority Surfaces to Nanocomposites. <i>ACS Symposium Series</i> , 2015 , 47-80	0.4	1
6	Doping of III ^V Arsenide and Phosphide Wurtzite Semiconductors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27203-27212	3.8	1
5	Theoretical Analysis on Mechanisms Implied in Hybrid Integrated Circuit Building. <i>Lecture Notes in Computer Science</i> , 2003 , 331-340	0.9	1
4	On the dual deuterium/deuteron nature of D charge distribution in the Ti host matrix: A DFT analysis. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16477-16484	6.7	
3	Clustering and Octet Rule Violation Impact on Band Gap Bowing: Ab Initio Calculation of the Electronic Properties of (GaAs) _{1-x} (Ge ₂) _x Alloys. <i>Chemistry Letters</i> , 2011 , 40, 770-772	1.7	
2	Advances in two-dimensional green materials for organic electronics applications 2022 , 391-422		
1	Electronic and Optical Properties of Nitrogen-Doped Layered Manganese Oxides. <i>Ceramic Transactions</i> , 135-140	0.1	