

Xiaoyang Zhu

List of Publications by Year in descending order

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201
papers

24,320
citations

9428

76
h-index

8212

153
g-index

209
all docs

209
docs citations

209
times ranked

26745
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible strain-induced magnetic phase transition in a van der Waals magnet. Nature Nanotechnology, 2022, 17, 256-261.	15.6	93
2	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
3	In-Plane Anisotropy in Biaxial ReS ₂ Crystals Probed by Nano-Optical Imaging of Waveguide Modes. ACS Photonics, 2022, 9, 443-451.	3.2	12
4	Bright and Dark Exciton Coherent Coupling and Hybridization Enabled by External Magnetic Fields. Nano Letters, 2022, 22, 1680-1687.	4.5	3
5	Near-field nanoscopy of excitons and ultrafast interlayer dynamics in van der Waals crystals. , 2022, , .		0
6	Hyperspectral microscopy of two-dimensional semiconductors. Optical Materials: X, 2022, 14, 100145.	0.3	5
7	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe ₂ . ACS Nano, 2022, 16, 140-147.	7.3	19
8	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. Nature Materials, 2022, 21, 754-760.	13.3	60
9	Direct View of Phonon Dynamics in Atomically Thin MoS ₂ . Nano Letters, 2022, 22, 4718-4724.	4.5	19
10	Disentangling Many-Body Effects in the Coherent Optical Response of 2D Semiconductors. Nano Letters, 2022, 22, 5322-5329.	4.5	18
11	Spin Waves and Magnetic Exchange Hamiltonian in CrSBr. Advanced Science, 2022, 9, .	5.6	20
12	Solvated Electrons in Solids—Ferroelectric Large Polarons in Lead Halide Perovskites. Journal of the American Chemical Society, 2021, 143, 5-16.	6.6	44
13	Optical parametric amplification by monolayer transition metal dichalcogenides. Nature Photonics, 2021, 15, 6-10.	15.6	74
14	2D materials. Journal of Chemical Physics, 2021, 154, 040401.	1.2	1
15	Ultrafast evolution of the complex dielectric function of monolayer WS ₂ after photoexcitation. Physical Chemistry Chemical Physics, 2021, 23, 22640-22646.	1.3	8
16	Decoding ultrafast polarization responses in lead halide perovskites by the two-dimensional optical Kerr effect. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
17	Deep moiré potentials in twisted transition metal dichalcogenide bilayers. Nature Physics, 2021, 17, 720-725.	6.5	124
18	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	6.0	58

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19	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe_2 Heterobilayers. <i>Physical Review Letters</i> , 2021, 126, 106804.	2.9	49
20	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. <i>Science Advances</i> , 2021, 7, .	4.7	73
21	The ultrafast Kerr effect in anisotropic and dispersive media. <i>Journal of Chemical Physics</i> , 2021, 154, 094202.	1.2	11
22	Magnetic Order and Symmetry in the 2D Semiconductor CrSBr. <i>Nano Letters</i> , 2021, 21, 3511-3517.	4.5	141
23	Superatomic solid solutions. <i>Nature Chemistry</i> , 2021, 13, 607-613.	6.6	15
24	Dissecting Interlayer Hole and Electron Transfer in Transition Metal Dichalcogenide Heterostructures via Two-Dimensional Electronic Spectroscopy. <i>Nano Letters</i> , 2021, 21, 4738-4743.	4.5	29
25	Optical Anisotropy and Phase Transitions in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5016-5022.	2.1	17
26	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. <i>Nature Materials</i> , 2021, 20, 1657-1662.	13.3	94
27	2D Optical- and THz-Kerr Effect in Lead Halide Perovskites. , 2021, , .		0
28	High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. <i>Nature Electronics</i> , 2021, 4, 731-739.	13.1	41
29	Ultrafast Ferroelectric Ordering on the Surface of a Topological Semimetal MoTe_2 . <i>Nano Letters</i> , 2021, 21, 9903-9908.	4.5	4
30	Stereochemical expression of ns ² electron pairs in metal halide perovskites. <i>Nature Reviews Chemistry</i> , 2021, 5, 838-852.	13.8	53
31	Spin-orbit-coupled exciton-polariton condensates in lead halide perovskites. <i>Science Advances</i> , 2021, 7, eabj7667.	4.7	30
32	2020 JCP Emerging Investigator Special Collection. <i>Journal of Chemical Physics</i> , 2021, 155, 230401.	1.2	1
33	Continuous Wave Sum Frequency Generation and Imaging of Monolayer and Heterobilayer Two-Dimensional Semiconductors. <i>ACS Nano</i> , 2020, 14, 708-714.	7.3	41
34	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. <i>Nature Materials</i> , 2020, 19, 1068-1073.	13.3	169
35	Femtosecond exciton dynamics in WSe_2 optical waveguides. <i>Nature Communications</i> , 2020, 11, 3567.	5.8	31
36	Layered Antiferromagnetism Induces Large Negative Magnetoresistance in the van der Waals Semiconductor CrSBr. <i>Advanced Materials</i> , 2020, 32, e2003240.	11.1	116

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37	Understanding lead halide perovskites. <i>Journal of Chemical Physics</i> , 2020, 153, 030401.	1.2	4
38	Singlet fission. <i>Journal of Chemical Physics</i> , 2020, 153, 110401.	1.2	3
39	Chemical physics of materials. <i>Journal of Chemical Physics</i> , 2020, 153, 100402.	1.2	0
40	Direct determination of momentum-resolved electron transfer in the photoexcited van der Waals heterobilayer WSe_2/MoS_2 . <i>Physical Review B</i> , 2020, 101, .	1.1	43
41	Stringing the Perylene Diimide Bow. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14303-14307.	7.2	23
42	Strong polaronic effect in a superatomic two-dimensional semiconductor. <i>Journal of Chemical Physics</i> , 2020, 152, 171101.	1.2	8
43	Charge carrier scattering and ultrafast Auger dynamics in two-dimensional superatomic semiconductors. <i>Applied Physics Letters</i> , 2020, 116, 201109.	1.5	1
44	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 861-866.	13.3	544
45	Visualization of moiré superlattices. <i>Nature Nanotechnology</i> , 2020, 15, 580-584.	15.6	187
46	Stringing the Perylene Diimide Bow. <i>Angewandte Chemie</i> , 2020, 132, 14409-14413.	1.6	5
47	Shape Matching in Superatom Chemistry and Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 11993-11998.	6.6	11
48	Doping-Induced Superconductivity in the van der Waals Superatomic Crystal $Re_6Se_8Cl_2$. <i>Nano Letters</i> , 2020, 20, 1718-1724.	4.5	28
49	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. <i>Science</i> , 2020, 367, 903-906.	6.0	262
50	Broad-Band Near-Infrared Doublet Emission in a Tetrathiafulvalene-Based Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 762-766.	2.1	11
51	Polariton panorama. <i>Nanophotonics</i> , 2020, 10, 549-577.	2.9	155
52	Screening of hot electrons in the ferroelectric semiconductor In_2S_3 . <i>Physical Review B</i> , 2020, 101, .	1.1	3
53	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Exciton-Phonon Interaction. <i>ACS Central Science</i> , 2019, 5, 1377-1386.	5.3	142
54	Hierarchical Coherent Phonons in a Superatomic Semiconductor. <i>Advanced Materials</i> , 2019, 31, e1903209.	11.1	9

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55	Controlling Singlet Fission by Molecular Contortion. <i>Journal of the American Chemical Society</i> , 2019, 141, 13143-13147.	6.6	47
56	Optical generation of high carrier densities in 2D semiconductor heterobilayers. <i>Science Advances</i> , 2019, 5, eaax0145.	4.7	80
57	Light-Matter Interaction and Lasing in Lead Halide Perovskites. <i>Accounts of Chemical Research</i> , 2019, 52, 2950-2959.	7.6	43
58	Dynamic Screening and Slow Cooling of Hot Carriers in Lead Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1803054.	11.1	86
59	Triplet Pair States in Singlet Fission. <i>Chemical Reviews</i> , 2019, 119, 4261-4292.	23.0	282
60	Metal halide perovskite nanostructures for optoelectronic applications and the study of physical properties. <i>Nature Reviews Materials</i> , 2019, 4, 169-188.	23.3	598
61	Bimodal Bandgaps in Mixed Cesium Methylammonium Lead Bromide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14865-14870.	1.5	15
62	Direct Determination of Band-Gap Renormalization in the Photoexcited Monolayer MoS_2 . <i>Physical Review Letters</i> , 2019, 122, 246803.	2.9	92
63	$\text{Mo}_6\text{S}_3\text{Br}_6$: An Anisotropic 2D Superatomic Semiconductor. <i>Advanced Functional Materials</i> , 2019, 29, 1902951.	7.8	10
64	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. <i>Nano Letters</i> , 2019, 19, 4371-4379.	4.5	161
65	Enhanced Open-Circuit Voltage in Perovskite Solar Cells with Open-Cage [60]Fullerene Derivatives as Electron-Transporting Materials. <i>Materials</i> , 2019, 12, 1314.	1.3	13
66	How lasing happens in CsPbBr_3 perovskite nanowires. <i>Nature Communications</i> , 2019, 10, 265.	5.8	168
67	Ferroelectric large polarons. <i>Nature Materials</i> , 2018, 17, 379-381.	13.3	103
68	Two-Dimensional Fullerene Assembly from an Exfoliated van der Waals Template. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6125-6129.	7.2	18
69	Competition Between Hot-Electron Cooling and Large Polaron Screening in CsPbBr_3 Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13724-13730.	1.5	59
70	Superatomic Two-Dimensional Semiconductor. <i>Nano Letters</i> , 2018, 18, 1483-1488.	4.5	41
71	Continuous-Wave Lasing in Cesium Lead Bromide Perovskite Nanowires. <i>Advanced Optical Materials</i> , 2018, 6, 1700982.	3.6	161
72	Two-Dimensional Fullerene Assembly from an Exfoliated van der Waals Template. <i>Angewandte Chemie</i> , 2018, 130, 6233-6237.	1.6	6

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73	A modular synthetic approach for band-gap engineering of armchair graphene nanoribbons. <i>Nature Communications</i> , 2018, 9, 1687.	5.8	59
74	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe ₂ . <i>Nature Materials</i> , 2018, 17, 411-415.	13.3	60
75	Spontaneous Electronic Band Formation and Switchable Behaviors in a Phase-Rich Superatomic Crystal. <i>Journal of the American Chemical Society</i> , 2018, 140, 15601-15605.	6.6	17
76	Experimental Demonstration of Correlated Flux Scaling in Photoconductivity and Photoluminescence of Lead-Halide Perovskites. <i>Physical Review Applied</i> , 2018, 10, .	1.5	11
77	Three-Dimensional Graphene Nanostructures. <i>Journal of the American Chemical Society</i> , 2018, 140, 9341-9345.	6.6	93
78	Quantifying Polaron Formation and Charge Carrier Cooling in Lead-Iodide Perovskites. <i>Advanced Materials</i> , 2018, 30, e1707312.	11.1	124
79	Two-Dimensional Hierarchical Semiconductor with Addressable Surfaces. <i>Journal of the American Chemical Society</i> , 2018, 140, 9369-9373.	6.6	22
80	Two-dimensional itinerant ferromagnetism in atomically thin Fe ₃ GeTe ₂ . <i>Nature Materials</i> , 2018, 17, 778-782.	13.3	995
81	Nanobubble induced formation of quantum emitters in monolayer semiconductors. <i>2D Materials</i> , 2017, 4, 021019.	2.0	76
82	Direct Time-Domain View of Auger Recombination in a Semiconductor. <i>Physical Review Letters</i> , 2017, 118, 087402.	2.9	8
83	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. <i>2D Materials</i> , 2017, 4, 031011.	2.0	242
84	Helical Nanoribbons for Ultra-Narrowband Photodetectors. <i>Journal of the American Chemical Society</i> , 2017, 139, 5644-5647.	6.6	97
85	Long, Atomically Precise Donor-Acceptor Cove-Edge Nanoribbons as Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2017, 139, 5648-5651.	6.6	150
86	Interfacial Charge Transfer Circumventing Momentum Mismatch at Two-Dimensional van der Waals Heterojunctions. <i>Nano Letters</i> , 2017, 17, 3591-3598.	4.5	172
87	Electrostatic Screening of Charged Defects in Monolayer MoS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2148-2152.	2.1	40
88	Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. <i>Nano Letters</i> , 2017, 17, 4405-4414.	4.5	204
89	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017, 543, 647-656.	13.7	477
90	Dynamics of the triplet-pair state reveals the likely coexistence of coherent and incoherent singlet fission in crystalline hexacene. <i>Nature Chemistry</i> , 2017, 9, 341-346.	6.6	155

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91	Role of Dielectric Drag in Polaron Mobility in Lead Halide Perovskites. ACS Energy Letters, 2017, 2, 2555-2562.	8.8	90
92	Covey Edge Nanoribbon Materials for Efficient Inverted Halide Perovskite Solar Cells. Angewandte Chemie, 2017, 129, 14840-14844.	1.6	16
93	Covey Edge Nanoribbon Materials for Efficient Inverted Halide Perovskite Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 14648-14652.	7.2	51
94	Lead halide perovskites: Crystal-liquid duality, phonon glass electron crystals, and large polaron formation. Science Advances, 2017, 3, e1701469.	4.7	323
95	Trion-Species-Resolved Quantum Beats in MoSe ₂ . ACS Nano, 2017, 11, 11550-11558.	7.3	33
96	Light-induced picosecond rotational disordering of the inorganic sublattice in hybrid perovskites. Science Advances, 2017, 3, e1602388.	4.7	149
97	Distinct properties of the triplet pair state from singlet fission. Science Advances, 2017, 3, e1700241.	4.7	102
98	Large polarons in lead halide perovskites. Science Advances, 2017, 3, e1701217.	4.7	515
99	Single-crystal-to-single-crystal intercalation of a low-bandgap superatomic crystal. Nature Chemistry, 2017, 9, 1170-1174.	6.6	56
100	Organic Cations Might Not Be Essential to the Remarkable Properties of Band Edge Carriers in Lead Halide Perovskites. Advanced Materials, 2017, 29, 1603072.	11.1	166
101	Real-time view of liquid-like screening and large polaron formation in lead halide perovskites. , 2017, , .		0
102	Intrinsic Charge Transport across Phase Transitions in Hybrid Organo-Inorganic Perovskites. Advanced Materials, 2016, 28, 6509-6514.	11.1	103
103	Rigid, Conjugated Macrocycles for High Performance Organic Photodetectors. Journal of the American Chemical Society, 2016, 138, 16426-16431.	6.6	98
104	Determine electric field directions at semiconductor surfaces by femtosecond frequency domain interferometric second harmonic (FDISH) generation. Chemical Physics, 2016, 478, 69-72.	0.9	0
105	A Direct Mechanism of Ultrafast Intramolecular Singlet Fission in Pentacene Dimers. ACS Central Science, 2016, 2, 316-324.	5.3	176
106	Screening in crystalline liquids protects energetic carriers in hybrid perovskites. Science, 2016, 353, 1409-1413.	6.0	655
107	Broad Wavelength Tunable Robust Lasing from Single-Crystal Nanowires of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, I). ACS Nano, 2016, 10, 7963-7972.	7.3	507
108	Electron-Phonon Scattering in Atomically Thin 2D Perovskites. ACS Nano, 2016, 10, 9992-9998.	7.3	215

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109	Persistent Energetic Electrons in Methylammonium Lead Iodide Perovskite Thin Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 15717-15726.	6.6	107
110	Extended carrier lifetimes and diffusion in hybrid perovskites revealed by Hall effect and photoconductivity measurements. <i>Nature Communications</i> , 2016, 7, 12253.	5.8	363
111	Efficient Bottom-Up Preparation of Graphene Nanoribbons by Mild Suzuki-Miyaura Polymerization of Simple Triaryl Monomers. <i>Chemistry - A European Journal</i> , 2016, 22, 9116-9120.	1.7	55
112	Mechanism for Broadband White-Light Emission from Two-Dimensional (110) Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2258-2263.	2.1	428
113	van der Waals Solids from Self-Assembled Nanoscale Building Blocks. <i>Nano Letters</i> , 2016, 16, 1445-1449.	4.5	56
114	Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability. <i>Nano Letters</i> , 2016, 16, 1000-1008.	4.5	391
115	Direct Observation of Entropy-Driven Electron-Hole Pair Separation at an Organic Semiconductor Interface. <i>Physical Review Letters</i> , 2015, 114, 247003.	2.9	82
116	How does one exciton split into two in organic semiconductors?. , 2015, , .		0
117	Charge Transfer Excitons at van der Waals Interfaces. <i>Journal of the American Chemical Society</i> , 2015, 137, 8313-8320.	6.6	252
118	Intra- to Intermolecular Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1312-1319.	1.5	65
119	Trap States in Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2015, 137, 2089-2096.	6.6	813
120	Charge Transfer-Mediated Singlet Fission. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 601-618.	4.8	241
121	A design strategy for intramolecular singlet fission mediated by charge-transfer states in donor-acceptor organic materials. <i>Nature Materials</i> , 2015, 14, 426-433.	13.3	298
122	Photoemission from excitons in organic semiconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 75-79.	0.8	12
123	Many-body interactions in photo-excited lead iodide perovskite. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9285-9290.	5.2	144
124	Excitonic Many-Body Interactions in Two-Dimensional Lead Iodide Perovskite Quantum Wells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14714-14721.	1.5	198
125	Rational Fabrication of Arrays of Plasmonic Metal-Quantum Dot Sandwiched Nanodisks with Enhanced Förster Resonance Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16230-16238.	1.5	1
126	Quantitative Intramolecular Singlet Fission in Bipentacenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8965-8972.	6.6	324

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127	Lead halide perovskite nanowire lasers with low lasing thresholds and high quality factors. <i>Nature Materials</i> , 2015, 14, 636-642.	13.3	2,392
128	Strain-Induced Stereoselective Formation of Blue-Emitting Cyclostilbenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 12282-12288.	6.6	20
129	Molecular helices as electron acceptors in high-performance bulk heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 8242.	5.8	525
130	Charge Saturation and Intrinsic Doping in Electrolyte-Gated Organic Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4840-4844.	2.1	15
131	Charge Carriers in Hybrid Organic-Inorganic Lead Halide Perovskites Might Be Protected as Large Polarons. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4758-4761.	2.1	456
132	Time-, Energy-, and Phase-Resolved Second-Harmonic Generation at Semiconductor Interfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27981-27988.	1.5	19
133	Helical Ribbons for Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2014, 136, 8122-8130.	6.6	243
134	Multiphonon Relaxation Slows Singlet Fission in Crystalline Hexacene. <i>Journal of the American Chemical Society</i> , 2014, 136, 10654-10660.	6.6	114
135	Probing Transient Electric Fields in Photoexcited Organic Semiconductor Thin Films and Interfaces by Time-Resolved Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10670-10676.	1.5	14
136	Efficient Organic Solar Cells with Helical Perylene Diimide Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2014, 136, 15215-15221.	6.6	414
137	Charge Transport and Separation Dynamics at the $\text{C}_{60}/\text{GaAs}(001)$ Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2987-2991.	1.5	6
138	How to Draw Energy Level Diagrams in Excitonic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2283-2288.	2.1	50
139	Exceeding the Limit in Solar Energy Conversion with Multiple Excitons. <i>Accounts of Chemical Research</i> , 2013, 46, 1239-1241.	7.6	19
140	Harvesting singlet fission for solar energy conversion via triplet energy transfer. <i>Nature Communications</i> , 2013, 4, 2679.	5.8	70
141	Exceeding the Shockley-Queisser limit in solar energy conversion. <i>Energy and Environmental Science</i> , 2013, 6, 3508.	15.6	106
142	Quantifying space charge accumulation in organic bulk heterojunctions by nonlinear optical microscopy. <i>Organic Electronics</i> , 2013, 14, 3014-3018.	1.4	4
143	Hot charge-transfer excitons set the time limit for charge separation at donor/acceptor interfaces in organic photovoltaics. <i>Nature Materials</i> , 2013, 12, 66-73.	13.3	590
144	The Quantum Coherent Mechanism for Singlet Fission: Experiment and Theory. <i>Accounts of Chemical Research</i> , 2013, 46, 1321-1329.	7.6	262

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145	Optical Probe of Charge Separation at Organic/Inorganic Semiconductor Interfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10974-10979.	1.5	23
146	Mapping electric field distributions in biased organic bulk heterojunctions under illumination by nonlinear optical microscopy. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	20
147	The energy barrier in singlet fission can be overcome through coherent coupling and entropic gain. <i>Nature Chemistry</i> , 2012, 4, 840-845.	6.6	294
148	Harvesting Singlet Fission for Solar Energy Conversion: One- versus Two-Electron Transfer from the Quantum Mechanical Superposition. <i>Journal of the American Chemical Society</i> , 2012, 134, 18295-18302.	6.6	79
149	Anomalous Large Polarization Effect Responsible for Excitonic Red Shifts in PbSe Quantum Dot Solids. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 795-800.	2.1	72
150	Quantifying Interfacial Electric Fields and Local Crystallinity in Polymer/Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 2666-2673.	7.8	27
151	Probing ultrafast charge separation at organic donor/acceptor interfaces by a femtosecond electric field meter. <i>Applied Physics Letters</i> , 2011, 99, 083307.	1.5	26
152	Observing the Multiexciton State in Singlet Fission and Ensuing Ultrafast Multielectron Transfer. <i>Science</i> , 2011, 334, 1541-1545.	6.0	468
153	Hot-Electron Transfer from Semiconductor Nanocrystals. <i>Science</i> , 2010, 328, 1543-1547.	6.0	775
154	Electronic Structure and Dynamics at Organic Donor/Acceptor Interfaces. <i>MRS Bulletin</i> , 2010, 35, 443-448.	1.7	40
155	Mixing at the Charged Interface of a Polymer Semiconductor and a Polyelectrolyte Dielectric. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 862-867.	2.1	15
156	Intrinsic Charge Trapping in Organic and Polymeric Semiconductors: A Physical Chemistry Perspective. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 628-635.	2.1	198
157	Charge transfer excitons and image potential states on organic semiconductor surfaces. <i>Physical Review B</i> , 2009, 80, .	1.1	35
158	Polaron and ion diffusion in a poly(3-hexylthiophene) thin-film transistor gated with polymer electrolyte dielectric. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 291-296.	1.1	30
159	Temperature dependent relaxation of a "solid" liquid. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1285-1290.	2.4	57
160	Exciton dynamics at interfaces of organic semiconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 116-124.	0.8	23
161	A Dynamic Landscape from Femtoseconds to Minutes for Excess Electrons at Ice/Metal Interfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 979-988.	1.5	61
162	Quantitative Glycomics from Fluidic Glycan Microarrays. <i>Journal of the American Chemical Society</i> , 2009, 131, 13646-13650.	6.6	37

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163	Charge-Transfer Excitons at Organic Semiconductor Surfaces and Interfaces. <i>Accounts of Chemical Research</i> , 2009, 42, 1779-1787.	7.6	351
164	Friction, Wear, and Aging of an Alkoxy-monolayer Boundary Lubricant on Silicon. <i>Tribology Letters</i> , 2008, 30, 205-213.	1.2	5
165	Electron Dynamics at the ZnO (101̄...0) Surface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14682-14692.	1.5	38
166	Charge Transport, Nanostructure, and the Mott Insulator-to-Metal Transition in Poly(3-hexylthiophene). <i>Journal of Physical Chemistry C</i> , 2008, 112, 16174-16177.	1.5	10
167	Image-potential states on the metallic (111) surface of bismuth. <i>New Journal of Physics</i> , 2008, 10, 113018.	1.2	17
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