

Malte RÃsner

List of Publications by Year in descending order

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279487

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docs citations

44
times ranked

3166
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum dot-like plasmonic modes in twisted bilayer graphene supercells. 2D Materials, 2022, 9, 014004.	2.0	7
2	Coexisting charge density wave and ferromagnetic instabilities in monolayer InSe. Npj Computational Materials, 2022, 8, .	3.5	18
3	Real- and momentum-space description of the excitons in bulk and monolayer chromium tri-halides. Npj 2D Materials and Applications, 2022, 6, .	3.9	12
4	Dynamical correlations in single-layer CrI_3 . Physical Review B, 2022, 105, .	3.4	10
5	Quantum embedding methods for correlated excited states of point defects: Case studies and challenges. Physical Review B, 2022, 105, .	1.1	18
6	Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. Physical Review X, 2022, 12, .	2.8	8
7	Inducing a many-body topological state of matter through Coulomb-engineered local interactions. Physical Review Research, 2021, 3, .	1.3	9
8	Plasmonic waveguides from Coulomb-engineered two-dimensional metals. 2D Materials, 2021, 8, 035037.	2.0	6
9	Random phase approximation for gapped systems: Role of vertex corrections and applicability of the constrained random phase approximation. Physical Review B, 2021, 104, .	1.1	15
10	Environmental screening and ligand-field effects to magnetism in CrI_3 monolayer. Npj Computational Materials, 2021, 7, .	3.5	19
11	Electronic structure of chromium trihalides beyond density functional theory. Physical Review B, 2021, 104, .	1.1	18
12	Common microscopic origin of the phase transitions in Ta_2NiS_5 and the excitonic insulator candidate Ta_2NiSe_5 . Npj Computational Materials, 2021, 7, .	3.5	19
13	Importance of charge self-consistency in first-principles description of strongly correlated systems. Npj Computational Materials, 2021, 7, .	3.5	13
14	Coulomb-engineered heterojunctions and dynamical screening in transition metal dichalcogenide monolayers. Physical Review B, 2020, 102, .	1.1	12
15	Nature of Symmetry Breaking at the Excitonic Insulator Transition: Ta_2NiS_5 . Physical Review Letters, 2020, 124, 197601.	2.9	73
16	Localized plasmons in topological insulators. Physical Review B, 2020, 101, .	1.1	11
17	<i>Ab initio</i> phonon self-energies and fluctuation diagnostics of phonon anomalies: Lattice instabilities from Dirac pseudospin physics in transition metal dichalcogenides. Physical Review B, 2020, 101, .	1.1	13
18	Electronic and optical properties of transition metal dichalcogenides under symmetric and asymmetric field-effect doping. New Journal of Physics, 2020, 22, 083072.	1.2	13

#	ARTICLE	IF	CITATIONS
19	Rigid Band Shifts in Two-Dimensional Semiconductors through External Dielectric Screening. <i>Physical Review Letters</i> , 2019, 123, 206403.	2.9	65
20	Introducing strong correlation effects into graphene by gadolinium intercalation. <i>Physical Review B</i> , 2019, 100, .	1.1	55
21	Environmental Control of Charge Density Wave Order in Monolayer 2H-TaS ₂ . <i>ACS Nano</i> , 2019, 13, 10210-10220.	7.3	44
22	Internal screening and dielectric engineering in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	67
23	Atomic-scale quantification of charge densities in two-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	1.1	36
24	Competing Coulomb and electron-phonon interactions in NbS ₂ . <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	41
25	Electronic structure of single layer 1T-NbSe ₂ : interplay of lattice distortions, non-local exchange, and Mott-Hubbard correlations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 325601.	0.7	25
26	Frequency-dependent substrate screening of excitons in atomically thin transition metal dichalcogenide semiconductors. <i>Physical Review B</i> , 2018, 98, .	1.1	20
27	Observation of Exciton Redshift-Blueshift Crossover in Monolayer WS ₂ . <i>Nano Letters</i> , 2017, 17, 4210-4216.	4.5	107
28	Electric-Field Switchable Second-Harmonic Generation in Bilayer MoS ₂ by Inversion Symmetry Breaking. <i>Nano Letters</i> , 2017, 17, 392-398.	4.5	71
29	Exciton fission in monolayer transition metal dichalcogenide semiconductors. <i>Nature Communications</i> , 2017, 8, 1166.	5.8	142
30	Noninvasive control of excitons in two-dimensional materials. <i>Physical Review B</i> , 2017, 96, .	1.1	16
31	Analyzing ultrafast laser-induced demagnetization in Co/Cu(001) via the depth sensitivity of the time-resolved transversal magneto-optical Kerr effect. , 2016, , .		3
32	Nonequilibrium carrier dynamics in transition metal dichalcogenide semiconductors. <i>2D Materials</i> , 2016, 3, 031006.	2.0	30
33	Valley plasmonics in transition metal dichalcogenides. <i>Physical Review B</i> , 2016, 93, .	1.1	28
34	Interplay of screening and superconductivity in low-dimensional materials. <i>Physical Review B</i> , 2016, 94, .	1.1	13
35	Two-Dimensional Heterojunctions from Nonlocal Manipulations of the Interactions. <i>Nano Letters</i> , 2016, 16, 2322-2327.	4.5	80
36	Wannier function approach to realistic Coulomb interactions in layered materials and heterostructures. <i>Physical Review B</i> , 2015, 92, .	1.1	55

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37	Separation of ultrafast spin currents and spin-flip scattering in Co/Cu(001) driven by femtosecond laser excitation employing the complex magneto-optical Kerr effect. Physical Review B, 2015, 92, .	1.1	59
38	Electronic Structures and Optical Properties of Partially and Fully Fluorinated Graphene. Physical Review Letters, 2015, 114, 047403.	2.9	58
39	Efficient Excitonic Photoluminescence in Direct and Indirect Band Gap Monolayer MoS ₂ . Nano Letters, 2015, 15, 6841-6847.	4.5	171
40	Phase diagram of electron-doped dichalcogenides. Physical Review B, 2014, 90, .	1.1	59
41	Electronic Transport in Graphene with Aggregated Hydrogen Adatoms. Physical Review Letters, 2014, 113, 246601.	2.9	29
42	Influence of Excited Carriers on the Optical and Electronic Properties of MoS ₂ . Nano Letters, 2014, 14, 3743-3748.	4.5	213
43	Optimal Hubbard Models for Materials with Nonlocal Coulomb Interactions: Graphene, Silicene, and Benzene. Physical Review Letters, 2013, 111, 036601.	2.9	209
44	Strain in Epitaxial Graphene Visualized by Intercalation. Physical Review Letters, 2013, 110, 086111.	2.9	50