

# Sheng Meng

## 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.

284  
papers

11,919  
citations

56  
h-index

101  
g-index

302  
ext. papers

13,691  
ext. citations

7  
avg, IF

6.58  
L-index

#	Paper	IF	Citations
284	Optical Control of Multistage Phase Transition via Phonon Coupling in MoTe <sub>2</sub> .. <i>Physical Review Letters</i> , <b>2022</b> , 128, 015702	7.4	2
283	Creation of a novel inverted charge density wave state.. <i>Structural Dynamics</i> , <b>2022</b> , 9, 014501	3.2	0
282	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. <i>Nano Letters</i> , <b>2022</b> , 22, 695-701	11.5	3
281	Tracking photocarrier-enhanced electron-phonon coupling in nonequilibrium. <i>Npj Quantum Materials</i> , <b>2022</b> , 7,	5	1
280	Calibrating the unphysical divergence in TDDFT+U simulations of a correlated oxide. <i>Computational Materials Science</i> , <b>2022</b> , 203, 111167	3.2	
279	Dual-gated single-molecule field-effect transistors beyond Moore's law.. <i>Nature Communications</i> , <b>2022</b> , 13, 1410	17.4	5
278	Theoretical Insights into Ultrafast Dynamics in Quantum Materials. <i>Ultrafast Science</i> , <b>2022</b> , 2022, 1-16		3
277	Indirect to Direct Charge Transfer Transition in Plasmon-Enabled CO Photoreduction. <i>Advanced Science</i> , <b>2021</b> , 9, e2102978	13.6	7
276	Plasmon-Induced Water Splitting on Ag-Alloyed Pt Single-Atom Catalysts. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 742794	5	1
275	Viable substrates for the honeycomb-borophene growth. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	2
274	Unravelling a Zigzag Pathway for Hot Carrier Collection with Graphene Electrode. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2886-2891	6.4	0
273	Manipulating Weyl quasiparticles by orbital-selective photoexcitation in WTe. <i>Nature Communications</i> , <b>2021</b> , 12, 1885	17.4	8
272	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12382-12386	3.6	
271	Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. <i>Nano Letters</i> , <b>2021</b> , 21, 3566-3572	11.5	3
270	Atomically Precise Engineering of Single-Molecule Stereoelectronic Effect. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12274-12278	16.4	6
269	Thermally induced band hybridization in bilayer-bilayer MoS <sub>2</sub> /WS <sub>2</sub> heterostructure*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 057801	1.2	2
268	Electric Field Tunable Ultrafast Interlayer Charge Transfer in Graphene/WS Heterostructure. <i>Nano Letters</i> , <b>2021</b> , 21, 4403-4409	11.5	4

267	Nonadiabatic Dynamics of Photocatalytic Water Splitting on A Polymeric Semiconductor. <i>Nano Letters</i> , <b>2021</b> , 21, 6449-6455	11.5	8
266	First-principles dynamics of photoexcited molecules and materials towards a quantum description. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2021</b> , 11, e1492	7.9	9
265	Low thermal conductivity and good thermoelectric performance in mercury chalcogenides. <i>Computational Materials Science</i> , <b>2021</b> , 188, 110192	3.2	
264	Quartic anharmonicity and ultra-low lattice thermal conductivity of alkali antimonide compounds M3Sb (M = K, Rb and Cs). <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 6958-6965	4.5	2
263	Local Kondo scattering in 4d-electron RuO nanoclusters on atomically-resolved ultrathin SrRuO films. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22526-22531	3.6	
262	Tuning of the oxygen vacancies in LaCoO3 films at the atomic scale. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 081602	3.4	2
261	Direct observation of atomic-level fractal structure in a metallic glass membrane. <i>Science Bulletin</i> , <b>2021</b> ,	10.6	2
260	Ultra-low lattice thermal conductivity and high thermoelectric efficiency of K3AuO. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 045101	2.5	1
259	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	8
258	Probing Laser-Induced Plasma Generation in Liquid Water. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10382-10388	16.4	2
257	High-Throughput Screening of Element-Doped Carbon Nanotubes Toward an Optimal One-Dimensional Superconductor. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 6667-6675	6.4	0
256	Inspecting the nonbonding and antibonding orbitals in a surface-supported metal-organic framework. <i>Chemical Communications</i> , <b>2021</b> , 57, 4580-4583	5.8	2
255	Non-Hermitian topological states in 2D line-graph lattices: evolving triple exceptional points on reciprocal line graphs. <i>New Journal of Physics</i> , <b>2021</b> , 23, 123038	2.9	
254	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. <i>Physical Review Letters</i> , <b>2020</b> , 124, 206801	7.4	16
253	Quartic anharmonicity and anomalous thermal conductivity in cubic antiperovskites A3BO (A=K, Rb; B=Br, Au). <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
252	The effect of moiré superstructures on topological edge states in twisted bismuthene homojunctions. <i>Science Advances</i> , <b>2020</b> , 6, eaba2773	14.3	21
251	MgB4 trilayer film: A four-gap superconductor. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
250	Laser picoscopy of valence electrons in solids. <i>Nature</i> , <b>2020</b> , 583, 55-59	50.4	30

249	Distribution and concentration of surface oxygen vacancy of TiO <sub>2</sub> and its photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 424001	3	3
248	Water on surfaces from first-principles molecular dynamics. <i>Chinese Physics B</i> , <b>2020</b> , 29, 116804	1.2	0
247	Reducing Anomalous Hysteresis in Perovskite Solar Cells by Suppressing the Interfacial Ferroelectric Order. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12275-12284	9.5	8
246	Visualizing molecular orientational ordering and electronic structure in C <sub>60</sub> fulleride films. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
245	Rotational and Vibrational Excitations of a Single Water Molecule by Inelastic Electron Tunneling Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1650-1655	6.4	2
244	Toward attosecond control of electron dynamics in two-dimensional materials. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 043101	3.4	10
243	Emergence of d-orbital magnetic Dirac fermions in a MoS <sub>2</sub> monolayer with squared pentagon structure. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	3
242	Epitaxial growth and band structure of antiferromagnetic Mott insulator CeO <sub>1</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	1
241	Molecular transport across a two-dimensional nanomesh membrane-graphdiyne. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 493003	3	1
240	Electronic Structures and Catalytic Activities of Niobium Oxides as Electrocatalysts in Liquid-Junction Photovoltaic Devices. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900430	7.1	17
239	Ultrafast charge ordering by self-amplified exciton-phonon dynamics in TiSe. <i>Nature Communications</i> , <b>2020</b> , 11, 43	17.4	26
238	Anomalous electronic and thermoelectric transport properties in cubic Rb <sub>3</sub> AuO antiperovskite. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
237	First-principles study of phonon thermal transport in III-V group graphenelike materials. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 062202	2.9	1
236	The structural, electronic and optic properties in a series of M <sub>2</sub> XY (M = Ga, In; X, Y = S, Se, Te) Janus monolayer materials based on GW and the Bethe-Salpeter equation. <i>European Physical Journal B</i> , <b>2020</b> , 93, 1	1.2	3
235	A comprehensive phonon thermal transport study of 2D hexagonal MX <sub>2</sub> and orthorhombic M <sub>2</sub> X <sub>3</sub> (M = Ni, Pd; X = S, Se and Te). <i>Materials Today Communications</i> , <b>2020</b> , 25, 101441	2.5	2
234	Single-water-dipole-layer-driven Reversible Charge Order Transition in 1-TaS. <i>Nano Letters</i> , <b>2020</b> , 20, 8854-8860	11.5	4
233	Phase Transition Photodetection in Charge Density Wave Tantalum Disulfide. <i>Nano Letters</i> , <b>2020</b> , 20, 6725-6731	11.5	5
232	Low thermal conductivity and good thermoelectric performance in mercury chalcogenides. <i>Computational Materials Science</i> , <b>2020</b> , 185, 109960	3.2	5

231	Fermionic Analogue of High Temperature Hawking Radiation in Black Phosphorus. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 067101	1.8	8
230	Ultrafast Optical Modulation of Harmonic Generation in Two-Dimensional Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 8053-8058	11.5	14
229	Role of Explicitly Included Solvents on Ultrafast Electron Injection and Recombination Dynamics at TiO <sub>2</sub> /Dye Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 49174-49181	9.5	2
228	Integrated Plasmonics: Broadband Dirac Plasmons in Borophene. <i>Physical Review Letters</i> , <b>2020</b> , 125, 116802	9.4	23
227	Water nanostructure formation on oxide probed in situ by optical resonances. <i>Science Advances</i> , <b>2019</b> , 5, eaax6973	14.3	11
226	Ideal type-II Weyl phonons in wurtzite CuI. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	22
225	Transparent proton transport through a two-dimensional nanomesh material. <i>Nature Communications</i> , <b>2019</b> , 10, 3971	17.4	32
224	Two-gap and three-gap superconductivity in AlB <sub>2</sub> -based films. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
223	Real-Space Imaging of Orbital Selectivity on SrTiO <sub>3</sub> (001) Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37279-37284	9.5	3
222	Pressure induced excellent thermoelectric behavior in skutterudites CoSb and IrSb. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 851-858	3.6	8
221	Comprehensive calculations and prominent thermoelectric properties of Li <sub>3</sub> P and Li <sub>3</sub> As. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 2802-2808	2.3	3
220	Cooperative evolution of intraband and interband excitations for high-harmonic generation in strained MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	17
219	Superstructure-Induced Splitting of Dirac Cones in Silicene. <i>Physical Review Letters</i> , <b>2019</b> , 122, 196801	7.4	14
218	Coexistence of Different Charge-Transfer Mechanisms in the Hot-Carrier Dynamics of Hybrid Plasmonic Nanomaterials. <i>Nano Letters</i> , <b>2019</b> , 19, 3187-3193	11.5	23
217	Hard BN Clathrate Superconductors. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2554-2560	6.4	9
216	Spin-Orientation-Dependent Topological States in Two-Dimensional Antiferromagnetic NiTiS Monolayers. <i>Nano Letters</i> , <b>2019</b> , 19, 3321-3326	11.5	18
215	Effect of single point defect on local properties in BiFeO <sub>3</sub> thin film. <i>Acta Materialia</i> , <b>2019</b> , 170, 132-137	8.4	2
214	Flat AgTe Honeycomb Monolayer on Ag(111). <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1866-1871	6.4	17

213	Ab initio study on anisotropic thermoelectric transport in ternary pnictide KZnP. <i>JPhys Materials</i> , <b>2019</b> , 2, 024001	4.2	1
212	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. <i>Nature Communications</i> , <b>2019</b> , 10, 1450	17.4	53
211	Engineering Dirac states in graphene: Coexisting type-I and type-II Floquet-Dirac fermions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	6
210	Reply to Comment on Ab initio evidence for nonthermal characteristics in ultrafast laser melting. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
209	Ice II-like Monolayer Ice Grown on Graphite Surface. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20297-20303	3.8	8
208	Photoexcitation Induced Quantum Dynamics of Charge Density Wave and Emergence of a Collective Mode in 1-TaS. <i>Nano Letters</i> , <b>2019</b> , 19, 6027-6034	11.5	16
207	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 083104	3.4	4
206	The excellent TE performance of photoelectric material CdSe along with a study of Zn(Cd)Se and Zn(Cd)Te based on first-principles.. <i>RSC Advances</i> , <b>2019</b> , 9, 25471-25479	3.7	6
205	Extreme nonlinear strong-field photoemission from carbon nanotubes. <i>Nature Communications</i> , <b>2019</b> , 10, 4891	17.4	8
204	Giant photoinduced lattice distortion in oxygen vacancy ordered SrCoO <sub>2.5</sub> thin films. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
203	Nucleation and dissociation of methane clathrate embryo at the gas-water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 23410-23415	11.5	10
202	Quantum dynamics simulations: combining path integral nuclear dynamics and real-time TDDFT. <i>Electronic Structure</i> , <b>2019</b> , 1, 044005	2.6	4
201	Dynamic defect as nonradiative recombination center in semiconductors. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
200	Improving Photovoltaic Stability and Performance of Perovskite Solar Cells by Molecular Interface Engineering. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1219-1225	3.8	12
199	Water transport through subnanopores in the ultimate size limit: Mechanism from molecular dynamics. <i>Nano Research</i> , <b>2019</b> , 12, 587-592	10	15
198	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4585-4589	16.4	18
197	A combined experimental and theoretical investigation of donor and acceptor interface in efficient aqueous-processed polymer/nanocrystal hybrid solar cells. <i>Science China Chemistry</i> , <b>2018</b> , 61, 437-443	7.9	6
196	Optical Properties of Single- and Double-Functionalized Small Diamondoids. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 3583-3593	2.8	8

195	Intrinsic electronic transport and thermoelectric power factor in n-type doped monolayer MoS <sub>2</sub> . <i>New Journal of Physics</i> , <b>2018</b> , 20, 043009	2.9	17
194	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4675-4679	3.6	4
193	Plasmon-induced nonlinear response of silver atomic chains. <i>Nanoscale</i> , <b>2018</b> , 10, 8600-8605	7.7	10
192	Phonon thermal transport in monolayer FeB <sub>2</sub> from first principles. <i>Computational Materials Science</i> , <b>2018</b> , 147, 132-136	3.2	7
191	Hidden spin polarization in the 1 T -phase layered transition-metal dichalcogenides MX <sub>2</sub> ( M = Zr, Hf; X = S, Se, Te). <i>Science Bulletin</i> , <b>2018</b> , 63, 85-91	10.6	16
190	Photoexcitation in Solids: First-Principles Quantum Simulations by Real-Time TDDFT. <i>Advanced Theory and Simulations</i> , <b>2018</b> , 1, 1800055	3.5	34
189	Scanning tunneling microscopy investigations of unoccupied surface states in two-dimensional semiconducting Bi <sub>2</sub> Te <sub>3</sub> /Bi/Si(111) surface. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20188-20193	3.6	5
188	Robust quantum spin Hall state and quantum anomalous Hall state in graphenelike BC <sub>3</sub> with adatoms. <i>New Journal of Physics</i> , <b>2018</b> , 20, 073047	2.9	1
187	Macroscopic superhydrophobicity achieved by atomic decoration with silicones. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 014706	3.9	1
186	Direct imaging of surface states hidden in the third layer of Si (111)-7 × 7 surface by pz-wave tip. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 031604	3.4	5
185	Transparency in graphene mediated evaporation. <i>2D Materials</i> , <b>2018</b> , 5, 041001	5.9	8
184	Vibrational relaxation dynamics of the nitrogen-vacancy center in diamond. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
183	New Pathway for Hot Electron Relaxation in Two-Dimensional Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 6057-6063	11.5	37
182	Photoinduced Nonequilibrium Topological States in Strained Black Phosphorus. <i>Physical Review Letters</i> , <b>2018</b> , 120, 237403	7.4	45
181	Discovery of 2D Anisotropic Dirac Cones. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704025	24	62
180	Plasmon-Induced Ultrafast Hydrogen Production in Liquid Water. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 63-69	6.4	23
179	Screening Magnetic Two-Dimensional Atomic Crystals with Nontrivial Electronic Topology. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6709-6715	6.4	35
178	Hexagonal Monolayer Ice without Shared Edges. <i>Physical Review Letters</i> , <b>2018</b> , 121, 256001	7.4	12

177	Multigap anisotropic superconductivity in borophenes. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	17
176	Momentum-resolved TDDFT algorithm in atomic basis for real time tracking of electronic excitation. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 154104	3.9	13
175	Ultrafast Broadband Charge Collection from Clean Graphene/CHNHPbI Interface. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14952-14957	16.4	21
174	Water printing of ferroelectric polarization. <i>Nature Communications</i> , <b>2018</b> , 9, 3809	17.4	44
173	Low lattice thermal conductivity and excellent thermoelectric behavior in LiSb and LiBi. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 425401	1.8	11
172	Identifying Few-Molecule Water Clusters with High Precision on Au(111) Surface. <i>ACS Nano</i> , <b>2018</b> , 12, 6452-6457	16.7	15
171	Phonon thermal transport in a class of graphene allotropes from first principles. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 15980-15985	3.6	16
170	Fe on Sb(111): Potential Two-Dimensional Ferromagnetic Superstructures. <i>ACS Nano</i> , <b>2017</b> , 11, 2143-2148	16.7	4
169	Metastable phases of 2D boron sheets on Ag(1 1 1). <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 095002	16.7	57
168	Suppressed superconductivity in substrate-supported $\sqrt{2}$ borophene by tensile strain and electron doping. <i>2D Materials</i> , <b>2017</b> , 4, 025032	5.9	63
167	Free-Standing Single-Molecule Thick Crystals Consisting of Linear Long-Chain Polymers. <i>Nano Letters</i> , <b>2017</b> , 17, 1655-1659	11.5	7
166	Benign Interfacial Iodine Vacancies in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5905-5913	3.8	30
165	High thermopower and potential thermoelectric properties of crystalline LiH and NaH. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	15
164	A modified Wenzel model for water wetting on van der Waals layered materials with topographic surfaces. <i>Nanoscale</i> , <b>2017</b> , 9, 3843-3849	7.7	7
163	Dirac Fermions in Borophene. <i>Physical Review Letters</i> , <b>2017</b> , 118, 096401	7.4	256
162	Infrared spectroscopic study on lattice dynamics in CaFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	3
161	Interlayer-State-Coupling Dependent Ultrafast Charge Transfer in MoS/WS Bilayers. <i>Advanced Science</i> , <b>2017</b> , 4, 1700086	13.6	61
160	Self-assembly of glycine on Cu(001): the effect of temperature and polarity. <i>RSC Advances</i> , <b>2017</b> , 7, 41163-41173	12.3	3



159	All-Silicon Switchable Magnetoelectric Effect through Interlayer Exchange Coupling. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1916-1920	3.2	1
158	Intrinsic valley polarization of magnetic VSe monolayers. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 255501	1.8	37
157	Exotic thermoelectric behavior in nitrogenated holey graphene. <i>RSC Advances</i> , <b>2017</b> , 7, 25803-25810	3.7	19
156	An Iron-Porphyrin Complex with Large Easy-Axis Magnetic Anisotropy on Metal Substrate. <i>ACS Nano</i> , <b>2017</b> , 11, 11402-11408	16.7	15
155	Controlling states of water droplets on nanostructured surfaces by design. <i>Nanoscale</i> , <b>2017</b> , 9, 18240-18245	7.45	30
154	Effects of line defects on the electronic and optical properties of strain-engineered WO <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11694-11699	7.1	16
153	High-Efficiency Photovoltaic Conversion at Selective Electron Tunneling Heterointerfaces. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700211	6.4	5
152	Flexible strain sensors with high performance based on metallic glass thin film. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 121906	3.4	50
151	Plasmon-driven sub-picosecond breathing of metal nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 12391-12397	7.7	20
150	Monitoring Local Strain Vector in Atomic-Layered MoSe by Second-Harmonic Generation. <i>Nano Letters</i> , <b>2017</b> , 17, 7539-7543	11.5	80
149	Robust Stacking-Independent Ultrafast Charge Transfer in MoS/WS Bilayers. <i>ACS Nano</i> , <b>2017</b> , 11, 12020-12026	10.26	89
148	Superconducting transition of FeSe/SrTiO <sub>3</sub> induced by adsorption of semiconducting organic molecules. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
147	Prediction of two-dimensional electron gas mediated magnetoelectric coupling at ferroelectric PbTiO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	16
146	Dirac cone pairs in silicene induced by interface Si-Ag hybridization: A first-principles effective band study. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	16
145	Screening single-atom catalysts for methane activation: Al <sub>2</sub> O <sub>3</sub> (0001)-supported Ni. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	3
144	Controlling catalytic activity of gold cluster on MgO thin film for water splitting. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	7
143	Low lattice thermal conductivity and good thermoelectric performance of cinnabar. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	10
142	Tunable electron-phonon coupling superconductivity in platinum diselenide. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	13

141	Recent progresses in real-time local-basis implementation of time dependent density functional theory for electron-nucleus dynamics. <i>Computational Materials Science</i> , <b>2016</b> , 112, 478-486	3.2	16
140	Nonlinear Rashba spin splitting in transition metal dichalcogenide monolayers. <i>Nanoscale</i> , <b>2016</b> , 8, 17854-17860	4.1	1
139	Spin-polarized valley Hall effect in ultrathin silicon nanomembrane via interlayer antiferromagnetic coupling. <i>2D Materials</i> , <b>2016</b> , 3, 035026	5.9	7
138	Wetting behavior of water on silicon carbide polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 28033-28039	3.6	18
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