

Johannes Lischner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62
papers

1,467
citations

18
h-index

37
g-index

67
ext. papers

1,920
ext. citations

6.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
62	Lifetime effects and satellites in the photoelectron spectrum of tungsten metal. <i>Physical Review B</i> , 2022 , 105,	3.3	1
61	Unconventional superconductivity in magic-angle twisted trilayer graphene. <i>Npj Quantum Materials</i> , 2022 , 7,	5	4
60	Atomistic Hartree theory of twisted double bilayer graphene near the magic angle. <i>Electronic Structure</i> , 2022 , 4, 025001	2.6	0
59	Substitutional Tin Acceptor States in Black Phosphorus. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22883-22889	3.2	0
58	Imaging Reconfigurable Molecular Concentration on a Graphene Field-Effect Transistor. <i>Nano Letters</i> , 2021 , 21, 8770-8776	11.5	1
57	Importance of long-ranged electron-electron interactions for the magnetic phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	7
56	Layer-resolved many-electron interactions in delafossite PdCoO ₂ from standing-wave photoemission spectroscopy. <i>Communications Physics</i> , 2021 , 4,	5.4	1
55	Light-Induced Charge Transfer from Transition-Metal-Doped Aluminum Clusters to Carbon Dioxide. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 5878-5885	2.8	0
54	Dielectric Engineering of Hot-Carrier Generation by Quantized Plasmons in Embedded Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3081-3087	3.8	0
53	Flat band properties of twisted transition metal dichalcogenide homo- and heterobilayers of MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ . <i>2D Materials</i> , 2021 , 8, 045010	5.9	8
52	Flat bands, electron interactions, and magnetic order in magic-angle mono-trilayer graphene. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
51	Optical read-out of Coulomb staircases in a moiré superlattice via trapped interlayer trions. <i>Nature Nanotechnology</i> , 2021 , 16, 1237-1243	28.7	6
50	Core Electron Binding Energies in Solids from Periodic All-Electron Self-Consistent-Field Calculations. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9353-9359	6.4	7
49	Generation of plasmonic hot carriers from d-bands in metallic nanoparticles. <i>Journal of Chemical Physics</i> , 2020 , 152, 104111	3.9	6
48	Resonant and bound states of charged defects in two-dimensional semiconductors. <i>Physical Review B</i> , 2020 , 101,	3.3	10
47	Untying the insulating and superconducting orders in magic-angle graphene. <i>Nature</i> , 2020 , 583, 375-378	50.4	136
46	Critical role of device geometry for the phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	14

45	Gate-Tunable Reversible Rashba-Edelstein Effect in a Few-Layer Graphene/2H-TaS Heterostructure at Room Temperature. <i>ACS Nano</i> , 2020 , 14, 5251-5259	16.7	25
44	A molecular shift register made using tunable charge patterns in one-dimensional molecular arrays on graphene. <i>Nature Electronics</i> , 2020 , 3, 598-603	28.4	3
43	Hartree theory calculations of quasiparticle properties in twisted bilayer graphene. <i>Electronic Structure</i> , 2020 , 2, 034001	2.6	16
42	Effect of bilayer stacking on the atomic and electronic structure of twisted double bilayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	12
41	Frontier orbitals and quasiparticle energy levels in ionic liquids. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	2
40	Twist-angle sensitivity of electron correlations in moiré graphene bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	22
39	Multiscale modelling of charged impurities in two-dimensional materials. <i>Computational Materials Science</i> , 2019 , 160, 368-373	3.2	4
38	Single plasmon hot carrier generation in metallic nanoparticles. <i>Communications Physics</i> , 2019 , 2,	5.4	15
37	Coexistence of Different Charge-Transfer Mechanisms in the Hot-Carrier Dynamics of Hybrid Plasmonic Nanomaterials. <i>Nano Letters</i> , 2019 , 19, 3187-3193	11.5	23
36	Insights into the electronic structure of OsO ₂ using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
35	Accurate absolute core-electron binding energies of molecules, solids, and surfaces from first-principles calculations. <i>Physical Review Materials</i> , 2019 , 3,	3.2	20
34	Electron-phonon coupling and hot electron thermalization in titanium nitride. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
33	Attractive electron-electron interactions from internal screening in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	16
32	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4585-4589	16.4	18
31	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie</i> , 2018 , 130, 4675-4679	3.6	4
30	Material, Size, and Environment Dependence of Plasmon-Induced Hot Carriers in Metallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8517-8527	3.8	45
29	Computational design of bimetallic core-shell nanoparticles for hot-carrier photocatalysis. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	12
28	Impact of complex adatom-induced interactions on quantum spin Hall phases. <i>Physical Review B</i> , 2018 , 98,	3.3	12

27	New Pathway for Hot Electron Relaxation in Two-Dimensional Heterostructures. <i>Nano Letters</i> , 2018 , 18, 6057-6063	11.5	37
26	Core electron binding energies of adsorbates on Cu(111) from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30403-30411	3.6	14
25	Strong correlations and d+id superconductivity in twisted bilayer graphene. <i>Physical Review B</i> , 2018 , 98,	3.3	110
24	Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. <i>Physical Review B</i> , 2018 , 98,	3.3	3
23	Tuning electronic properties of transition-metal dichalcogenides via defect charge. <i>Scientific Reports</i> , 2018 , 8, 13611	4.9	10
22	Microwave Study of Field-Effect Devices Based on Graphene/Aluminum Nitride/Graphene Structures. <i>Scientific Reports</i> , 2017 , 7, 44202	4.9	4
21	First-principles multiscale modelling of charged adsorbates on doped graphene. <i>2D Materials</i> , 2017 , 4, 025070	5.9	10
20	Energy level alignment at semiconductor/water interfaces from atomistic and continuum solvation models. <i>RSC Advances</i> , 2017 , 7, 43660-43670	3.7	13
19	Spatially resolving density-dependent screening around a single charged atom in graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	12
18	Tuning charge and correlation effects for a single molecule on a graphene device. <i>Nature Communications</i> , 2016 , 7, 13553	17.4	66
17	Dispersion and line shape of plasmon satellites in one, two, and three dimensions. <i>Physical Review B</i> , 2016 , 93,	3.3	12
16	Spectral functions of the uniform electron gas via coupled-cluster theory and comparison to the GW and related approximations. <i>Physical Review B</i> , 2016 , 93,	3.3	62
15	Accurate determination of the valence band edge in hard x-ray photoemission spectra using GW theory. <i>Journal of Applied Physics</i> , 2016 , 119, 165703	2.5	4
14	Satellite band structure in silicon caused by electron-plasmon coupling. <i>Physical Review B</i> , 2015 , 91,	3.3	36
13	GW100: Benchmarking G0W0 for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5665-87	6.4	207
12	Numerical integration for ab initio many-electron self energy calculations within the GW approximation. <i>Journal of Computational Physics</i> , 2015 , 286, 1-13	4.1	11
11	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. <i>Physical Review B</i> , 2015 , 91,	3.3	12
10	Boron Doped diamond films as electron donors in photovoltaics: An X-ray absorption and hard X-ray photoemission study. <i>Journal of Applied Physics</i> , 2014 , 116, 143702	2.5	7

9	Effects of self-consistency and plasmon-pole models on GW calculations for closed-shell molecules. <i>Physical Review B</i> , 2014 , 90,	3-3	21
8	ab initio study of hot carriers in the first picosecond after sunlight absorption in silicon. <i>Physical Review Letters</i> , 2014 , 112, 257402	7-4	166
7	Satellite structures in the spectral functions of the two-dimensional electron gas in semiconductor quantum wells: A GW plus cumulant study. <i>Physical Review B</i> , 2014 , 89,	3-3	16
6	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. <i>Physical Review B</i> , 2014 , 89,	3-3	6
5	Physical origin of satellites in photoemission of doped graphene: an ab initio GW plus cumulant study. <i>Physical Review Letters</i> , 2013 , 110, 146801	7-4	82
4	First-principles calculations of quasiparticle excitations of open-shell condensed matter systems. <i>Physical Review Letters</i> , 2012 , 109, 036406	7-4	23
3	Material limitations of carbon-nanotube inertial balances: Possibility of intrinsic yoctogram mass resolution at room temperature. <i>Physical Review B</i> , 2010 , 81,	3-3	14
2	Classical density-functional theory of inhomogeneous water including explicit molecular structure and nonlinear dielectric response. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1946-53	3-4	22
1	Kohn-Sham-like approach toward a classical density-functional theory of inhomogeneous polar molecular liquids: an application to liquid hydrogen chloride. <i>Physical Review Letters</i> , 2008 , 101, 216401	7-4	13