Steven G Louie

List of Publications by Year in descending order

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296 papers	60,374 citations	1704 104 h-index	893 242 g-index
304 all docs	304 docs citations	304 times ranked	37495 citing authors

#	Article	IF	Citations
1	Intervalley Excitonic Hybridization, Optical Selection Rules, and Imperfect Circular Dichroism in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>h</mml:mi><mml:mtext>â€“</mml:mtext><mml:mi>BN</mml:mi></mml:mrow></mml:math> Optical Review Letters, 2022, 128, 047402.	7.8	11
2	Optical and magneto-optical properties of ferromagnetic monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrBr</mml:mi><mml:mn>3</mml:mn></mml:msub></mm : A first-principles <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:n and <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:n	2.4	12
3	Theory of exciton-phonon coupling. Physical Review B, 2022, 105, .	3.2	40
4	Multiple strong topological gaps and hexagonal warping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:n Physical Review B, 2022, 105, .	3.2	4
5	Quasiparticle energies and optical excitations of 3C-SiC divacancy from <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></mm:m and <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></mm:m plus Bethe Salpeter equationÂcalculations. Physical Review Materials, 2022, 6, .	2.4	6
6	Many-body effects in the X-ray absorption spectra of liquid water. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201258119.	7.1	11
7	Unconventional excitonic states with phonon sidebands in layered silicon diphosphide. Nature Materials, 2022, 21, 773-778.	27.5	20
8	Tuning colour centres at a twisted hexagonal boron nitride interface. Nature Materials, 2022, 21, 896-902.	27.5	31
9	Topology Classification using Chiral Symmetry and Spin Correlations in Graphene Nanoribbons. Nano Letters, 2021, 21, 197-202.	9.1	27
10	Solving the Bethe-Salpeter equation on a subspace: Approximations and consequences for low-dimensional materials. Physical Review B, 2021, 103, .	3.2	9
11	Imaging moirÃ© flat bands in three-dimensional reconstructed WSe2/WS2 superlattices. Nature Materials, 2021, 20, 945-950.	27.5	118
12	Unmasking the Origin of Kinks in the Photoemission Spectra of Cuprate Superconductors. Physical Review Letters, 2021, 126, 146401.	7.8	16
13	Discovering and understanding materials through computation. Nature Materials, 2021, 20, 728-735.	27.5	60
14	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. ACS Nano, 2021, 15, 8780-8789.	14.6	52
15	Giant exciton-enhanced shift currents and direct current conduction with subbandgap photo excitations produced by many-electron interactions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	36
16	Evidence for quantum spin liquid behaviour in single-layer 1T-TaSe2 from scanning tunnelling microscopy. Nature Physics, 2021, 17, 1154-1161.	16.7	74
17	Imaging local discharge cascades for correlated electrons in WS2/WSe2 moirÃ© superlattices. Nature Physics, 2021, 17, 1114-1119.	16.7	36
18	Narrow-band high-lying excitonsÂwith negative-mass electrons in monolayer WSe2. Nature Communications, 2021, 12, 5500.	12.8	29

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19	Topological Phases in Graphene Nanoribbons Tuned by Electric Fields. Physical Review Letters, 2021, 127, 166401.	7.8	20
20	Rationally Designed Topological Quantum Dots in Bottom-Up Graphene Nanoribbons. ACS Nano, 2021, 15, 20633-20642.	14.6	22
21	Spin splitting of dopant edge state in magnetic zigzag graphene nanoribbons. Nature, 2021, 600, 647-652.	27.8	91
22	Pseudo-atomic orbital behavior in graphene nanoribbons with four-membered rings. Science Advances, 2021, 7, eabl5892.	10.3	11
23	Tunnel-FET Switching Is Governed by Non-Lorentzian Spectral Line Shape. Proceedings of the IEEE, 2020, 108, 1235-1244.	21.3	7
24	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. Nano Letters, 2020, 20, 1124-1130.	9.1	21
25	Strong correlations and orbital texture in single-layer 1T-TaSe2. Nature Physics, 2020, 16, 218-224.	16.7	126
26	Inducing metallicity in graphene nanoribbons via zero-mode superlattices. Science, 2020, 369, 1597-1603.	12.6	127
27	Predominance of non-adiabatic effects in zero-point renormalization of the electronic band gap. Npj Computational Materials, 2020, 6, .	8.7	65
28	Comparison of <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 band structure to semiempirical approach for an FeSe monolayer. Physical Review B, 2020, 101, .	3.2	6
29	Reproducibility in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1825" altimg="si271.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>G</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn> calculations for solids. Computer Physics Communications, 2020, 255, 107242.	7.5	36
30	Band gap renormalization, carrier mobilities, and the electron-phonon self-energy in crystalline naphthalene. Physical Review B, 2020, 101, .	3.2	26
31	Bottom-up Assembly of Nanoporous Graphene with Emergent Electronic States. Journal of the American Chemical Society, 2020, 142, 13507-13514.	13.7	77
32	Universal slow plasmons and giant field enhancement in atomically thin quasi-two-dimensional metals. Nature Communications, 2020, 11, 1013.	12.8	53
33	Covalent Câ€“N Bond Formation through a Surface Catalyzed Thermal Cyclodehydrogenation. Journal of the American Chemical Society, 2020, 142, 3696-3700.	13.7	27
34	A molecular shift register made using tunable charge patterns in one-dimensional molecular arrays on graphene. Nature Electronics, 2020, 3, 598-603.	26.0	12
35	Polaron spectral properties in doped ZnO and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub> from first principles. Physical Review Research, 2020, 2, .	3.6	6
36	Direct observation of Klein tunneling in phononic crystals. Science, 2020, 370, 1447-1450.	12.6	73

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37	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 123, 076801.	7.8	120
38	Valley-dependent exciton fine structure and Autlerâ€“Townes doublets from Berry phases in monolayer MoSe2. Nature Materials, 2019, 18, 1065-1070.	27.5	34
39	Identifying substitutional oxygen as a prolific point defect in monolayer transition metal dichalcogenides. Nature Communications, 2019, 10, 3382.	12.8	196
40	Momentum-Resolved Dielectric Response of Free-Standing Mono-, Bi-, and Trilayer Black Phosphorus. Nano Letters, 2019, 19, 8303-8310.	9.1	27
41	Nonuniversal critical behavior in disordered pseudospin-1 systems. Physical Review B, 2019, 99, .	3.2	8
42	Accelerating GW-Based Energy Level Alignment Calculations for Moleculeâ€“Metal Interfaces Using a Substrate Screening Approach. Journal of Chemical Theory and Computation, 2019, 15, 4218-4227.	5.3	34
43	Physical origin of giant excitonic and magneto-optical responses in two-dimensional ferromagnetic insulators. Nature Communications, 2019, 10, 2371.	12.8	101
44	Electron-Phonon Coupling from AbÂInitio Linear-Response Theory within the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math> Method: Correlation-Enhanced Interactions and Superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn>	7.8	70
45	Length-Dependent Evolution of Type II Heterojunctions in Bottom-Up-Synthesized Graphene Nanoribbons. Nano Letters, 2019, 19, 3221-3228.	9.1	41
46	Static subspace approximation for the evaluation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>G</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:mrow></mml:math> quasiparticle energies within a sum-over-bands approach. Physical Review B, 2019, 99, .	3.2	10
47	Insulating titanium oxynitride for visible light photocatalysis. Physical Review B, 2019, 99, .	3.2	12
48	Geometry and electronic structure of iridium adsorbed on graphene. Physical Review B, 2019, 99, .	3.2	14
49	Layer-Dependent Electronic Structure of Atomically Resolved Two-Dimensional Gallium Selenide Telluride. Nano Letters, 2019, 19, 1782-1787.	9.1	12
50	A dielectric-defined lateral heterojunction in a monolayer semiconductor. Nature Electronics, 2019, 2, 60-65.	26.0	95
51	Large-scale GW calculations on pre-exascale HPC systems. Computer Physics Communications, 2019, 235, 187-195.	7.5	35
52	Exchange-driven intravalley mixing of excitons in monolayer transition metal dichalcogenides. Nature Physics, 2019, 15, 228-232.	16.7	68
53	Comparing time-dependent density functional theory with many-body perturbation theory for semiconductors: Screened range-separated hybrids and the <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:math> plus Bethe-Salpeter approach. Physical Review Materials, 2019, 3, .	2.4	61
54	Pseudospin-1 Physics of Photonic Crystals. Research, 2019, 2019, 3054062.	5.7	13

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55	Orbital Symmetry and the Optical Response of Single-Layer MX Monochalcogenides. Nano Letters, 2018, 18, 1925-1929.	9.1	41
56	Unifying Optical Selection Rules for Excitons in Two Dimensions: Band Topology and Winding Numbers. Physical Review Letters, 2018, 120, 087402.	7.8	52
57	Hierarchical On-Surface Synthesis of Graphene Nanoribbon Heterojunctions. ACS Nano, 2018, 12, 2193-2200.	14.6	75
58	Low-lying excited states in crystalline perylene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 284-289.	7.1	35
59	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. 2D Materials, 2018, 5, 021002.	4.4	75
60	Orbitally Matched Edge-Doping in Graphene Nanoribbons. Journal of the American Chemical Society, 2018, 140, 807-813.	13.7	64
61	Topological Phases in Cove-Edged and Chevron Graphene Nanoribbons: Geometric Structures, Z₂ Invariants, and Junction States. Nano Letters, 2018, 18, 7247-7253.	9.1	55
62	Defect-Induced Modification of Low-Lying Excitons and Valley Selectivity in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2018, 121, 167402.	7.8	109
63	A Structure Preserving Lanczos Algorithm for Computing the Optical Absorption Spectrum. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 683-711.	1.4	12
64	Concentration Dependence of Dopant Electronic Structure in Bottom-up Graphene Nanoribbons. Nano Letters, 2018, 18, 3550-3556.	9.1	31
65	Inversion symmetry and bulk Rashba effect in methylammonium lead iodide perovskite single crystals. Nature Communications, 2018, 9, 1829.	12.8	189
66	Topological band engineering of graphene nanoribbons. Nature, 2018, 560, 204-208.	27.8	452
67	Nonuniform sampling schemes of the Brillouin zone for many-electron perturbation-theory calculations in reduced dimensionality. Physical Review B, 2017, 95, .	3.2	78
68	Spontaneous twisting of a collapsed carbon nanotube. Nano Research, 2017, 10, 1942-1949.	10.4	12
69	Ab initio Modelling of Plasmons in Metalâ€semiconductor Bilayer Transitionâ€metal Dichalcogenide Heterostructures. Israel Journal of Chemistry, 2017, 57, 540-546.	2.3	4
70	Alternative structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml with higher energy valence band edge. Physical Review B, 2017, 95, .	3.2	9
71	Generation of Anisotropic Massless Dirac Fermions and Asymmetric Klein Tunneling in Few-Layer Black Phosphorus Superlattices. Nano Letters, 2017, 17, 2280-2286.	9.1	52
72	High thermoelectric power factor in two-dimensional crystals of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	201

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73	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. Nature, 2017, 546, 265-269.	27.8	3,260
74	Anomalous Anderson localization behaviors in disordered pseudospin systems. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4087-4092.	7.1	27
75	Atomically precise graphene nanoribbon heterojunctions from a single molecular precursor. Nature Nanotechnology, 2017, 12, 1077-1082.	31.5	162
76	Dynamics of Symmetry-Breaking Stacking Boundaries in Bilayer MoS₂. Journal of Physical Chemistry C, 2017, 121, 22559-22566.	3.1	22
77	Topological Phases in Graphene Nanoribbons: Junction States, Spin Centers, and Quantum Spin Chains. Physical Review Letters, 2017, 119, 076401.	7.8	235
78	Tunable excitons in bilayer graphene. Science, 2017, 358, 907-910.	12.6	126
79	Magnetic brightening and control of dark excitons in monolayer WSe2. Nature Nanotechnology, 2017, 12, 883-888.	31.5	315
80	Symmetry rules shaping spin-orbital textures in surface states. Physical Review B, 2017, 95, .	3.2	9
81	Environmental Screening Effects in 2D Materials: Renormalization of the Bandgap, Electronic Structure, and Optical Spectra of Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 4706-4712.	9.1	155
82	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	31.5	625
83	Origins of Singlet Fission in Solid Pentacene from an abÂinitio Greenâ€™s Function Approach. Physical Review Letters, 2017, 119, 267401.	7.8	55
84	Quasiparticle energies and dielectric functions of diamond polytypes. Physical Review Materials, 2017, 1, .	2.4	5
85	Real-space study of the optical absorption in alternative phases of silicon. Physical Review Materials, 2017, 1, .	2.4	2
86	Low rank approximation in G 0 W 0 calculations. Science China Mathematics, 2016, 59, 1593-1612.	1.7	14
87	Temperature-Induced Topological Phase Transitions: Promoted versus Suppressed Nontrivial Topology. Physical Review Letters, 2016, 117, 246401.	7.8	39
88	Excitation spectra of aromatic molecules within a real-space<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:n formalism: Role of self-consistency and vertex corrections. Physical Review B, 2016, 94, .	3.2	53
89	Automated construction of maximally localized Wannier functions for bands with nontrivial topology. Physical Review B, 2016, 94, .	3.2	4
90	Formation and Dynamics of Electron-Irradiation-Induced Defects in Hexagonal Boron Nitride at Elevated Temperatures. Nano Letters, 2016, 16, 7142-7147.	9.1	49

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91	Electrostatically Driven Nanoballoon Actuator. Nano Letters, 2016, 16, 6787-6791.	9.1	16
92	Ab initioelectronic relaxation times and transport in noble metals. Physical Review B, 2016, 94, .	3.2	56
93	Gate Switchable Transport and Optical Anisotropy in 90Â° Twisted Bilayer Black Phosphorus. Nano Letters, 2016, 16, 5542-5546.	9.1	71
94	Tuning charge and correlation effects for a single molecule on a graphene device. Nature Communications, 2016, 7, 13553.	12.8	82
95	Dispersion and line shape of plasmon satellites in one, two, and three dimensions. Physical Review B, 2016, 93, .	3.2	15
96	Klein tunneling and supercollimation of pseudospin-1 electromagnetic waves. Physical Review B, 2016, 93, .	3.2	93
97	Spectral functions of the uniform electron gas via coupled-cluster theory and comparison to the<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></mm related approximations. Physical Review B, 2016, 93, .	3.2	70
98	Screening and many-body effects in two-dimensional crystals: Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2016, 93, .	3.2	298
99	Proposal for a bulk material based on a monolayer FeSe on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:msub><m superconductor. Physical Review B, 2016, 93, .	3.2	16
100	Effective mass in bilayer graphene at low carrier densities: The role of potential disorder and electron-electron interaction. Physical Review B, 2016, 94, .	3.2	16
101	Bottom-Up Synthesis of N = 13 Sulfur-Doped Graphene Nanoribbons. Journal of Physical Chemistry C, 2016, 120, 2684-2687.	3.1	119
102	SU(4) symmetry breaking revealed by magneto-optical spectroscopy in epitaxial graphene. Physical Review B, 2015, 91, .	3.2	2
103	Automated construction of maximally localized Wannier functions: Optimized projection functions method. Physical Review B, 2015, 92, .	3.2	33
104	Theory and computation of hot carriers generated by surface plasmon polaritons in noble metals. Nature Communications, 2015, 6, 7044.	12.8	317
105	Nonanalyticity, Valley Quantum Phases, and Lightlike Exciton Dispersion in Monolayer Transition Metal Dichalcogenides: Theory and First-Principles Calculations. Physical Review Letters, 2015, 115, 176801.	7.8	196
106	Numerical integration for ab initio many-electron self energy calculations within the GW approximation. Journal of Computational Physics, 2015, 286, 1-13.	3.8	15
107	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. Physical Review B, 2015, 91, .	3.2	13
108	Molecular bandgap engineering of bottom-up synthesized graphene nanoribbon heterojunctions. Nature Nanotechnology, 2015, 10, 156-160.	31.5	414

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109	Tunable Magnetism and Half-Metallicity in Hole-Doped Monolayer GaSe. Physical Review Letters, 2015, 114, 236602.	7.8	350
110	Satellite band structure in silicon caused by electron-plasmon coupling. Physical Review B, 2015, 91, .	3.2	43
111	Site-Specific Substitutional Boron Doping of Semiconducting Armchair Graphene Nanoribbons. Journal of the American Chemical Society, 2015, 137, 8872-8875.	13.7	213
112	Ab initio study of hot electrons in GaAs. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5291-5296.	7.1	104
113	Probing the Role of Interlayer Coupling and Coulomb Interactions on Electronic Structure in Few-Layer MoSe₂ Nanostructures. Nano Letters, 2015, 15, 2594-2599.	9.1	136
114	Molecular Self-Assembly in a Poorly Screened Environment: F₄TCNQ on Graphene/BN. ACS Nano, 2015, 9, 12168-12173.	14.6	45
115	GW100: Benchmarking G₀W₀ for Molecular Systems. Journal of Chemical Theory and Computation, 2015, 11, 5665-5687.	5.3	280
116	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	14.6	2,069
117	Large electronâ€“phonon interactions from FeSe phonons in a monolayer. New Journal of Physics, 2015, 17, 073027.	2.9	73
118	Excitonic Dark States in Single Atomic Layer of Transition Metal Dichalcogenide. , 2014, , .		1
119	Systematic determination of absolute absorption cross-section of individual carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7564-7569.	7.1	69
120	Improved quasiparticle wave functions and mean field for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>G</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:mrow></mml:math> Initialization with the COHSEX operator. Physical Review B, 2014, 90, .	3.2	14
121	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. Physical Review B, 2014, 89, .	3.2	11
122	Ab initioquasiparticle band structure of ABA and ABC-stacked graphene trilayers. Physical Review B, 2014, 89, .	3.2	26
123	Manipulation and Characterization of Aperiodical Graphene Structures Created in a Two-Dimensional Electron Gas. Physical Review Letters, 2014, 113, 196803.	7.8	36
124	Three-Dimensional Spirals of Atomic Layered MoS₂. Nano Letters, 2014, 14, 6418-6423.	9.1	161
125	First-principles<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>G</mml:mi></mml:mrow></mml:math> of oxygen vacancies in rutile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>TiO</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2014, 89, .	3.2	80
126	Effects of self-consistency and plasmon-pole models on<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:math> for closed-shell molecules. Physical Review B, 2014, 90, .	3.2	24

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127	Probing excitonic dark states in single-layer tungsten disulphide. Nature, 2014, 513, 214-218.	27.8	835
128	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. Nature Materials, 2014, 13, 1091-1095.	27.5	1,470
129	AbÂInitioStudy of Hot Carriers in the First Picosecond after Sunlight Absorption in Silicon. Physical Review Letters, 2014, 112, 257402.	7.8	203
130	Electron Supercollimation in Graphene and Dirac Fermion Materials Using One-Dimensional Disorder Potentials. Physical Review Letters, 2014, 113, 026802.	7.8	24
131	Imaging and Tuning Molecular Levels at the Surface of a Gated Graphene Device. ACS Nano, 2014, 8, 5395-5401.	14.6	39
132	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. Physical Review Letters, 2014, 112, .	7.8	74
133	Band offsets in c-Si/Si-XII heterojunctions. Solid State Communications, 2014, 191, 6-9.	1.9	0
134	Optical Spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>: Many-Body Effects and Diversity of Exciton States. Physical Review Letters, 2013, 111, 216805.	7.8	1,275
135	Photoelectron spin-flipping and texture manipulation in a topological insulator. Nature Physics, 2013, 9, 293-298.	16.7	176
136	Observing Atomic Collapse Resonances in Artificial Nuclei on Graphene. Science, 2013, 340, 734-737.	12.6	223
137	Physical Origin of Satellites in Photoemission of Doped Graphene: AnAb InitioGWPlus Cumulant Study. Physical Review Letters, 2013, 110, 146801.	7.8	97
138	Coulomb-hole summations and energies for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math>calculations with limited number of empty orbitals: A modified static remainder approach. Physical Review B, 2013, 87, .	3.2	149
139	Intermolecular interactions and substrate effects for an adamantane monolayer on a Au(111) surface. Physical Review B, 2013, 88, .	3.2	6
140	Tuning two-dimensional band structure of Cu(111) surface-state electrons that interplay with artificial supramolecular architectures. Physical Review B, 2013, 88, .	3.2	42
141	Resonant Excitation of GrapheneK-Phonon and Intra-Landau-Level Excitons in Magneto-Optical Spectroscopy. Physical Review Letters, 2012, 108, 247401.	7.8	11
142	Phonon-Assisted Optical Absorption in Silicon from First Principles. Physical Review Letters, 2012, 108, 167402.	7.8	143
143	Anomalous insulator-metal transition in boron nitride-graphene hybrid atomic layers. Physical Review B, 2012, 86, .	3.2	42
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