VojtÄ›ch VlÄek

List of Publications by Year
in descending order

Version: 2024-02-01

26 papers	695 citations	623188 14 h-index	552369 26 g-index
26 all docs	26 docs citations	26 times ranked	703 citing authors

#	Article	IF	Citations
1	Stochastic many-body calculations of moirÃ© states in twisted bilayer graphene at high pressures. Npj Computational Materials, 2022, 8, .	3.5	18
2	Reduced Scaling of Optimal Regional Orbital Localization via Sequential Exhaustion of the Single-Particle Space. Journal of Chemical Theory and Computation, 2022, 18, 4960-4972.	2.3	5
3	Are multi-quasiparticle interactions important in molecular ionization?. Journal of Chemical Physics, 2021, 154, 121101.	1.2	19
4	Efficient treatment of molecular excitations in the liquid phase environment via stochastic many-body theory. Journal of Chemical Physics, 2021, 155, 054104.	1.2	13
5	Decomposition and embedding in the stochastic GW self-energy. Journal of Chemical Physics, 2020, 153, 134103.	1.2	15
6	Quasiparticles and Band Structures in Organized Nanostructures of Donorâ€“Acceptor Copolymers. Journal of Physical Chemistry Letters, 2020, 11, 7177-7183.	2.1	5
7	Stochastic many-body perturbation theory for MoirÃ© states in twisted bilayer phosphorene. Journal of Physics Condensed Matter, 2020, 32, 234001.	0.7	20
8	Stochastic Vertex Corrections: Linear Scaling Methods for Accurate Quasiparticle Energies. Journal of Chemical Theory and Computation, 2019, 15, 6254-6266.	2.3	21
9	Stochastic time-dependent DFT with optimally tuned range-separated hybrids: Application to excitonic effects in large phosphorene sheets. Journal of Chemical Physics, 2019, 150, 184118.	1.2	5
10	Nonmonotonic band gap evolution in bent phosphorene nanosheets. Physical Review Materials, 2019, 3, .	0.9	5
11	Simple eigenvalue-self-consistent Î”Â¯GW. Journal of Chemical Physics, 2018, 149, 174107.	1.2	13
12	Exploring Oxidation State-Dependent Selectivity in Polymerization of Cyclic Esters and Carbonates with Zinc(II) Complexes. IScience, 2018, 7, 120-131.	1.9	13
13	Thermal Equilibration Controls H-Bonding and the Vertical Detachment Energy of Water Cluster Anions. Journal of Physical Chemistry Letters, 2018, 9, 5173-5178.	2.1	11
14	Effects of symmetry breaking on the translationâ€“rotation eigenstates of H₂, HF, and H₂O inside the fullerene C₆₀. Faraday Discussions, 2018, 212, 547-567.	1.6	20
15	First-principles spectra of Au nanoparticles: from quantum to classical absorption. Molecular Physics, 2018, 116, 2506-2511.	0.8	7
16	Swift <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:m beyond 10,000 electrons using sparse stochastic compression. Physical Review B, 2018, 98, .	1.1	42
17	Quasiparticle spectra from molecules to bulk. Physical Review Materials, 2018, 2, .	0.9	15
18	Structural changes and anomalous selfâ€diffusion of oxygen in liquid iron at high pressure. Geophysical Research Letters, 2017, 44, 3526-3534.	1.5	15

#	ARTICLE	IF	CITATIONS
19	High Pâ€“T experiments and first principles calculations of the diffusion of Si and Cr in liquid iron. Geochimica Et Cosmochimica Acta, 2017, 203, 323-342.	1.6	16
20	Stochastic GW Calculations for Molecules. Journal of Chemical Theory and Computation, 2017, 13, 4997-5003.	2.3	68
21	Explaining the symmetry breaking observed in the endofullerenes H₂@C₆₀, HF@C₆₀, and H₂O@C₆₀. Physical Chemistry Chemical Physics, 2017, 19, 31274-31283.	1.3	36
22	Spontaneous Charge Carrier Localization in Extended One-Dimensional Systems. Physical Review Letters, 2016, 116, 186401.	2.9	13
23	PERMINGEATITE, Cu3SbSe4, FROM PÅ˜ÍBRAM (CZECH REPUBLIC): DESCRIPTION AND RAMAN SPECTROSCOPY INVESTIGATIONS OF THE LUZONITE-SUBGROUP OF MINERALS. Canadian Mineralogist, 2014, 52, 501-511.	0.3	14
24	Electrical resistivity and thermal conductivity of liquid Fe alloys at high P and T , and heat flux in Earthâ€™s core. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4070-4073.	3.3	268
25	Enamel microarchitecture of a tribosphenic molar. Journal of Morphology, 2010, 271, 1204-1218.	0.6	10
26	Crystal structure of UO2SO4Â·2.5H2O: Full anisotropic refinement and vibration characteristics. Journal of Molecular Structure, 2009, 936, 75-79.	1.8	8