

Florian Libisch

List of Publications by Citations

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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.

82
papers

4,623
citations

31
h-index

67
g-index

89
ext. papers

5,485
ext. citations

8.5
avg, IF

5.62
L-index

#	Paper	IF	Citations
82	Hot electrons do the impossible: plasmon-induced dissociation of H ₂ on Au. <i>Nano Letters</i> , 2013 , 13, 240-244	11.5	1091
81	Photovoltaic effect in an electrically tunable van der Waals heterojunction. <i>Nano Letters</i> , 2014 , 14, 4785-4789	11.5	759
80	Dynamically encircling an exceptional point for asymmetric mode switching. <i>Nature</i> , 2016 , 537, 76-79	50.4	414
79	The multiradical character of one- and two-dimensional graphene nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2581-4	16.4	168
78	Embedded correlated wavefunction schemes: theory and applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 2768-75	24.3	160
77	Graphene quantum dots: Beyond a Dirac billiard. <i>Physical Review B</i> , 2009 , 79,	3.3	133
76	Origin of the energy barrier to chemical reactions of O ₂ on Al(111): evidence for charge transfer, not spin selection. <i>Physical Review Letters</i> , 2012 , 109, 198303	7.4	109
75	Wave-function mapping of graphene quantum dots with soft confinement. <i>Physical Review Letters</i> , 2012 , 108, 046801	7.4	106
74	Electron-hole crossover in graphene quantum dots. <i>Physical Review Letters</i> , 2009 , 103, 046810	7.4	105
73	Ultrafast electronic response of graphene to a strong and localized electric field. <i>Nature Communications</i> , 2016 , 7, 13948	17.4	91
72	Energy of the Th nuclear clock transition. <i>Nature</i> , 2019 , 573, 243-246	50.4	78
71	Size-extensivity-corrected multireference configuration interaction schemes to accurately predict bond dissociation energies of oxygenated hydrocarbons. <i>Journal of Chemical Physics</i> , 2014 , 140, 044317	3.9	75
70	Electrostatically Confined Monolayer Graphene Quantum Dots with Orbital and Valley Splittings. <i>Nano Letters</i> , 2016 , 16, 5798-805	11.5	72
69	Size quantization of Dirac fermions in graphene constrictions. <i>Nature Communications</i> , 2016 , 7, 11528	17.4	56
68	A comparison of singlet and triplet states for one- and two-dimensional graphene nanoribbons using multireference theory. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	51
67	Probing decoherence through Fano resonances. <i>Physical Review Letters</i> , 2010 , 105, 056801	7.4	51
66	Two-Color Coherent Control of Femtosecond Above-Threshold Photoemission from a Tungsten Nanotip. <i>Physical Review Letters</i> , 2016 , 117, 217601	7.4	45

65	Coherent transport through graphene nanoribbons in the presence of edge disorder. <i>New Journal of Physics</i> , 2012 , 14, 123006	2.9	45
64	Localized Intervalley Defect Excitons as Single-Photon Emitters in WSe ₂ . <i>Physical Review Letters</i> , 2019 , 123, 146401	7.4	44
63	Tunable Fano resonances in transport through microwave billiards. <i>Physical Review E</i> , 2004 , 69, 046208	2.4	43
62	Absolute timing of the photoelectric effect. <i>Nature</i> , 2018 , 561, 374-377	50.4	43
61	High-harmonic generation in graphene: Interband response and the harmonic cutoff. <i>Physical Review B</i> , 2017 , 95,	3.3	42
60	Large tunable valley splitting in edge-free graphene quantum dots on boron nitride. <i>Nature Nanotechnology</i> , 2018 , 13, 392-397	28.7	40
59	The single-channel regime of transport through random media. <i>Nature Communications</i> , 2014 , 5, 3488	17.4	40
58	Characterizing wave functions in graphene nanodevices: Electronic transport through ultrashort graphene constrictions on a boron nitride substrate. <i>Physical Review B</i> , 2014 , 90,	3.3	36
57	Transition to Landau levels in graphene quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	36
56	Implementation of density functional embedding theory within the projector-augmented-wave method and applications to semiconductor defect states. <i>Journal of Chemical Physics</i> , 2015 , 143, 102806 ³⁻⁹		34
55	Graphene quantum dot on boron nitride: Dirac cone replica and Hofstadter butterfly. <i>Physical Review B</i> , 2014 , 90,	3.3	34
54	Dissociative Adsorption of O ₂ on Al(111): The Role of Orientational Degrees of Freedom. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1661-5	6.4	32
53	Generating particlelike scattering states in wave transport. <i>Physical Review Letters</i> , 2011 , 106, 120602	7.4	31
52	Phonon renormalization in reconstructed MoS ₂ moiré superlattices. <i>Nature Materials</i> , 2021 , 20, 1100-1105 ²⁷		31
51	Dissociative Chemisorption of O on Al(111): Dynamics on a Correlated Wave-Function-Based Potential Energy Surface. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3271-3277	6.4	28
50	Nonlinear response of graphene to a few-cycle terahertz laser pulse: Role of doping and disorder. <i>Physical Review B</i> , 2016 , 94,	3.3	24
49	Topologically Nontrivial Valley States in Bilayer Graphene Quantum Point Contacts. <i>Physical Review Letters</i> , 2018 , 121, 257702	7.4	23
48	Angular-momentum-dependent orbital-free density functional theory. <i>Physical Review Letters</i> , 2013 , 111, 066402	7.4	22

47	Electron-Transfer-Induced Dissociation of H ₂ on Gold Nanoparticles: Excited-State Potential Energy Surfaces via Embedded Correlated Wavefunction Theory. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013 , 130708000310008	3.1	21
46	Der Multiradikalcharakter ein- und zweidimensionaler Graphen-Nanobänder. <i>Angewandte Chemie</i> , 2013 , 125, 2641-2644	3.6	21
45	Observation of the Spin-Orbit Gap in Bilayer Graphene by One-Dimensional Ballistic Transport. <i>Physical Review Letters</i> , 2020 , 124, 177701	7.4	20
44	Topological insulator in the presence of spatially correlated disorder. <i>Physical Review B</i> , 2013 , 88,	3.3	20
43	High visibility in two-color above-threshold photoemission from tungsten nanotips in a coherent control scheme. <i>Journal of Modern Optics</i> , 2017 , 64, 1054-1060	1.1	17
42	Electron-Hole Crossover in Gate-Controlled Bilayer Graphene Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 7709-7715	11.5	17
41	Embedding for bulk systems using localized atomic orbitals. <i>Journal of Chemical Physics</i> , 2017 , 147, 034113	3.9	16
40	Time-dependent potential-functional embedding theory. <i>Journal of Chemical Physics</i> , 2014 , 140, 124113	3.9	16
39	Angular momentum dependent orbital-free density functional theory: Formulation and implementation. <i>Physical Review B</i> , 2014 , 89,	3.3	15
38	Potential Functional Embedding Theory at the Correlated Wave Function Level. 1. Mixed Basis Set Embedding. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1067-1080	6.4	14
37	Band Nesting in Two-Dimensional Crystals: An Exceptionally Sensitive Probe of Strain. <i>Nano Letters</i> , 2020 , 20, 4242-4248	11.5	14
36	Magneto-optical response of graphene: Probing substrate interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	14
35	Negative quantum capacitance in graphene nanoribbons with lateral gates. <i>Physical Review B</i> , 2014 , 89,	3.3	13
34	Potential Functional Embedding Theory at the Correlated Wave Function Level. 2. Error Sources and Performance Tests. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1081-1093	6.4	12
33	Impact of Many-Body Effects on Landau Levels in Graphene. <i>Physical Review Letters</i> , 2018 , 120, 187701	7.4	12
32	Fano resonances and decoherence in transport through quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 325-333	3	12
31	Local embedding of coupled cluster theory into the random phase approximation using plane waves. <i>Journal of Chemical Physics</i> , 2021 , 154, 011101	3.9	12
30	Mirror symmetry breaking and lateral stacking shifts in twisted trilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	11

29	Semiclassical wave functions for open quantum billiards. <i>Physical Review E</i> , 2013 , 88, 022916	2.4	10
28	Veselago lens and Klein collimator in disordered graphene. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 114002	1.8	10
27	Disorder scattering in graphene nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2598-2603	6.3	10
26	Atomic-Scale Carving of Nanopores into a van der Waals Heterostructure with Slow Highly Charged Ions. <i>ACS Nano</i> , 2020 , 14, 10536-10543	16.7	10
25	Accurate modeling of defects in graphene transport calculations. <i>Physical Review B</i> , 2018 , 97,	3.3	9
24	Percolating states in the topological Anderson insulator. <i>Physical Review B</i> , 2015 , 91,	3.3	9
23	Surface scattering and band gaps in rough waveguides and nanowires. <i>Physical Review B</i> , 2012 , 86,	3.3	9
22	Corrigendum to: Plasmon-Driven Dissociation of H ₂ on Gold Nanoclusters. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 131-132	3.1	8
21	Shared-memory parallelization of a local correlation multi-reference CI program. <i>Computer Physics Communications</i> , 2014 , 185, 3175-3188	4.2	8
20	Bound states in Andreev billiards with soft walls. <i>Physical Review B</i> , 2005 , 72,	3.3	8
19	Density functional embedding for periodic and nonperiodic diffusion Monte Carlo calculations. <i>Physical Review B</i> , 2018 , 98,	3.3	7
18	Time-Dependent Screening Explains the Ultrafast Excitonic Signal Rise in 2D Semiconductors. <i>ACS Nano</i> , 2021 , 15, 1179-1185	16.7	7
17	Analysis of and remedies for unphysical ground states of the multireference averaged coupled-pair functional. <i>Journal of Chemical Physics</i> , 2014 , 140, 024102	3.9	6
16	Energy landscapes of graphene under general deformations: DFT-to-hyperelasticity upscaling. <i>International Journal of Engineering Science</i> , 2020 , 154, 103342	5.7	6
15	Electrostatic Detection of Shubnikov-De Haas Oscillations in Bilayer Graphene by Coulomb Resonances in Gate-Defined Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000333	1.3	5
14	Challenges of modeling nanostructured materials for photocatalytic water splitting.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	5
13	Numerical Challenges in a Cholesky-Decomposed Local Correlation Quantum Chemistry Framework 2015 , 59-91		4
12	Non-retracing orbits in Andreev billiards. <i>Physical Review B</i> , 2006 , 73,	3.3	4

11	Secondary Electron Emission by Plasmon-Induced Symmetry Breaking in Highly Oriented Pyrolytic Graphite. <i>Physical Review Letters</i> , 2020 , 125, 196603	7.4	3
10	Decreasing excitation gap in Andreev billiards by disorder scattering. <i>Europhysics Letters</i> , 2008 , 82, 47006.6	6.6	3
9	The speed limit of optoelectronics.. <i>Nature Communications</i> , 2022 , 13, 1620	17.4	3
8	Diffractive-wave guiding of surface electrons on Au(111) by the herringbone reconstruction potential. <i>Physical Review B</i> , 2014 , 90,	3.3	2
7	A membrane theory for circular graphene sheets, based on a hyperelastic material model for large deformations. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 1-11	1.8	2
6	Transport through graphene nanoribbons: Suppression of transverse quantization by symmetry breaking. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2366-2372	1.3	2
5	Chladni figures in Andreev billiards. <i>European Physical Journal: Special Topics</i> , 2007 , 145, 245-254	2.3	1
4	A Modular Method for the Efficient Calculation of Ballistic Transport Through Quantum Billiards. <i>Lecture Notes in Computer Science</i> , 2006 , 586-593	0.9	1
3	Graphene nanoribbons with wings. <i>Applied Physics Letters</i> , 2015 , 107, 203107	3.4	0
2	Two-color phase-controlled photoemission from a zero-dimensional nanostructure. <i>EPJ Web of Conferences</i> , 2019 , 205, 05004	0.3	
1	Coherent control of two-color above-threshold photoemission from tungsten nanotips. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 042006	0.3	