

# Michael B Johnston

## 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.

194  
papers

33,019  
citations

69  
h-index

181  
g-index

265  
ext. papers

37,754  
ext. citations

12.6  
avg, IF

7.65  
L-index

#	Paper	IF	Citations
194	Optoelectronic Properties of Mixed Iodide-Bromide Perovskites from First-Principles Computational Modeling and Experiment.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 4184-4192	6.4	2
193	The application of one-dimensional nanostructures in terahertz frequency devices. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041314	17.3	2
192	Phase segregation in mixed-halide perovskites affects charge-carrier dynamics while preserving mobility. <i>Nature Communications</i> , <b>2021</b> , 12, 6955	17.4	16
191	Nanotechnology for catalysis and solar energy conversion. <i>Nanotechnology</i> , <b>2021</b> , 32, 042003	3.4	24
190	Ultrafast Excited-State Localization in CsAgBiBr Double Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3352-3360	6.4	25
189	Crystallization of CsPbBr single crystals in water for X-ray detection. <i>Nature Communications</i> , <b>2021</b> , 12, 1531	17.4	55
188	Charge-Carrier Mobility and Localization in Semiconducting CuAgBiI for Photovoltaic Applications. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1729-1739	20.1	14
187	Limits to Electrical Mobility in Lead-Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3607-3617	6.4	14
186	Understanding Dark Current-Voltage Characteristics in Metal-Halide Perovskite Single Crystals. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	12
185	Halide Segregation in Mixed-Halide Perovskites: Influence of A-Site Cations. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 799-808	20.1	46
184	The atomic-scale microstructure of metal halide perovskite elucidated via low-dose electron microscopy. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 966-968	0.5	
183	Revealing Ultrafast Charge-Carrier Thermalization in Tin-Iodide Perovskites through Novel Pump-Push-Probe Terahertz Spectroscopy. <i>ACS Photonics</i> , <b>2021</b> , 8, 2509-2518	6.3	5
182	Ultrafast photo-induced phonon hardening due to Pauli blocking in MAPbI3 single-crystal and polycrystalline perovskites. <i>JPhys Materials</i> , <b>2021</b> , 4, 044017	4.2	0
181	CsPbBr3 Nanocrystal Films: Deviations from Bulk Vibrational and Optoelectronic Properties. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909904	15.6	17
180	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , <b>2020</b> , 369, 96-102	33.3	231
179	Trap States, Electric Fields, and Phase Segregation in Mixed-Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903488	21.8	39
178	Three-dimensional cross-nanowire networks recover full terahertz state. <i>Science</i> , <b>2020</b> , 368, 510-513	33.3	36

177	Metal composition influences optoelectronic quality in mixed-metal lead-free triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1776-1787	35.4	50
176	Revealing the origin of voltage loss in mixed-halide perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 258-267	35.4	155
175	Elucidating the Role of a Tetrafluoroborate-Based Ionic Liquid at the n-Type Oxide/Perovskite Interface. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903231	21.8	50
174	Thermally Stable Passivation toward High Efficiency Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3336-3343	20.1	9
173	Control over Crystal Size in Vapor Deposited Metal-Halide Perovskite Films. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 710-717	20.1	42
172	Terahertz Conductivity Analysis for Highly Doped Thin-Film Semiconductors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1431-1449	2.2	12
171	Efficient energy transfer mitigates parasitic light absorption in molecular charge-extraction layers for perovskite solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 5525	17.4	6
170	Atomic-scale microstructure of metal halide perovskite. <i>Science</i> , <b>2020</b> , 370,	33.3	86
169	Impact of Tin Fluoride Additive on the Properties of Mixed Tin-Lead Iodide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005594	15.6	26
168	Intrinsic quantum confinement in formamidinium lead triiodide perovskite. <i>Nature Materials</i> , <b>2020</b> , 19, 1201-1206	27	10
167	Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004312	15.6	27
166	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3681-3688	6.4	27
165	Light Absorption and Recycling in Hybrid Metal Halide Perovskite Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903653	21.8	17
164	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 169-176	35.4	76
163	Effect of Ultraviolet Radiation on Organic Photovoltaic Materials and Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21543-21551	9.5	19
162	Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2DBD Hybrid Butylammonium/Cesium/Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902656	15.6	22
161	Heterogeneous Photon Recycling and Charge Diffusion Enhance Charge Transport in Quasi-2D Lead-Halide Perovskite Films. <i>Nano Letters</i> , <b>2019</b> , 19, 3953-3960	11.5	50
160	Impurity Tracking Enables Enhanced Control and Reproducibility of Hybrid Perovskite Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28851-28857	9.5	28

159	Growth modes and quantum confinement in ultrathin vapour-deposited MAPbI <sub>3</sub> films. <i>Nanoscale</i> , <b>2019</b> , 11, 14276-14284	7.7	29
158	Dual-Source Coevaporation of Low-Bandgap FA <sub>1-x</sub> Cs <sub>x</sub> Sn <sub>1-y</sub> Pb <sub>y</sub> I <sub>3</sub> Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2748-2756	20.1	37
157	Unveiling Temperature-Dependent Scattering Mechanisms in Semiconductor Nanowires Using Optical-Pump Terahertz-Probe Spectroscopy <b>2019</b> ,		2
156	Electronic Traps and Phase Segregation in Lead Mixed-Halide Perovskite. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 75-84	20.1	134
155	Solution-Processed All-Perovskite Multi-junction Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 387-401	27.8	109
154	Hybrid Perovskites: Prospects for Concentrator Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700792	13.6	54
153	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. <i>Nature Communications</i> , <b>2018</b> , 9, 293	17.4	175
152	Photocurrent Spectroscopy of Perovskite Solar Cells Over a Wide Temperature Range from 15 to 350 K. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 263-268	6.4	17
151	High Electron Mobility and Insights into Temperature-Dependent Scattering Mechanisms in InAsSb Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 3703-3710	11.5	22
150	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1233-1240	20.1	43
149	Interplay of Structural and Optoelectronic Properties in Formamidinium Mixed Tin-Lead Triiodide Perovskites. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802803	15.6	45
148	High irradiance performance of metal halide perovskites for concentrator photovoltaics. <i>Nature Energy</i> , <b>2018</b> , 3, 855-861	62.3	140
147	Impact of the Organic Cation on the Optoelectronic Properties of Formamidinium Lead Triiodide. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4502-4511	6.4	34
146	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 741-747	4.6	7
145	Distinguishing cap and core contributions to the photoconductive terahertz response of single GaAs based core-shell nanowire detectors. <i>Lithuanian Journal of Physics</i> , <b>2018</b> , 58,	1.1	1
144	Temperature-Dependent Refractive Index of Quartz at Terahertz Frequencies. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2018</b> , 39, 1236-1248	2.2	37
143	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804506	24	94
142	Raman Spectrum of the Organic-Inorganic Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from First Principles and High-Resolution Low-Temperature Raman Measurements. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21703-21717	3.8	53

141	Preface to Special Topic: Frontiers on THz photonic devices. <i>APL Photonics</i> , <b>2018</b> , 3, 051501	5.2	1
140	CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 772-778	6.4	494
139	Single n-i-n InP nanowires for highly sensitive terahertz detection. <i>Nanotechnology</i> , <b>2017</b> , 28, 125202	3.4	14
138	Efficient and Air-Stable Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells with n-Doped Organic Electron Extraction Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604186	24	211
137	The influence of surfaces on the transient terahertz conductivity and electron mobility of GaAs nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 224001	3	17
136	Towards higher electron mobility in modulation doped GaAs/AlGaAs core shell nanowires. <i>Nanoscale</i> , <b>2017</b> , 9, 7839-7846	7.7	10
135	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> , <b>2017</b> , 29, 1607039	24	197
134	Choice of Polymer Matrix for a Fast Switchable III-V Nanowire Terahertz Modulator. <i>MRS Advances</i> , <b>2017</b> , 2, 1475-1480	0.7	1
133	An Ultrafast Switchable Terahertz Polarization Modulator Based on III-V Semiconductor Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 2603-2610	11.5	51
132	Influence of Interface Morphology on Hysteresis in Vapor-Deposited Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600470	6.4	53
131	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 043001		724
130	Photovoltaic mixed-cation lead mixed-halide perovskites: links between crystallinity, photo-stability and electronic properties. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 361-369	35.4	362
129	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. <i>Joule</i> , <b>2017</b> , 1, 328-343	27.8	104
128	Near-Infrared and Short-Wavelength Infrared Photodiodes Based on Dye-Perovskite Composites. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702485	15.6	43
127	Photon Reabsorption Masks Intrinsic Bimolecular Charge-Carrier Recombination in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. <i>Nano Letters</i> , <b>2017</b> , 17, 5782-5789	11.5	108
126	Large-Area, Highly Uniform Evaporated Formamidinium Lead Triiodide Thin Films for Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2799-2804	20.1	86
125	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 145-152	35.4	253
124	Investigations of doping via optical pump terahertz-probe spectroscopy <b>2017</b> ,		1

123	Band-Tail Recombination in Hybrid Lead Iodide Perovskite. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700860	18.6	94
122	Broadband Phase-Sensitive Single InP Nanowire Photoconductive Terahertz Detectors. <i>Nano Letters</i> , <b>2016</b> , 16, 4925-31	11.5	27
121	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2892-2901	35.4	301
120	Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , <b>2016</b> , 7,	17.4	668
119	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , <b>2016</b> , 354, 861-865	33.3	865
118	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , <b>2016</b> , 28, 923-9	24	209
117	Formation Dynamics of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Following Two-Step Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 96-102	6.4	82
116	Hybrid Perovskites for Photovoltaics: Charge-Carrier Recombination, Diffusion, and Radiative Efficiencies. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 146-54	24.3	645
115	Effect of Structural Phase Transition on Charge-Carrier Lifetimes and Defects in CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1321-6	6.4	105
114	Increased Photoconductivity Lifetime in GaAs Nanowires by Controlled n-Type and p-Type Doping. <i>ACS Nano</i> , <b>2016</b> , 10, 4219-27	16.7	51
113	Enhanced UV-light stability of planar heterojunction perovskite solar cells with caesium bromide interface modification. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 490-498	35.4	450
112	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. <i>Science</i> , <b>2016</b> , 351, 151-5	33.3	2024
111	Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502458	21.8	992
110	Charge-Carrier Dynamics in 2D Hybrid Metal-Halide Perovskites. <i>Nano Letters</i> , <b>2016</b> , 16, 7001-7007	11.5	327
109	Radiative Monomolecular Recombination Boosts Amplified Spontaneous Emission in HC(NH)SnI Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4178-4184	6.4	78
108	A review of the electrical properties of semiconductor nanowires: insights gained from terahertz conductivity spectroscopy. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 103003	1.8	103
107	Enhanced Amplified Spontaneous Emission in Perovskites Using a Flexible Cholesteric Liquid Crystal Reflector. <i>Nano Letters</i> , <b>2015</b> , 15, 4935-41	11.5	97
106	Fast Charge-Carrier Trapping in TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9159-9168	3.8	42

105	In(x)Ga(1-x)As nanowires with uniform composition, pure wurtzite crystal phase and taper-free morphology. <i>Nanotechnology</i> , <b>2015</b> , 26, 205604	3.4	29
104	Charge selective contacts, mobile ions and anomalous hysteresis in organic/inorganic perovskite solar cells. <i>Materials Horizons</i> , <b>2015</b> , 2, 315-322	14.4	338
103	Vibrational Properties of the Organic/Inorganic Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25703-25718	3.8	220
102	Single Nanowire Terahertz Detectors <b>2015</b> ,		1
101	Low ensemble disorder in quantum well tube nanowires. <i>Nanoscale</i> , <b>2015</b> , 7, 20531-8	7.7	11
100	Single nanowire photoconductive terahertz detectors. <i>Nano Letters</i> , <b>2015</b> , 15, 206-10	11.5	78
99	Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 602-609	35.4	335
98	Efficient, Semitransparent Neutral-Colored Solar Cells Based on Microstructured Formamidinium Lead Trihalide Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 129-38	6.4	153
97	Optical Description of Mesostructured Organic-Inorganic Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 48-53	6.4	51
96	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. <i>Advanced Materials</i> , <b>2015</b> , 27, 7938-44	24	276
95	Temperature-Dependent Charge-Carrier Dynamics in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Thin Films. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6218-6227	15.6	645
94	FTU Diagnostic System Based on THz Time-domain Spectroscopy. <i>Physics Procedia</i> , <b>2015</b> , 62, 65-70		
93	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5038-5046	15.6	167
92	Highly efficient perovskite solar cells with tunable structural color. <i>Nano Letters</i> , <b>2015</b> , 15, 1698-702	11.5	240
91	Modulation doping of GaAs/AlGaAs core-shell nanowires with effective defect passivation and high electron mobility. <i>Nano Letters</i> , <b>2015</b> , 15, 1336-42	11.5	69
90	High charge carrier mobilities and lifetimes in organolead trihalide perovskites. <i>Advanced Materials</i> , <b>2014</b> , 26, 1584-9	24	2282
89	Lead-free organic/inorganic tin halide perovskites for photovoltaic applications. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3061-3068	35.4	1635
88	Solution Deposition-Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400355	21.8	305

87	Homogeneous Emission Line Broadening in the Organo Lead Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1300-6	6.4	286
86	Formamidinium lead trihalide: a broadly tunable perovskite for efficient planar heterojunction solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 982	35.4	2706
85	Special issue on terahertz science and technology. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 370301	3	
84	Charge carrier recombination channels in the low-temperature phase of organic-inorganic lead halide perovskite thin films. <i>APL Materials</i> , <b>2014</b> , 2, 081513	5.7	170
83	Electron mobilities approaching bulk limits in "surface-free" GaAs nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 5989-94	11.5	64
82	Charge-carrier dynamics in vapour-deposited films of the organolead halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> . <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2269-2275	35.4	378
81	An ultrafast carbon nanotube terahertz polarisation modulator. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 203108	2.5	25
80	Ultrafast transient terahertz conductivity of monolayer MoS <sub>2</sub> and WSe <sub>2</sub> grown by chemical vapor deposition. <i>ACS Nano</i> , <b>2014</b> , 8, 11147-53	16.7	161
79	Dependence of Dye Regeneration and Charge Collection on the Pore-Filling Fraction in Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 668-677	15.6	27
78	Efficient planar heterojunction perovskite solar cells by vapour deposition. <i>Nature</i> , <b>2013</b> , 501, 395-8	50.4	6183
77	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19850-19858	3.8	18
76	Electronic properties of GaAs, InAs and InP nanowires studied by terahertz spectroscopy. <i>Nanotechnology</i> , <b>2013</b> , 24, 214006	3.4	205
75	Direct observation of charge-carrier heating at WZ-ZB InP nanowire heterojunctions. <i>Nano Letters</i> , <b>2013</b> , 13, 4280-7	11.5	22
74	Strong carrier lifetime enhancement in GaAs nanowires coated with semiconducting polymer. <i>Nano Letters</i> , <b>2012</b> , 12, 6293-301	11.5	52
73	Extreme sensitivity of graphene photoconductivity to environmental gases. <i>Nature Communications</i> , <b>2012</b> , 3, 1228	17.4	94
72	The origin of an efficiency improving "light soaking" effect in SnO <sub>2</sub> based solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9566	35.4	56
71	Ultralow surface recombination velocity in InP nanowires probed by terahertz spectroscopy. <i>Nano Letters</i> , <b>2012</b> , 12, 5325-30	11.5	127
70	Pump-Probe Spectroscopy at Terahertz Frequencies. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 251-271	0.5	1



69	Noncontact measurement of charge carrier lifetime and mobility in GaN nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 4600-4	11.5	51
68	Nanoengineering coaxial carbon nanotube-dual-polymer heterostructures. <i>ACS Nano</i> , <b>2012</b> , 6, 6058-66	16.7	32
67	Ultrafast dynamics of exciton formation in semiconductor nanowires. <i>Small</i> , <b>2012</b> , 8, 1725-31	11	15
66	Introduction to the Special Issue on Photoconductive Emission and Detection of Terahertz Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2012</b> , 33, 391-392	2.2	1
65	Terahertz Properties of Graphene. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2012</b> , 33, 797-815	5.2	59
64	Simulation of fluence-dependent photocurrent in terahertz photoconductive receivers. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 115011	1.8	11
63	All-optical full-color displays using polymer nanofibers. <i>ACS Nano</i> , <b>2011</b> , 5, 2020-5	16.7	38
62	Electron mobility and injection dynamics in mesoporous ZnO, SnO <sub>2</sub> and TiO <sub>2</sub> films used in dye-sensitized solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 5158-66	16.7	602
61	Improved Performance of GaAs-Based Terahertz Emitters via Surface Passivation and Silicon Nitride Encapsulation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 17-21	3.8	23
60	III-V semiconductor nanowires for optoelectronic device applications. <i>Progress in Quantum Electronics</i> , <b>2011</b> , 35, 23-75	9.1	215
59	Ultrafast charge separation at a polymer-single-walled carbon nanotube molecular junction. <i>Nano Letters</i> , <b>2011</b> , 11, 66-72	11.5	76
58	Ultrafast Charge Separation at a Single-walled Carbon Nanotube-Polymer Interface. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1286, 7		
57	Dynamic terahertz polarization in single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	21
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38	Charge trapping in polymer transistors probed by terahertz spectroscopy and scanning probe potentiometry. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 112101	3.4	13
37	Longitudinal electron bunch profile diagnostics at 45 MeV using coherent Smith-Purcell radiation. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2006</b> , 9,		28
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35	Detecting the full polarization state of terahertz transients <b>2006</b> , 6120, 179		3
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32	Polarization-sensitive terahertz detection by multicontact photoconductive receivers. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 254102	3.4	82
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30	Three-dimensional carrier-dynamics simulation of terahertz emission from photoconductive switches. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	69
29	Emission of collimated THz pulses from photo-excited semiconductors. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S449-S451	1.8	17
28	Carrier dynamics in ion-implanted GaAs studied by simulation and observation of terahertz emission. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	46
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20	Simulation of terahertz generation at semiconductor surfaces. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	238
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