

Myrta GrÃ¼ning

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,392
citations

257450

24
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

3620
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical response and band structure of LiCoO_2 including electron-hole interaction effects. Physical Review B, 2021, 104, .	3.2	18
2	Thermal conductivity of porous polycrystalline PbTe. Physical Review Materials, 2021, 5, .	2.4	0
3	Electronic structure of chromium trihalides beyond density functional theory. Physical Review B, 2021, 104, .	3.2	18
4	Double k-Grid Method for Solving the Bethe-Salpeter Equation via Lanczos Approaches. Frontiers in Chemistry, 2021, 9, 763946.	3.6	2
5	Towards temperature-induced topological phase transition in SnTe: A first-principles study. Physical Review B, 2020, 101, .	3.2	9
6	Role of the lattice in the light-induced insulator-to-metal transition in vanadium dioxide. Physical Review Research, 2020, 2, .	3.6	9
7	study of pressure-induced topological insulator transition in group-IV tellurides. Physical Review Research, 2020, 2, .	3.6	12
8	Many-body perturbation theory calculations using the yambo code. Journal of Physics Condensed Matter, 2019, 31, 325902.	1.8	269
9	Engineering the Interfacial Electronic Structure of Epitaxial Ge/AlAs(001) Heterointerfaces via Substitutional Boron Incorporation: The Roles of Doping and Interface Stoichiometry. ACS Applied Electronic Materials, 2019, 1, 2646-2654.	4.3	7
10	Possible phonon-induced electronic bi-stability in VO ₂ for ultrafast memory at room temperature. , 2019, , .		1
11	Second-harmonic generation in single-layer monochalcogenides: A response from first-principles real-time simulations. Physical Review Materials, 2019, 3, .	2.4	23
12	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. Chemistry of Materials, 2018, 30, 1998-2005.	6.7	65
13	Satellite valleys and strained band gap transition of bulk Ge: Impact of pseudopotential approximations on quasiparticle levels. Computational Materials Science, 2018, 149, 115-124.	3.0	1
14	First-Principles Calculations of Band Offsets at Heterovalent μ - $\text{In}_x\text{Ge}_{1-x}$ Physical Review Applied, 2018, 10, .	3.8	3
15	Two-photon absorption in two-dimensional materials: The case of hexagonal boron nitride. Physical Review B, 2018, 98, .	3.2	22
16	Direct and indirect band gaps in Ge under biaxial tensile strain investigated by photoluminescence and photoreflectance studies. Physical Review B, 2018, 97, .	3.2	18
17	Second-Harmonic Generation in Two-Dimensional Materials. , 2018, , 284-290.		0
18	Effect of ladder diagrams on optical absorption spectra in a quasiparticle self-consistent GW framework. Physical Review Materials, 2018, 2, .	2.4	45

#	ARTICLE	IF	CITATIONS
19	Excitonic effects in third-harmonic generation: The case of carbon nanotubes and nanoribbons. Physical Review B, 2017, 95, .	3.2	27
20	Optical properties of periodic systems within the current-current response framework: Pitfalls and remedies. Physical Review B, 2017, 95, .	3.2	22
21	Performance of polarisation functionals for linear and nonlinear optical properties of bulk zinc chalcogenides ZnX (X = S, Se, and Te). Physical Chemistry Chemical Physics, 2016, 18, 21179-21189.	2.8	13
22	Projected equations of motion approach to hybrid quantum/classical dynamics in dielectric-metal composites. Physical Review B, 2016, 94, .	3.2	8
23	Dielectrics in a time-dependent electric field: A real-time approach based on density-polarization functional theory. Physical Review B, 2016, 94, .	3.2	20
24	Strong second harmonic generation in SiC, ZnO, GaN two-dimensional hexagonal crystals from first-principles many-body calculations. Physical Chemistry Chemical Physics, 2015, 17, 9533-9540.	2.8	47
25	Second harmonic generation in h-BN and MoS ₂ monolayers: Role of electron-hole interaction. Physical Review B, 2014, 89, .	3.2	97
26	Nonlinear optics from an <i>ab initio</i> approach by means of the dynamical Berry phase: Application to second- and third-harmonic generation in semiconductors. Physical Review B, 2013, 88, .	3.2	62
27	Time-dependent density functional theory study of charge transfer in collisions. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	21
28	Implementation and testing of Lanczos-based algorithms for Random-Phase Approximation eigenproblems. Computational Materials Science, 2011, 50, 2148-2156.	3.0	37
29	Electronic properties of interfaces and defects from many-body perturbation theory: Recent developments and applications. Physica Status Solidi (B): Basic Research, 2011, 248, 275-289.	1.5	91
30	Real-time approach to the optical properties of solids and nanostructures: Time-dependent Bethe-Salpeter equation. Physical Review B, 2011, 84, .	3.2	103
31	Local-field and excitonic effects in the optical response of γ -alumina. Physical Review B, 2010, 81, .	3.2	12
32	Quasiparticle calculations of the electronic properties of ZrO ₂ and HfO ₂ and their interface with Si. Physical Review B, 2010, 81, .	3.2	35
33	Electronic properties of zircon and hafnium from many-body perturbation theory. Physical Review B, 2009, 79, .	3.2	12
34	yambo: An <i>ab initio</i> tool for excited state calculations. Computer Physics Communications, 2009, 180, 1392-1403.	7.5	927
35	Exciton-Plasmon States in Nanoscale Materials: Breakdown of the Tamm-Dancoff Approximation. Nano Letters, 2009, 9, 2820-2824.	9.1	128
36	Comment on "Huge Excitonic Effects in Layered Hexagonal Boron Nitride". Physical Review Letters, 2008, 100, 189701; discussion 189702.	7.8	64

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37	Macroscopic limit of time-dependent density-functional theory for adiabatic local approximations of the exchange-correlation kernel. <i>Physical Review B</i> , 2007, 76, .	3.2	7
38	Density functionals from many-body perturbation theory: The band gap for semiconductors and insulators. <i>Journal of Chemical Physics</i> , 2006, 124, 154108.	3.0	166
39	Effect of spatial nonlocality on the density functional band gap. <i>Physical Review B</i> , 2006, 74, .	3.2	68
40	Performance of Density Functionals for Calculating Barrier Heights of Chemical Reactions Relevant to Astrophysics. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7621-7636.	2.5	80
41	Improved Description of Chemical Barriers with Generalized Gradient Approximations (GGAs) and Meta-GGAs. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4459-4469.	2.5	48
42	STO and GTO field-induced polarization functions for H to Kr. <i>Journal of Computational Chemistry</i> , 2003, 24, 1582-1591.	3.3	21
43	Exchange-correlation energy and potential as approximate functionals of occupied and virtual Kohn-Sham orbitals: Application to dissociating H ₂ . <i>Journal of Chemical Physics</i> , 2003, 118, 7183.	3.0	54
44	On the required shape corrections to the local density and generalized gradient approximations to the Kohn-Sham potentials for molecular response calculations of (hyper)polarizabilities and excitation energies. <i>Journal of Chemical Physics</i> , 2002, 116, 9591-9601.	3.0	113
45	Exchange potential from the common energy denominator approximation for the Kohn-Sham Green's function: Application to (hyper)polarizabilities of molecular chains. <i>Journal of Chemical Physics</i> , 2002, 116, 6435-6442.	3.0	91
46	Shape corrections to exchange-correlation potentials by gradient-regulated seamless connection of model potentials for inner and outer region. <i>Journal of Chemical Physics</i> , 2001, 114, 652.	3.0	343
47	The Failure of Generalized Gradient Approximations (GGAs) and Meta-GGAs for the Two-Center Three-Electron Bonds in He ₂ ⁺ , (H ₂ O) ₂ ⁺ , and (NH ₃) ₂ ⁺ . <i>Journal of Physical Chemistry A</i> , 2001, 105, 9211-9218.	2.5	83
48	Density Functional Study of the Photoactive Yellow Protein's Chromophore. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4386-4391.	2.6	59