Ãngel Rubio Secades

List of Publications by Year
in descending order

709 papers	55,619 citations	1070 116 h-index	2072 211 g-index
724 all docs	724 docs citations	724 times ranked	38941 citing authors

#	Article	IF	Citations
1	Free electron gas in cavity quantum electrodynamics. Physical Review Research, 2022, 4, .	1.3	33
2	Detecting multiple chiral centers in chiral molecules with high harmonic generation. Optics Express, 2022, 30, 3729.	1.7	16
3	MoirÃ© engineering of spinâ€“orbit coupling in twisted platinum diselenide. Electronic Structure, 2022, 4, 014004.	1.0	8
4	Spin-orbit induced equilibrium spin currents in materials. Physical Review B, 2022, 105, .	1.1	3
5	First-principles modelling for time-resolved ARPES under different pumpâ€“probe conditions. Journal of Electron Spectroscopy and Related Phenomena, 2022, 254, 147152.	0.8	9
6	Excited-state band structure mapping. Physical Review B, 2022, 105, .	1.1	8
7	Nanometer-Scale Lateral pâ€“n Junctions in Graphene/Î±-RuCl₃ Heterostructures. Nano Letters, 2022, 22, 1946-1953.	4.5	25
8	Cavity-Modulated Proton Transfer Reactions. Journal of the American Chemical Society, 2022, 144, 4995-5002.	6.6	32
9	TMDs as a platform for spin liquid physics: A strong coupling study of twisted bilayer WSe2. APL Materials, 2022, 10, .	2.2	19
10	A new Hall for quantum protection. Science, 2022, 375, 976-977.	6.0	4
11	Microscopic theory of light-induced ultrafast skyrmion excitation in transition metal films. Npj Computational Materials, 2022, 8, .	3.5	8
12	Comment on â€œOrigin of symmetry-forbidden high-order harmonic generation in the time-dependent Kohn-Sham formulationâ€• Physical Review A, 2022, 105, .	1.0	1
13	MoirÃ© nematic phase in twisted double bilayer graphene. Nature Physics, 2022, 18, 196-202.	6.5	51
14	Polaritonic Hofstadter butterfly and cavity control of the quantized Hall conductance. Physical Review B, 2022, 105, .	1.1	20
15	A perspective on ab initio modeling of polaritonic chemistry: The role of non-equilibrium effects and quantum collectivity. Journal of Chemical Physics, 2022, 156, .	1.2	39
16	Strongly correlated electronâ€“photon systems. Nature, 2022, 606, 41-48.	13.7	66
17	Few-Femtosecond Dynamics of Free-Free Opacity in Optically Heated Metals. Physical Review X, 2022, 12, .	2.8	6
18	Unconventional excitonic states with phonon sidebands in layered silicon diphosphide. Nature Materials, 2022, 21, 773-778.	13.3	20

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19	Probing phonon dynamics with multidimensional high harmonic carrier-envelope-phase spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
20	Frequency-Dependent Sternheimer Linear-Response Formalism for Strongly Coupled Lightâ€“Matter Systems. Journal of Chemical Theory and Computation, 2022, 18, 4354-4365.	2.3	9
21	Wavefunction embedding for molecular polaritons. Journal of Chemical Physics, 2022, 157, .	1.2	18
22	Effect of spin-orbit coupling on the high harmonics from the topological Dirac semimetal Na3Bi. Npj Computational Materials, 2022, 8, .	3.5	13
23	Engineering quantum materials with chiral optical cavities. Nature Materials, 2021, 20, 438-442.	13.3	120
24	Quantitative sampling of atomic-scale electromagnetic waveforms. Nature Photonics, 2021, 15, 143-147.	15.6	44
25	Toward Confined Carbyne with Tailored Properties. Nano Letters, 2021, 21, 1096-1101.	4.5	27
26	MoirÃ© metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	5.8	60
27	High-order harmonic generation in graphene: Nonlinear coupling of intraband and interband transitions. Physical Review B, 2021, 103, .	1.1	31
28	Vibrational coherent control of localized dâ€“d electronic excitation. Nature Physics, 2021, 17, 368-373.	6.5	10
29	Quantitative Waveform Sampling on Atomic Scales. , 2021, , .		0
30	High Harmonics and Isolated Attosecond Pulses from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Mg</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review Applied, 2021, 15, .	1.5	26
31	Unravelling the intertwined atomic and bulk nature of localised excitons by attosecond spectroscopy. Nature Communications, 2021, 12, 1021.	5.8	32
32	Self-Consistent Potential Correction for Charged Periodic Systems. Physical Review Letters, 2021, 126, 076401.	2.9	44
33	Higher-Order Band Topology in Twisted MoirÃ© Superlattice. Physical Review Letters, 2021, 126, 066401.	2.9	56
34	Hydrated Alkali Atoms on Copper(111): A Density Functional Theory Study. Journal of Physical Chemistry C, 2021, 125, 3868-3879.	1.5	3
35	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	6.5	317
36	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	6.0	58

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37	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	4.7	73
38	Intermolecular interactions in optical cavities: An ab initio QED study. Journal of Chemical Physics, 2021, 154, 094113.	1.2	81
39	Single and double charge transfer in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ne</mml:mi></mml:mrow><mml:mn>10</mml:mn></mml:msup></mml:mrow></mml:math> collision within time-dependent density-functional theory. Physical Review A, 2021, 103, .	2.9	7
40	Simulating Vibronic Spectra without Bornâ€“Oppenheimer Surfaces. Journal of Physical Chemistry Letters, 2021, 12, 3074-3081.	2.1	8
41	Ultrafast dynamical Lifshitz transition. Science Advances, 2021, 7, .	4.7	38
42	Real-time observation of a correlation-driven sub 3â€‰fs charge migration in ionised adenine. Communications Chemistry, 2021, 4, .	2.0	38
43	Identification of the Mott Insulating Charge Density Wave State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi><mml:mtext>â€“</mml:mtext><mml:mi>Ta</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2021, 126, 196406.	2.9	27
44	Nonlinear electric conductivity and THz-induced charge transport in graphene. New Journal of Physics, 2021, 23, 063047.	1.2	5
45	Light-Induced Charge Transfer from Transition-Metal-Doped Aluminum Clusters to Carbon Dioxide. Journal of Physical Chemistry A, 2021, 125, 5878-5885.	1.1	2
46	Phonoritons as Hybridized Exciton-Photon-Phonon Excitations in a Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>h</mml:mi></mml:math> -BN Optical Cavity. Physical Review Letters, 2021, 126, 227401.	2.9	18
47	Direct measurement of key exciton properties: Energy, dynamics, and spatial distribution of the wave function. Natural Sciences, 2021, 1, e10010.	1.0	52
48	Survival of Floquetâ€“Bloch States in the Presence of Scattering. Nano Letters, 2021, 21, 5028-5035.	4.5	41
49	Strong chiral dichroism and enantiopurification in above-threshold ionization with locally chiral light. Physical Review Research, 2021, 3, .	1.3	9
50	The ferroelectric photo ground state of SrTiO ₃ : Cavity materials engineering. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	49
51	Down-conversion processes inab initiononrelativistic quantum electrodynamics. Physical Review Research, 2021, 3, .	1.3	8
52	Out-of-Plane Transport of 1T-TaS₂/Graphene-Based van der Waals Heterostructures. ACS Nano, 2021, 15, 11898-11907.	7.3	20
53	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. Journal of Physics Condensed Matter, 2021, 33, 353001.	0.7	55
54	Coherent coupling between vortex bound states and magnetic impurities in 2D layered superconductors. Nature Communications, 2021, 12, 4668.	5.8	5

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55	Approximations based on density-matrix embedding theory for density-functional theories. Electronic Structure, 2021, 3, 035001.	1.0	1
56	Quantum paraelectric phase of <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></m from first principles. Physical Review B, 2021, 104, .	1.1	22
57	Light-Driven Extremely Nonlinear Bulk Photogalvanic Currents. Physical Review Letters, 2021, 127, 126601.	2.9	25
58	Nematicity Arising from a Chiral Superconducting Ground State in Magic-Angle Twisted Bilayer Graphene under In-Plane Magnetic Fields. Physical Review Letters, 2021, 127, 127001.	2.9	13
59	All-optical generation of antiferromagnetic magnon currents via the magnon circular photogalvanic effect. Physical Review B, 2021, 104, .	1.1	10
60	Engineering Three-Dimensional MoirÃ© Flat Bands. Nano Letters, 2021, 21, 7519-7526.	4.5	10
61	MoirÃ©less correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	59
62	Polaritonic Chemistry: Collective Strong Coupling Implies Strong Local Modification of Chemical Properties. Journal of Physical Chemistry Letters, 2021, 12, 508-516.	2.1	65
63	Realization of nearly dispersionless bands with strong orbital anisotropy from destructive interference in twisted bilayer MoS2. Nature Communications, 2021, 12, 5644.	5.8	57
64	Making ab initio QED functional(s): Nonperturbative and photon-free effective frameworks for strong lightâ€“matter coupling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
65	Conditional Wave Function Theory: A Unified Treatment of Molecular Structure and Nonadiabatic Dynamics. Journal of Chemical Theory and Computation, 2021, , .	2.3	1
66	Common microscopic origin of the phase transitions in Ta2NiS5 and the excitonic insulator candidate Ta2NiSe5. Npj Computational Materials, 2021, 7, .	3.5	19
67	Photoionization and transient Wannier-Stark ladder in silicon: First-principles simulations versus Keldysh theory. Physical Review B, 2021, 104, .	1.1	7
68	Nonadiabatic Electron Dynamics in Tunneling Junctions: Lattice Exchange-Correlation Potential. Journal of Chemical Theory and Computation, 2020, 16, 295-301.	2.3	1
69	Entangled photon assisted multidimensional nonlinear optics of excitonâ€“polaritons. Journal of Applied Physics, 2020, 128, 113102.	1.1	13
70	Role of intraband dynamics in the generation of circularly polarized high harmonics from solids. Physical Review B, 2020, 102, .	1.1	17
71	How Circular Dichroism in Time- and Angle-Resolved Photoemission Can Be Used to Spectroscopically Detect Transient Topological States in Graphene. Physical Review X, 2020, 10, .	2.8	29
72	Parameter-free hybridlike functional based on an extended Hubbard model: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:r Physical Review B, 2020, 102, .	1.1	42

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73	Femtosecond exciton dynamics in WSe2 optical waveguides. Nature Communications, 2020, 11, 3567.	5.8	31
74	Dynamical amplification of electric polarization through nonlinear phononics in 2D SnTe. Npj Computational Materials, 2020, 6, .	3.5	12
75	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	4.5	53
76	Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst. ACS Catalysis, 2020, 10, 13650-13658.	5.5	11
77	Lightâ€“Matter Hybrid-Orbital-Based First-Principles Methods: The Influence of Polariton Statistics. Journal of Chemical Theory and Computation, 2020, 16, 5601-5620.	2.3	19
78	Exact exchange-correlation potential of effectively interacting Kohn-Sham systems. Physical Review A, 2020, 101, .	1.0	1
79	Light-Induced Renormalization of the Dirac Quasiparticles in the Nodal-Line Semimetal ZrSiSe. Physical Review Letters, 2020, 125, 076401.	2.9	26
80	Effect of many modes on self-polarization and photochemical suppression in cavities. Journal of Chemical Physics, 2020, 153, 104103.	1.2	44
81	Direct Measurement of Electron-Phonon Coupling with Time-Resolved ARPES. Physical Review Letters, 2020, 125, 136401.	2.9	27
82	Virial Relations for Electrons Coupled to Quantum Field Modes. Journal of Chemical Theory and Computation, 2020, 16, 6236-6243.	2.3	6
83	Chemistry in Quantum Cavities: Exact Results, the Impact of Thermal Velocities, and Modified Dissociation. Journal of Physical Chemistry Letters, 2020, 11, 7525-7530.	2.1	26
84	Giant Exciton Mott Density in Anatase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review Letters, 2020, 125, 116403.	2.9	8
85	Topological phase transitions induced by disorder in magnetically doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>Bi</m thin films. Physical Review B, 2020, 102, .	1.1	6
86	Coupled Cluster Theory for Molecular Polaritons: Changing Ground and Excited States. Physical Review X, 2020, 10, .	2.8	102
87	Dual boson diagrammatic Monte Carlo approach applied to the extended Hubbard model. Physical Review B, 2020, 102, .	1.1	17
88	Ultrafast transient absorption spectroscopy of the charge-transfer insulator NiO: Beyond the dynamical Franz-Keldysh effect. Physical Review B, 2020, 102, .	1.1	12
89	Nature of Symmetry Breaking at the Excitonic Insulator Transition: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ta</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review Letters, 2020, 124, 197601.	2.9	73
90	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	13.3	544

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91	Room Temperature Terahertz Electroabsorption Modulation by Excitons in Monolayer Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 5214-5220.	4.5	14
92	Polycyclic aromatic chains on metals and insulating layers by repetitive [3+2]Âcycloadditions. Nature Communications, 2020, 11, 1490.	5.8	23
93	Electronâ€“phonon-driven three-dimensional metallicity in an insulating cuprate. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6409-6416.	3.3	18
94	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. Journal of Chemical Physics, 2020, 152, 124119.	1.2	210
95	Local Berry curvature signatures in dichroic angle-resolved photoelectron spectroscopy from two-dimensional materials. Science Advances, 2020, 6, eaay2730.	4.7	57
96	Setting the photoelectron clock through molecular alignment. Nature Communications, 2020, 11, 2546.	5.8	26
97	Attosecond timing of the dynamical Franzâ€“Keldysh effect. JPhys Photonics, 2020, 2, 025001.	2.2	13
98	Universal slow plasmons and giant field enhancement in atomically thin quasi-two-dimensional metals. Nature Communications, 2020, 11, 1013.	5.8	53
99	One-dimensional flat bands in twisted bilayer germanium selenide. Nature Communications, 2020, 11, 1124.	5.8	80
100	Relevance of the Quadratic Diamagnetic and Self-Polarization Terms in Cavity Quantum Electrodynamics. ACS Photonics, 2020, 7, 975-990.	3.2	105
101	Covalent Câ€“N Bond Formation through a Surface Catalyzed Thermal Cyclodehydrogenation. Journal of the American Chemical Society, 2020, 142, 3696-3700.	6.6	27
102	Time-Dependent Magnons from First Principles. Journal of Chemical Theory and Computation, 2020, 16, 1007-1017.	2.3	21
103	High-harmonic generation from spin-polarised defects in solids. Npj Computational Materials, 2020, 6, .	3.5	48
104	Contrasting Efficiency of Electron-Induced Reaction at Cu(110) in Aliphatic and Aromatic Bromides. Journal of the American Chemical Society, 2020, 142, 9453-9459.	6.6	4
105	Floquet states in dissipative open quantum systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 225601.	0.6	21
106	Berry curvature engineering by gating two-dimensional antiferromagnets. Physical Review Research, 2020, 2, .	1.3	22
107	Polaritonic coupled-cluster theory. Physical Review Research, 2020, 2, .	1.3	57
108	Floquet dynamics in light-driven solids. Physical Review Research, 2020, 2, .	1.3	33

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109	Polariton panorama. Nanophotonics, 2020, 10, 549-577.	2.9	155
110	Light-induced topological magnons in two-dimensional van der Waals magnets. SciPost Physics, 2020, 9, .	1.5	18
111	Role of electron scattering on the high-order harmonic generation from solids. Physical Review Research, 2020, 2, .	1.3	3
112	Role of intraband dynamics on circularly polarized high-harmonic generation from solids. , 2020, , .		0
113	Electronic Structure of Materials by Ab Initio Methods: Overview. , 2020, , 207-212.		0
114	Attosecond screening dynamics mediated by electron localization in transition metals. Nature Physics, 2019, 15, 1145-1149.	6.5	59
115	Quantum Electrodynamical Bloch Theory with Homogeneous Magnetic Fields. Physical Review Letters, 2019, 123, 047202.	2.9	30
116	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	13.7	644
117	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. Nano Letters, 2019, 19, 4934-4940.	4.5	123
118	Force balance approach for advanced approximations in density functional theories. Journal of Chemical Physics, 2019, 151, 154107.	1.2	17
119	Light-induced anomalous Hall effect in massless Dirac fermion systems and topological insulators with dissipation. New Journal of Physics, 2019, 21, 093005.	1.2	34
120	Self-Consistent Density-Functional Embedding: A Novel Approach for Density-Functional Approximations. Journal of Chemical Theory and Computation, 2019, 15, 5209-5220.	2.3	14
121	Reduced Density-Matrix Approach to Strong Matter-Photon Interaction. ACS Photonics, 2019, 6, 2694-2711.	3.2	31
122	Strong-field physics in the molecular frame. EPJ Web of Conferences, 2019, 205, 07002.	0.1	0
123	Lightâ€“Matter Response in Nonrelativistic Quantum Electrodynamics. ACS Photonics, 2019, 6, 2757-2778.	3.2	79
124	Universal optical control of chiral superconductors and Majorana modes. Nature Physics, 2019, 15, 766-770.	6.5	48
125	Capturing vacuum fluctuations and photon correlations in cavity quantum electrodynamics with multitrajectory Ehrenfest dynamics. Physical Review A, 2019, 99, .	1.0	33
126	Polarization states of high-harmonics generated in silicon from elliptical drivers. EPJ Web of Conferences, 2019, 205, 02022.	0.1	0

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127	Microscopic theory for the light-induced anomalous Hall effect in graphene. Physical Review B, 2019, 99, .	1.1	117
128	Ab initio simulation of laser-induced water decomposition close to carbon nanotubes. Physical Review B, 2019, 99, .	1.1	10
129	Cavity Control of Excitons in Two-Dimensional Materials. Nano Letters, 2019, 19, 3473-3479.	4.5	65
130	Polarization-state-resolved high-harmonic spectroscopy of solids. Nature Communications, 2019, 10, 1319.	5.8	60
131	Local adsorption structure and bonding of porphine on Cu(111) before and after self-metalation. Journal of Chemical Physics, 2019, 150, 094702.	1.2	11
132	Density-Matrix Embedding Theory Study of the One-Dimensional Hubbardâ€“Holstein Model. Journal of Chemical Theory and Computation, 2019, 15, 2221-2232.	2.3	22
133	Orbital magneto-optical response of periodic insulators from first principles. Npj Computational Materials, 2019, 5, .	3.5	5
134	Modification of excitation and charge transfer in cavity quantum-electrodynamical chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4883-4892.	3.3	138
135	Unraveling materials Berry curvature and Chern numbers from real-time evolution of Bloch states. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4135-4140.	3.3	20
136	Light-matter interactions within the Ehrenfestâ€“Maxwellâ€“Pauliâ€“Kohnâ€“Sham framework: fundamentals, implementation, and nano-optical applications. Advances in Physics, 2019, 68, 225-333.	35.9	54
137	Attosecond Electron Localization and Screening Dynamics in Metals. , 2019, , .		0
138	Optically Driven Attosecond Electron Dynamics in III-V Semiconductors. , 2019, , .		0
139	Exciton control in a room temperature bulk semiconductor with coherent strain pulses. Science Advances, 2019, 5, eaax2937.	4.7	28
140	Benchmarking semiclassical and perturbative methods for real-time simulations of cavity-bound emission and interference. Journal of Chemical Physics, 2019, 151, 244113.	1.2	37
141	Optimal control theory for quantum electrodynamics: an initial state problem. European Physical Journal B, 2019, 92, 1.	0.6	6
142	Nonadiabatic quantum dynamics without potential energy surfaces. Physical Review Materials, 2019, 3, .	0.9	12
143	Topological Floquet engineering of twisted bilayer graphene. Physical Review Research, 2019, 1, .	1.3	56
144	Electronic Structure of Materials by Ab Initio Methods: Overview. , 2019, , 1-6.		0

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145	From a quantum-electrodynamical lightâ€“matter description to novel spectroscopies. Nature Reviews Chemistry, 2018, 2, .	13.8	182
146	Ab Initio Optimized Effective Potentials for Real Molecules in Optical Cavities: Photon Contributions to the Molecular Ground State. ACS Photonics, 2018, 5, 992-1005.	3.2	96
147	Ultrasensitive H2S gas sensors based on p-type WS2 hybrid materials. Nano Research, 2018, 11, 4215-4224.	5.8	76
148	Layered Insulator/Molecule/Metal Heterostructures with Molecular Functionality through Porphyrin Intercalation. ACS Nano, 2018, 12, 2677-2684.	7.3	14
149	Transient Charge and Energy Flow in the Wide-Band Limit. Journal of Chemical Theory and Computation, 2018, 14, 2495-2504.	2.3	34
150	Propagators for the Time-Dependent Kohnâ€“Sham Equations: Multistep, Rungeâ€“Kutta, Exponential Rungeâ€“Kutta, and Commutator Free Magnus Methods. Journal of Chemical Theory and Computation, 2018, 14, 3040-3052.	2.3	69
151	Atomic-like high-harmonic generation from two-dimensional materials. Science Advances, 2018, 4, eaao5207.	4.7	98
152	Phonon-driven spin-Floquet magneto-valleytronics in MoS2. Nature Communications, 2018, 9, 638.	5.8	86
153	Application of the Real-Time Time-Dependent Density Functional Theory to Excited-State Dynamics of Molecules and 2D Materials. Journal of the Physical Society of Japan, 2018, 87, 041016.	0.7	10
154	Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). Journal of Physical Chemistry C, 2018, 122, 5452-5461.	1.5	14
155	Phonon Driven Floquet Matter. Nano Letters, 2018, 18, 1535-1542.	4.5	63
156	Attosecond optical-field-enhanced carrier injection into the GaAs conduction band. Nature Physics, 2018, 14, 560-564.	6.5	123
157	Lightâ€“matter interaction in the long-wavelength limit: no ground-state without dipole self-energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 034005.	0.6	132
158	Large area planar stanene epitaxially grown on Ag(1â€‰1â€‰1). 2D Materials, 2018, 5, 025002.	2.0	164
159	Ab Initio Simulation of Attosecond Transient Absorption Spectroscopy in Two-Dimensional Materials. Applied Sciences (Switzerland), 2018, 8, 1777.	1.3	19
160	All-optical nonequilibrium pathway to stabilising magnetic Weyl semimetals in pyrochlore iridates. Nature Communications, 2018, 9, 4452.	5.8	38
161	Electronic Structure of Materials by Ab Initio Methods: Overview. , 2018, , 1-6.		1
162	Atomic and Electronic Structure of Silicene on Ag: A Theoretical Perspective. Nanoscience and Technology, 2018, , 159-178.	1.5	1

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163	Visualizing topological edge states of single and double bilayer Bi supported on multibilayer Bi(111) films. Physical Review B, 2018, 98, .	1.1	40
164	Special issue in honor of Eberhard K.U. Gross for his 65th birthday. European Physical Journal B, 2018, 91, 1.	0.6	0
165	Cavity quantum-electrodynamical polaritonically enhanced electron-phonon coupling and its influence on superconductivity. Science Advances, 2018, 4, eaau6969.	4.7	140
166	Benchmarking nonequilibrium Greenâ€™s functions against configuration interaction for time-dependent Auger decay processes. European Physical Journal B, 2018, 91, 1.	0.6	7
167	Ab initiononrelativistic quantum electrodynamics: Bridging quantum chemistry and quantum optics from weak to strong coupling. Physical Review A, 2018, 98, .	1.0	126
168	Multiple-orbital effects in laser-induced electron diffraction of aligned molecules. Physical Review A, 2018, 98, .	1.0	14
169	High-harmonic generation from few-layer hexagonal boron nitride: Evolution from monolayer to bulk response. Physical Review B, 2018, 98, .	1.1	54
170	Ultrafast Modification of Hubbard<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>U</mml:mi></mml:mrow></mml:math>in a Strongly Correlated Material:AbÂinitioHigh-Harmonic Generation in NiO. Physical Review Letters, 2018, 121, 097402.	2.9	118
171	Coupled forward-backward trajectory approach for nonequilibrium electron-ion dynamics. Physical Review B, 2018, 97, .	1.1	12
172	Role of intraband transitions in photocarrier generation. Physical Review B, 2018, 98, .	1.1	26
173	Phonon-Driven Selective Modulation of Exciton Oscillator Strengths in Anatase TiO₂ Nanoparticles. Nano Letters, 2018, 18, 5007-5014.	4.5	29
174	Kinetic-Energy Density-Functional Theory on a Lattice. Journal of Chemical Theory and Computation, 2018, 14, 4072-4087.	2.3	7
175	First-principles simulations for attosecond photoelectron spectroscopy based on time-dependent density functional theory. European Physical Journal B, 2018, 91, 1.	0.6	15
176	Electronic Structure of Materials by Ab Initio Methods: Overview. , 2018, , 1-6.		0
177	Light-matter interactions via the exact factorization approach. European Physical Journal B, 2018, 91, 1.	0.6	44
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