

Malte Rajsner

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,040
citations

279487

23
h-index

253896

43
g-index

44
all docs

44
docs citations

44
times ranked

3166
citing authors

#	ARTICLE	IF	CITATIONS
19	Atomic-scale quantification of charge densities in two-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	1.1	36
20	Nonequilibrium carrier dynamics in transition metal dichalcogenide semiconductors. <i>2D Materials</i> , 2016, 3, 031006.	2.0	30
21	Electronic Transport in Graphene with Aggregated Hydrogen Adatoms. <i>Physical Review Letters</i> , 2014, 113, 246601.	2.9	29
22	Valley plasmonics in transition metal dichalcogenides. <i>Physical Review B</i> , 2016, 93, .	1.1	28
23	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
24	Frequency-dependent substrate screening of excitons in atomically thin transition metal dichalcogenide semiconductors. <i>Physical Review B</i> , 2018, 98, .	1.1	20
25	Environmental screening and ligand-field effects to magnetism in CrI ₃ monolayer. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	19
26	Common microscopic origin of the phase transitions in Ta ₂ NiS ₅ and the excitonic insulator candidate Ta ₂ NiSe ₅ . <i>Npj Computational Materials</i> , 2021, 7, .	3.5	19
27	Electronic structure of chromium trihalides beyond density functional theory. <i>Physical Review B</i> , 2021, 104, .	1.1	18
28	Coexisting charge density wave and ferromagnetic instabilities in monolayer InSe. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	18
29	Quantum embedding methods for correlated excited states of point defects: Case studies and challenges. <i>Physical Review B</i> , 2022, 105, .	1.1	18
30	Noninvasive control of excitons in two-dimensional materials. <i>Physical Review B</i> , 2017, 96, .	1.1	16
31	Random phase approximation for gapped systems: Role of vertex corrections and applicability of the constrained random phase approximation. <i>Physical Review B</i> , 2021, 104, .	1.1	15
32	Interplay of screening and superconductivity in low-dimensional materials. <i>Physical Review B</i> , 2016, 94, .	1.1	13
33	<i>Ab initio</i> phonon self-energies and fluctuation diagnostics of phonon anomalies: Lattice instabilities from Dirac pseudospin physics in transition metal dichalcogenides. <i>Physical Review B</i> , 2020, 101, .	1.1	13
34	Electronic and optical properties of transition metal dichalcogenides under symmetric and asymmetric field-effect doping. <i>New Journal of Physics</i> , 2020, 22, 083072.	1.2	13
35	Importance of charge self-consistency in first-principles description of strongly correlated systems. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	13
36	Coulomb-engineered heterojunctions and dynamical screening in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2020, 102, .	1.1	12

#	ARTICLE	IF	CITATIONS
37	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
38	Localized plasmons in topological insulators. Physical Review B, 2020, 101, .	1.1	11
39	Dynamical correlations in single-layer CrI_3 . Physical Review B, 2022, 105, .	1.1	11
40	Inducing a many-body topological state of matter through Coulomb-engineered local interactions. Physical Review Research, 2021, 3, .	1.3	9
41	Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. Physical Review X, 2022, 12, .	2.8	8
42	Quantum dot-like plasmonic modes in twisted bilayer graphene supercells. 2D Materials, 2022, 9, 014004.	2.0	7
43	Plasmonic waveguides from Coulomb-engineered two-dimensional metals. 2D Materials, 2021, 8, 035037.	2.0	6
44	Analyzing ultrafast laser-induced demagnetization in Co/Cu(001) via the depth sensitivity of the time-resolved transversal magneto-optical Kerr effect. , 2016, , .		3