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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.

189 papers	33,391 citations	68 h-index	182 g-index
226 ext. papers	37,853 ext. citations	12.7 avg, IF	7.74 L-index

#	Paper	IF	Citations
189	Electron-hole diffusion lengths exceeding 1 micrometer in an organometal trihalide perovskite absorber. <i>Science</i> , 2013 , 342, 341-4	33.3	7280
188	Formamidinium lead trihalide: a broadly tunable perovskite for efficient planar heterojunction solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 982	35.4	2706
187	High charge carrier mobilities and lifetimes in organolead trihalide perovskites. <i>Advanced Materials</i> , 2014 , 26, 1584-9	24	2282
186	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. <i>Science</i> , 2016 , 351, 151-5	33.3	2024
185	Lead-free organic/inorganic tin halide perovskites for photovoltaic applications. <i>Energy and Environmental Science</i> , 2014 , 7, 3061-3068	35.4	1635
184	Efficient ambient-air-stable solar cells with 2D/3D heterostructured butylammonium-caesium-formamidinium lead halide perovskites. <i>Nature Energy</i> , 2017 , 2,	62.3	901
183	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , 2016 , 354, 861-865	33.3	865
182	Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , 2016 , 7,	17.4	668
181	Hybrid Perovskites for Photovoltaics: Charge-Carrier Recombination, Diffusion, and Radiative Efficiencies. <i>Accounts of Chemical Research</i> , 2016 , 49, 146-54	24.3	645
180	Temperature-Dependent Charge-Carrier Dynamics in CH ₃ NH ₃ PbI ₃ Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2015 , 25, 6218-6227	15.6	645
179	Charge-Carrier Mobilities in Metal Halide Perovskites: Fundamental Mechanisms and Limits. <i>ACS Energy Letters</i> , 2017 , 2, 1539-1548	20.1	621
178	Electron mobility and injection dynamics in mesoporous ZnO, SnO ₂ and TiO ₂ films used in dye-sensitized solar cells. <i>ACS Nano</i> , 2011 , 5, 5158-66	16.7	602
177	CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 772-778	6.4	494
176	Charge-Carrier Dynamics in Organic-Inorganic Metal Halide Perovskites. <i>Annual Review of Physical Chemistry</i> , 2016 , 67, 65-89	15.7	466
175	Charge-carrier dynamics in vapour-deposited films of the organolead halide perovskite CH ₃ NH ₃ PbI ₃ -xCl _x . <i>Energy and Environmental Science</i> , 2014 , 7, 2269-2275	35.4	378
174	Exciton regeneration at polymeric semiconductor heterojunctions. <i>Physical Review Letters</i> , 2004 , 92, 247402	7.4	375
173	Photovoltaic mixed-cation lead mixed-halide perovskites: links between crystallinity, photo-stability and electronic properties. <i>Energy and Environmental Science</i> , 2017 , 10, 361-369	35.4	362

172	Charge selective contacts, mobile ions and anomalous hysteresis in organic/inorganic perovskite solar cells. <i>Materials Horizons</i> , 2015 , 2, 315-322	14.4	338
171	Interchain vs. intrachain energy transfer in acceptor-capped conjugated polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10982-7	11.5	328
170	Charge-Carrier Dynamics in 2D Hybrid Metal-Halide Perovskites. <i>Nano Letters</i> , 2016 , 16, 7001-7007	11.5	327
169	Homogeneous Emission Line Broadening in the Organo Lead Halide Perovskite CH ₃ NH ₃ PbI ₃ -xCl _x . <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1300-6	6.4	286
168	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. <i>Advanced Materials</i> , 2015 , 27, 7938-44	24	276
167	Exciton migration in rigid-rod conjugated polymers: an improved Förster model. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4744-62	16.4	245
166	Vibrational Properties of the Organic/Inorganic Halide Perovskite CH ₃ NH ₃ PbI ₃ from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25703-25718	3.8	220
165	Carrier lifetime and mobility enhancement in nearly defect-free core-shell nanowires measured using time-resolved terahertz spectroscopy. <i>Nano Letters</i> , 2009 , 9, 3349-53	11.5	216
164	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016 , 28, 923-9	24	209
163	Electronic properties of GaAs, InAs and InP nanowires studied by terahertz spectroscopy. <i>Nanotechnology</i> , 2013 , 24, 214006	3.4	205
162	Morphology-dependent energy transfer within polyfluorene thin films. <i>Physical Review B</i> , 2004 , 69,	3.3	201
161	Crystallization Kinetics and Morphology Control of Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskite via Tunability of the Colloidal Precursor Solution. <i>Advanced Materials</i> , 2017 , 29, 1607039	24	197
160	Belt-shaped π -Systems: relating geometry to electronic structure in a six-porphyrin nanoring. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17262-73	16.4	181
159	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. <i>Nature Communications</i> , 2018 , 9, 293	17.4	175
158	Charge carrier recombination channels in the low-temperature phase of organic-inorganic lead halide perovskite thin films. <i>APL Materials</i> , 2014 , 2, 081513	5.7	170
157	Enhanced π conjugation around a porphyrin[6] nanoring. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4993-6	16.4	166
156	Ultrafast transient terahertz conductivity of monolayer MoS ₂ and WSe ₂ grown by chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 11147-53	16.7	161
155	Transient Terahertz Conductivity of GaAs Nanowires. <i>Nano Letters</i> , 2007 , 7, 2162-2165	11.5	156

154	Identification of a triplet pair intermediate in singlet exciton fission in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7656-61	11.5	151
153	High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , 2018 , 3, 855-861	62.3	140
152	Electronic Traps and Phase Segregation in Lead Mixed-Halide Perovskite. <i>ACS Energy Letters</i> , 2019 , 4, 75-84	20.1	134
151	The entangled triplet pair state in acene and heteroacene materials. <i>Nature Communications</i> , 2017 , 8, 15953	17.4	133
150	Ultralow surface recombination velocity in InP nanowires probed by terahertz spectroscopy. <i>Nano Letters</i> , 2012 , 12, 5325-30	11.5	127
149	Solution-Processed All-Perovskite Multi-junction Solar Cells. <i>Joule</i> , 2019 , 3, 387-401	27.8	109
148	Photon Reabsorption Masks Intrinsic Bimolecular Charge-Carrier Recombination in CHNHPbI Perovskite. <i>Nano Letters</i> , 2017 , 17, 5782-5789	11.5	108
147	Preventing phase segregation in mixed-halide perovskites: a perspective. <i>Energy and Environmental Science</i> , 2020 , 13, 2024-2046	35.4	107
146	Effect of Structural Phase Transition on Charge-Carrier Lifetimes and Defects in CH ₃ NH ₃ SnI ₃ Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1321-6	6.4	105
145	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , 2015 , 15, 4935-41	11.5	97
144	Extreme sensitivity of graphene photoconductivity to environmental gases. <i>Nature Communications</i> , 2012 , 3, 1228	17.4	94
143	Efficient energy transfer in mixed columnar stacks of hydrogen-bonded oligo(p-phenylene vinylene)s in solution. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1976-9	16.4	94
142	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1804506	24	94
141	Band-Tail Recombination in Hybrid Lead Iodide Perovskite. <i>Advanced Functional Materials</i> , 2017 , 27, 1700860	19.6	94
140	How Lattice Dynamics Moderate the Electronic Properties of Metal-Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6853-6863	6.4	92
139	Ultrafast delocalization of excitation in synthetic light-harvesting nanorings. <i>Chemical Science</i> , 2015 , 6, 181-189	9.4	90
138	Efficient generation of charges via below-gap photoexcitation of polymer-fullerene blend films investigated by terahertz spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	88
137	Self-Assembly of Russian Doll Concentric Porphyrin Nanorings. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12713-8	16.4	87

136	Large-Area, Highly Uniform Evaporated Formamidinium Lead Triiodide Thin Films for Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 2799-2804	20.1	86
135	Atomic-scale microstructure of metal halide perovskite. <i>Science</i> , 2020 , 370,	33.3	86
134	Understanding the Performance-Limiting Factors of Cs ₂ AgBiBr ₆ Double-Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2200-2207	20.1	84
133	Role of Ultrafast Torsional Relaxation in the Emission from Polythiophene Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2788-2792	6.4	84
132	Dynamics of excited-state conformational relaxation and electronic delocalization in conjugated porphyrin oligomers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10171-8	16.4	84
131	Effects of interchain interactions, polarization anisotropy, and photo-oxidation on the ultrafast photoluminescence decay from a polyfluorene. <i>Physical Review B</i> , 2000 , 61, 13691-13697	3.3	84
130	Formation Dynamics of CH ₃ NH ₃ PbI ₃ Perovskite Following Two-Step Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 96-102	6.4	82
129	Low-energy vibrational modes in phenylene oligomers studied by THz time-domain spectroscopy. <i>Chemical Physics Letters</i> , 2003 , 377, 256-262	2.5	78
128	Radiative Monomolecular Recombination Boosts Amplified Spontaneous Emission in HC(NH)SnI Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4178-4184	6.4	78
127	Structural and Optical Properties of Cs ₂ AgBiBr ₆ Double Perovskite. <i>ACS Energy Letters</i> , 2019 , 4, 299-305	20.1	78
126	A Molecular Nanotube with Three-Dimensional π -Conjugation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7344-8	16.4	77
125	Excitation migration along oligophenylenevinylene-based chiral stacks: delocalization effects on transport dynamics. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10594-604	3.4	77
124	Ultrafast charge separation at a polymer-single-walled carbon nanotube molecular junction. <i>Nano Letters</i> , 2011 , 11, 66-72	11.5	76
123	Ultrafast Terahertz Conductivity Dynamics in Mesoporous TiO ₂ : Influence of Dye Sensitization and Surface Treatment in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1365-1371	3.8	73
122	Modulation doping of GaAs/AlGaAs core-shell nanowires with effective defect passivation and high electron mobility. <i>Nano Letters</i> , 2015 , 15, 1336-42	11.5	69
121	Six-Coordinate Zinc Porphyrins for Template-Directed Synthesis of Spiro-Fused Nanorings. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14256-9	16.4	67
120	Ultrafast energy transfer in biomimetic multistrand nanorings. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8217-20	16.4	67
119	Fast exciton diffusion in chiral stacks of conjugated p-phenylene vinylene oligomers. <i>Physical Review B</i> , 2003 , 68,	3.3	66

118	Electron mobilities approaching bulk limits in "surface-free" GaAs nanowires. <i>Nano Letters</i> , 2014 , 14, 5989-94	11.5	64
117	Influence of copolymer interface orientation on the optical emission of polymeric semiconductor heterojunctions. <i>Physical Review Letters</i> , 2006 , 96, 117403	7.4	63
116	Time-dependent energy transfer rates in a conjugated polymer guest-host system. <i>Physical Review B</i> , 2004 , 70,	3.3	61
115	Chromophores in Molecular Nanorings: When Is a Ring a Ring?. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4356-61	6.4	59
114	The origin of an efficiency improving light soaking effect in SnO ₂ based solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 9566	35.4	56
113	Crystallization of CsPbBr single crystals in water for X-ray detection. <i>Nature Communications</i> , 2021 , 12, 1531	17.4	55
112	Hybrid Perovskites: Prospects for Concentrator Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1700792	13.6	54
111	Influence of Interface Morphology on Hysteresis in Vapor-Deposited Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600470	6.4	53
110	Raman Spectrum of the Organic-Inorganic Halide Perovskite CH ₃ NH ₃ PbI ₃ from First Principles and High-Resolution Low-Temperature Raman Measurements. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21703-21717	3.8	53
109	Strong carrier lifetime enhancement in GaAs nanowires coated with semiconducting polymer. <i>Nano Letters</i> , 2012 , 12, 6293-301	11.5	52
108	Unraveling the Function of an MgO Interlayer in Both Electrolyte and Solid-State SnO ₂ Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22840-22846	3.8	52
107	Side chains control dynamics and self-sorting in fluorescent organic nanoparticles. <i>ACS Nano</i> , 2013 , 7, 408-16	16.7	52
106	Intermolecular interaction effects on the ultrafast depolarization of the optical emission from conjugated polymers. <i>Physical Review Letters</i> , 2007 , 98, 027402	7.4	52
105	Increased Photoconductivity Lifetime in GaAs Nanowires by Controlled n-Type and p-Type Doping. <i>ACS Nano</i> , 2016 , 10, 4219-27	16.7	51
104	Noncontact measurement of charge carrier lifetime and mobility in GaN nanowires. <i>Nano Letters</i> , 2012 , 12, 4600-4	11.5	51
103	Heterogeneous Photon Recycling and Charge Diffusion Enhance Charge Transport in Quasi-2D Lead-Halide Perovskite Films. <i>Nano Letters</i> , 2019 , 19, 3953-3960	11.5	50
102	Metal composition influences optoelectronic quality in mixed-metal lead-halide perovskite solar absorbers. <i>Energy and Environmental Science</i> , 2020 , 13, 1776-1787	35.4	50
101	Template-Directed Synthesis of a Conjugated Zinc Porphyrin Nanoball. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5352-5355	16.4	50

100	Halide Segregation in Mixed-Halide Perovskites: Influence of A-Site Cations. <i>ACS Energy Letters</i> , 2021 , 6, 799-808	20.1	46
99	Interplay of Structural and Optoelectronic Properties in Formamidinium Mixed Tin/Lead Triiodide Perovskites. <i>Advanced Functional Materials</i> , 2018 , 28, 1802803	15.6	45
98	Exciton bimolecular annihilation dynamics in supramolecular nanostructures of conjugated oligomers. <i>Physical Review B</i> , 2003 , 68,	3.3	44
97	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , 2018 , 3, 1233-1240	20.1	43
96	Near-Infrared and Short-Wavelength Infrared Photodiodes Based on Dye/Perovskite Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1702485	15.6	43
95	Towards supramolecular electronics. <i>Synthetic Metals</i> , 2004 , 147, 43-48	3.6	43
94	Fast Charge-Carrier Trapping in TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9159-9168	3.8	42
93	Synthesis of Five-Porphyrin Nanorings by Using Ferrocene and Corannulene Templates. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8358-62	16.4	42
92	Control over Crystal Size in Vapor Deposited Metal-Halide Perovskite Films. <i>ACS Energy Letters</i> , 2020 , 5, 710-717	20.1	42
91	Trap States, Electric Fields, and Phase Segregation in Mixed-Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 1903488	21.8	39
90	Dual-Source Coevaporation of Low-Bandgap FA _{1-x} Cs _x SnI ₃ /PbI ₃ Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 2748-2756	20.1	37
89	Dichroic Perylene Bisimide Triad Displaying Energy Transfer in Switchable Luminescent Solar Concentrators. <i>Chemistry of Materials</i> , 2014 , 26, 3876-3878	9.6	37
88	Morphology-dependent energy transfer dynamics in fluorene-based amphiphile nanoparticles. <i>ACS Nano</i> , 2012 , 6, 4777-87	16.7	37
87	Exciton and polaron dynamics in a step-ladder polymeric semiconductor: the influence of interchain order. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 9803-9824	1.8	37
86	Temperature-Dependent Refractive Index of Quartz at Terahertz Frequencies. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 1236-1248	2.2	37
85	Three-dimensional cross-nanowire networks recover full terahertz state. <i>Science</i> , 2020 , 368, 510-513	33.3	36
84	Impact of the Organic Cation on the Optoelectronic Properties of Formamidinium Lead Triiodide. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4502-4511	6.4	34
83	Terahertz Excitonic Response of Isolated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18106-18109	3.8	34

82	Directing energy transfer in discrete one-dimensional oligonucleotide-templated assemblies. <i>Chemical Communications</i> , 2011 , 47, 884-6	5.8	33
81	Analyzing the molecular weight distribution in supramolecular polymers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17696-704	16.4	33
80	Nanoengineering coaxial carbon nanotube-dual-polymer heterostructures. <i>ACS Nano</i> , 2012 , 6, 6058-66	16.7	32
79	Influence of mesoscopic ordering on the photoexcitation transfer dynamics in supramolecular assemblies of oligo-p-phenylenevinylene. <i>Chemical Physics Letters</i> , 2006 , 418, 196-201	2.5	32
78	Chirality-dependent boron-mediated growth of nitrogen-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	31
77	Growth modes and quantum confinement in ultrathin vapour-deposited MAPbI films. <i>Nanoscale</i> , 2019 , 11, 14276-14284	7.7	29
76	Impurity Tracking Enables Enhanced Control and Reproducibility of Hybrid Perovskite Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28851-28857	9.5	28
75	Surface Energy Relay Between Cosensitized Molecules in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23204-23208	3.8	28
74	Roadmap on organic/inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021 , 9, 109202	5.7	28
73	A Molecular Nanotube with Three-Dimensional π -Conjugation. <i>Angewandte Chemie</i> , 2015 , 127, 7452-7456	3.6	27
72	Dependence of Dye Regeneration and Charge Collection on the Pore-Filling Fraction in Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 668-677	15.6	27
71	Polarization anisotropy dynamics for thin films of a conjugated polymer aligned by nanoimprinting. <i>Physical Review B</i> , 2008 , 77,	3.3	27
70	Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004312	15.6	27
69	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3681-3688	6.4	27
68	Impact of Tin Fluoride Additive on the Properties of Mixed Tin-Lead Iodide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , 2020 , 30, 2005594	15.6	26
67	Optoelectronic Properties of Tin-Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2021 , 6, 2413-2426	20.1	26
66	Aromaticity and Antiaromaticity in the Excited States of Porphyrin Nanorings. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2017-2022	6.4	25
65	An ultrafast carbon nanotube terahertz polarisation modulator. <i>Journal of Applied Physics</i> , 2014 , 115, 203108	2.5	25

64	Ultrafast Excited-State Localization in CsAgBiBr Double Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3352-3360	6.4	25
63	Nanotechnology for catalysis and solar energy conversion. <i>Nanotechnology</i> , 2021 , 32, 042003	3.4	24
62	Structure-Directed Exciton Dynamics in Templated Molecular Nanorings. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6414-6420	3.8	23
61	Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2D/3D Hybrid Butylammonium/Cesium Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , 2019 , 29, 1902656	15.6	22
60	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. <i>Nano Letters</i> , 2018 , 18, 3703-3710	11.5	22
59	Combining Positive and Negative Dichroic Fluorophores for Advanced Light Management in Luminescent Solar Concentrators. <i>Advanced Optical Materials</i> , 2014 , 2, 687-693	8.1	22
58	Direct observation of charge-carrier heating at WZ-ZB InP nanowire heterojunctions. <i>Nano Letters</i> , 2013 , 13, 4280-7	11.5	22
57	Theory of non-Condon emission from the interchain exciton in conjugated polymer aggregates. <i>Journal of Chemical Physics</i> , 2007 , 126, 191102	3.9	22
56	Rapid Energy Transfer Enabling Control of Emission Polarization in Perylene Bisimide Donor-Acceptor Triads. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1170-6	6.4	21
55	Dynamic terahertz polarization in single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	21
54	Effect of Ultraviolet Radiation on Organic Photovoltaic Materials and Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21543-21551	9.5	19
53	How Phase Content Moderates Chain Conjugation and Energy Transfer in Polyfluorene Films. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1729-1736	6.4	19
52	Breaking the Symmetry in Molecular Nanorings. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 332-8	6.4	19
51	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19850-19858	3.8	18
50	Dimensionality-dependent energy transfer in polymer-intercalated SnS ₂ nanocomposites. <i>Physical Review B</i> , 2007 , 75,	3.3	18
49	Synthesis of Five-Porphyrin Nanorings by Using Ferrocene and Corannulene Templates. <i>Angewandte Chemie</i> , 2016 , 128, 8498-8502	3.6	18
48	Size-Independent Energy Transfer in Biomimetic Nanoring Complexes. <i>ACS Nano</i> , 2016 , 10, 5933-40	16.7	18
47	The influence of surfaces on the transient terahertz conductivity and electron mobility of GaAs nanowires. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 224001	3	17

46	Tuning the Circumference of Six-Porphyrin Nanorings. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7965-7971	16.4	17
45	CsPbBr ₃ Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1909904	15.6	17
44	Photocurrent Spectroscopy of Perovskite Solar Cells Over a Wide Temperature Range from 15 to 350 K. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 263-268	6.4	17
43	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 1903653	21.8	17
42	Mesoscopic order and the dimensionality of long-range resonance energy transfer in supramolecular semiconductors. <i>Journal of Chemical Physics</i> , 2008 , 129, 104701	3.9	16
41	Phase segregation in mixed-halide perovskites affects charge-carrier dynamics while preserving mobility. <i>Nature Communications</i> , 2021 , 12, 6955	17.4	16
40	Highly Absorbing Lead-Free Semiconductor CuAgBiI ₄ for Photovoltaic Applications from the Quaternary CuI-AgI-BiI ₃ Phase Space. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3983-3992	16.4	16
39	Ultrafast dynamics of exciton formation in semiconductor nanowires. <i>Small</i> , 2012 , 8, 1725-31	11	15
38	The effects of supramolecular assembly on exciton decay rates in organic semiconductors. <i>Journal of Chemical Physics</i> , 2005 , 123, 084902	3.9	15
37	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. <i>Energy and Environmental Science</i> ,	35.4	15
36	Polarons and Charge Localization in Metal-Halide Semiconductors for Photovoltaic and Light-Emitting Devices. <i>Advanced Materials</i> , 2021 , 33, e2007057	24	15
35	Photoexcitation dynamics in thin films of insulated molecular wires. <i>Applied Physics Letters</i> , 2006 , 89, 232110	3.4	14
34	Charge-Carrier Mobility and Localization in Semiconducting CuAgBiI ₄ for Photovoltaic Applications. <i>ACS Energy Letters</i> , 2021 , 6, 1729-1739	20.1	14
33	Limits to Electrical Mobility in Lead-Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3607-3617	6.4	14
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