

Paolo Umari

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

21,189
citations

430754

18
h-index

610775

24
g-index

27
all docs

27
docs citations

27
times ranked

24525
citing authors

#	ARTICLE	IF	CITATIONS
1	QUANTUM ESPRESSO: a modular and open-source software project for quantum simulations of materials. Journal of Physics Condensed Matter, 2009, 21, 395502.	0.7	18,183
2	Relativistic GW calculations on CH ₃ NH ₃ PbI ₃ and CH ₃ NH ₃ SnI ₃ Perovskites for Solar Cell Applications. Scientific Reports, 2014, 4, 4467.	1.6	1,093
3	Cation-Induced Band-Gap Tuning in Organohalide Perovskites: Interplay of Spin-Orbit Coupling and Octahedra Tilting. Nano Letters, 2014, 14, 3608-3616.	4.5	1,033
4	Electronic and optical properties of mixed Sn-Pb organohalide perovskites: a first principles investigation. Journal of Materials Chemistry A, 2015, 3, 9208-9215.	5.2	170
5	Electronic and optical properties of MAPbX ₃ perovskites (X = I, Br, Cl): a unified DFT and GW theoretical analysis. Physical Chemistry Chemical Physics, 2016, 18, 27158-27164.	1.3	140
6	Microscopic theory and quantum simulation of atomic heat transport. Nature Physics, 2016, 12, 80-84.	6.5	93
7	Infrared Dielectric Screening Determines the Low Exciton Binding Energy of Metal-Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 620-627.	2.1	88
8	Electronic structure of MAPbI ₃ and MAPbCl ₃ : importance of band alignment. Scientific Reports, 2019, 9, 15159.	1.6	52
9	Chlorine Incorporation in the CH ₃ NH ₃ PbI ₃ Perovskite: Small Concentration, Big Effect. Inorganic Chemistry, 2017, 56, 74-83.	1.9	40
10	Large-scale G -W BSE calculations with N^3 scaling: Excitonic effects in dye-sensitized solar cells. Physical Review B, 2017, 95, .	1.1	34
11	Photoelectron properties of DNA and RNA bases from many-body perturbation theory. Physical Review B, 2011, 84, .	1.1	32
12	Detailed analysis of plastic shear in the Raman spectra of SiO ₂ glass. Journal of Non-Crystalline Solids, 2015, 428, 6-19.	1.5	29
13	Surface susceptibility and conductivity of MoS_2 and WSe_2 monolayers: A first-principles and ellipsometry characterization. Physical Review B, 2020, 101, .	1.1	28
14	Dielectric effect of a thin SiO ₂ interlayer at the interface between silicon and high-k oxides. Microelectronic Engineering, 2004, 72, 299-303.	1.1	26
15	Dielectric susceptibility of dipolar molecular liquids by ab initio molecular dynamics: application to liquid HCl. Chemical Physics Letters, 2004, 390, 193-198.	1.2	24
16	Transition Dipole Moments of $n = 1, 2,$ and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. Journal of Physical Chemistry Letters, 2020, 11, 716-723.	2.1	24
17	First-principles investigation of organic photovoltaic materials C_{60} and bis- h . Physical Review B, 2015, 91, .		
18	SIMPLE code: Optical properties with optimal basis functions. Computer Physics Communications, 2019, 240, 106-119.	3.0	21

#	ARTICLE	IF	CITATIONS
19	Koopmans Meets Betheâ€“Salpeter: Excitonic Optical Spectra without GW. Journal of Chemical Theory and Computation, 2019, 15, 3710-3720.	2.3	20
20	Harnessing molecular excited states with Lanczos chains. Journal of Physics Condensed Matter, 2010, 22, 074204.	0.7	15
21	Artificial photosynthesis: photoanodes based on polyquinoid dyes onto mesoporous tin oxide surface. Photochemical and Photobiological Sciences, 2021, 20, 1243-1255.	1.6	10
22	Bethe-Salpeter equation approach with electron-phonon coupling for exciton binding energies. Physical Review B, 2021, 103, .	1.1	9
23	Real Spaceâ€“Real Time Evolution of Excitonic States Based on the Bethe-Salpeter Equation Method. Journal of Physical Chemistry Letters, 2021, 12, 7261-7269.	2.1	2
24	A Fully Linear Response G_0W_0 Method That Scales Linearly up to Tens of Thousands of Cores. Journal of Physical Chemistry A, 2022, 126, 3384-3391.	1.1	2
25	Inclusion of infrared dielectric screening in the GW method from polaron energies to charge mobilities. Npj Computational Materials, 2022, 8, .	3.5	0