Rozzi Ca

List of Publications by Year
in descending order

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42 papers	2,563 citations	567281 15 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	3198 citing authors

#	Article	IF	Citations
1	octopus: a tool for the application of time-dependent density functional theory. Physica Status Solidi (B): Basic Research, 2006, 243, 2465-2488.	1.5	756
2	Coherent ultrafast charge transfer in an organic photovoltaic blend. Science, 2014, 344, 1001-1005.	12.6	470
3	Exact Coulomb cutoff technique for supercell calculations. Physical Review B, 2006, 73, .	3.2	369
4	Quantum coherence controls the charge separation in a prototypical artificial light-harvesting system. Nature Communications, 2013, 4, 1602.	12.8	239
5	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. Journal of Chemical Physics, 2020, 152, 124119.	3.0	210
6	Tracking the coherent generation of polaron pairs in conjugated polymers. Nature Communications, 2016, 7, 13742.	12.8	149
7	Photoexcitation of a Light-Harvesting Supramolecular Triad: A Time-Dependent DFT Study. Journal of Physical Chemistry B, 2009, 113, 5345-5349.	2.6	41
8	Quenching of Majority-Channel Quasiparticle Excitations in Cobalt. Physical Review Letters, 2002, 88, 236402.	7.8	38
9	Electron-Electron Interactions in Artificial Graphene. Physical Review Letters, 2012, 108, 246803.	7.8	32
10	Ab InitioSimulation of Optical Limiting: The Case of Metal-Free Phthalocyanine. Physical Review Letters, 2014, 112, 198303.	7.8	29
11	Quantum modeling of ultrafast photoinduced charge separation. Journal of Physics Condensed Matter, 2018, 30, 013002.	1.8	29
12	Ab initioFermi surface and conduction-band calculations in oxygen-reducedMoO3. Physical Review B, 2003, 68, .	3.2	26
13	Understanding real-time time-dependent density-functional theory simulations of ultrafast laser-induced dynamics in organic molecules. Journal of Chemical Physics, 2020, 153, 054106.	3.0	25
14	Intermolecular conical intersections in molecular aggregates. Nature Nanotechnology, 2021, 16, 63-68.	31.5	22
15	Charge Separation Dynamics and Optoâ€Electronic Properties of a Diaminoterephthalateâ€₆₀ Dyad. Advanced Functional Materials, 2015, 25, 2047-2053.	14.9	16
16	A Diaminoterephthalateâ€“C60 Dyad: A New Material for Optoelectronic Applications. Synthesis, 2015, 47, 1325-1328.	2.3	15
17	Exact Coulomb cutoff technique for supercell calculations in two dimensions. Physical Review B, 2009, 80, .	3.2	13
18	Nonlinear light absorption in many-electron systems excited by an instantaneous electric field: a non-perturbative approach. Physical Chemistry Chemical Physics, 2021, 23, 10059-10069.	2.8	11

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19	Modeling solvation effects in real-space and real-time within density functional approaches. Journal of Chemical Physics, 2015, 143, 144111.	3.0	10
20	Nonequilibrium Solvent Polarization Effects in Real-Time Electronic Dynamics of Solute Molecules Subject to Time-Dependent Electric Fields: A New Feature of the Polarizable Continuum Model. Journal of Chemical Theory and Computation, 2019, 15, 2306-2319.	5.3	9
21	Band-structure effects in the core-level photoemission spectra of NiO. Physical Review B, 2000, 62, R4774-R4777.	3.2	7
22	Stability of the Dirac cone in artificial graphene formed in quantum wells: a computational many-electron study. New Journal of Physics, 2016, 18, 083014.	2.9	7
23	Bonds, lone pairs, and shells probed by means of on-top dynamical correlations. European Physical Journal B, 2018, 91, 1.	1.5	6
24	Ab initiotheory of spin entanglement in atoms and molecules. Physical Review B, 2015, 91, .	3.2	5
25	Fundamental gaps of quantum dots on the cheap. Physical Review B, 2019, 99, .	3.2	5
26	A listening experiment comparing the timbre of two Stradivari with other violins. Journal of the Acoustical Society of America, 2022, 151, 443-450.	1.1	5
27	Light tuning of the image potential state electron-electron interactions. Surface Science, 2008, 602, 2983-2988.	1.9	4
28	Roadmap on bio-nano-photonics. Journal of Optics (United Kingdom), 2021, 23, 073001.	2.2	4
29	Theoretical simulation of core-level photoemission in transition-metal oxides. Physical Review B, 2005, 72, .	3.2	3
30	Correlation effects on the electronic properties of Bi2Sr2CaCu2O8. Journal of Physics and Chemistry of Solids, 2006, 67, 286-288.	4.0	2
31	Density functional approach to the band gaps of finite and periodic two-dimensional systems. Physical Review B, 2021, 104, .	3.2	2
32	Indoor noise level measurements and subjective comfort: Feasibility of smartphone-based participatory experiments. PLoS ONE, 2022, 17, e0262835.	2.5	2
33	Educational pathways through nanoscience: nitinol as a paradigmatic smart material. Physics Education, 2013, 48, 298-311.	0.5	1
34	Quantum coherence controls the charge separation in a prototypical artificial light harvesting system. , 2013, , .		1
35	Spin dependent many-body effects in the photoemission of Co. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 523-527.	1.7	0
36	Quantum coherence controls the charge separation in a prototypical artificial light harvesting system. EPJ Web of Conferences, 2013, 41, 08017.	0.3	0

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37	Coherent ultrafast charge transfer in an organic photovoltaic blend. , 2014, , .		0
38	Prototyping Ultrafast Charge Separation by Means of Time-Dependent Density Functional Methods. , 2018, , 1-19.		0
39	Quantum coherence controls the charge separation in a prototypical artificial light harvesting system. , 2012, , .		0
40	Same-spin dynamical correlation effects on the electron localization. Journal of Self-Assembly and Molecular Electronics (SAME), 2015, 2015, 1-14.	0.0	0
41	Probing Coherent Ultrafast Exciton Dissociation in a Polymer:Fullerene Photovoltaic Absorber. , 2015, , .		0
42	Prototyping Ultrafast Charge Separation by Means of Time-Dependent Density Functional Methods. , 2020, , 325-343.		0