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List of Publications by Year in Descending Order

178 papers	10,608 citations	50 h-index	101 g-index
213 ext. papers	11,901 ext. citations	8.1 avg, IF	6.22 L-index

#	Paper	IF	Citations
178	Optical Rashba effect in a light-emitting perovskite metasurface.. *Advanced Materials*, **2022**, e2109157	24	8
177	Perovskite metasurfaces with large superstructural chirality.. *Nature Communications*, **2022**, 13, 1551	17.4	12
176	Topological insulator metamaterial with giant circular photogalvanic effect. *Science Advances*, **2021**, 7,	14.3	3
175	Picosecond Charge Localization Dynamics in CHNHPbI Perovskite Probed by Infrared-Activated Vibrations. *Journal of Physical Chemistry Letters*, **2021**, 12, 4428-4433	6.4	3
174	Co-Evaporated Perovskite Light-Emitting Transistor Operating at Room Temperature. *Advanced Electronic Materials*, **2021**, 7, 2100403	6.4	1
173	Photonic implementation of artificial synapses in ultrafast laser inscribed waveguides in chalcogenide glass. *Applied Physics Letters*, **2021**, 119, 031104	3.4	1
172	Image reconstruction through a multimode fiber with a simple neural network architecture. *Scientific Reports*, **2021**, 11, 896	4.9	10
171	Symmetry perception with spiking neural networks. *Scientific Reports*, **2021**, 11, 5776	4.9	3
170	Synthesis of 5-Azatetracene and Comparison of Its Optical and Electrochemical Properties with Tetracene. *Asian Journal of Organic Chemistry*, **2021**, 10, 2571	3	3
169	Reshaping Hybrid Perovskites Emission with Flexible Polymer Microcavities. *EPJ Web of Conferences*, **2020**, 230, 00006	0.3	
168	Infrared dielectric metamaterials from high refractive index chalcogenides. *Nature Communications*, **2020**, 11, 1692	17.4	22
167	Black GaAs: Gold-Assisted Chemical Etching for Light Trapping and Photon Recycling. *Micromachines*, **2020**, 11,	3.3	3
166	Mixed-Dimensional Naphthylmethylammoinium-Methylammonium Lead Iodide Perovskites with Improved Thermal Stability. *Scientific Reports*, **2020**, 10, 429	4.9	29
165	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. *Joule*, **2020**, 4, 1035-1053	39.8	145
164	Origin of Amplified Spontaneous Emission Degradation in MAPbBr3 Thin Films under Nanosecond-UV Laser Irradiation. *Journal of Physical Chemistry C*, **2020**, 124, 10696-10704	3.8	8
163	Phase stabilization of a coherent fiber network by single-photon counting. *Optics Letters*, **2020**, 45, 2740-2743	3	2
162	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites **2020**, 2, 20-27		15

161	Metamaterial Enhancement of Metal-Halide Perovskite Luminescence. *Nano Letters*, **2020**, 20, 7906-7911	11.5	9
160	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. *Nano Letters*, **2020**, 20, 7964-7972	11.5	5
159	Enhancement of luminescence of quantum emitters in epsilon-near-zero waveguides. *Applied Physics Letters*, **2020**, 117, 181104	3.4	6
158	Designing the Perovskite Structural Landscape for Efficient Blue Emission. *ACS Energy Letters*, **2020**, 5, 1593-1600	20.1	36
157	Femtosecond laser inscription of nonlinear photonic circuits in Gallium Lanthanum Sulphide glass. *JPhys Photonics*, **2019**, 1, 015006	2.5	6
156	White light emission in low-dimensional perovskites. *Journal of Materials Chemistry C*, **2019**, 7, 4956-4969	7.1	99
155	All-polymer methylammonium lead iodide perovskite microcavities. *Nanoscale*, **2019**, 11, 8978-8983	7.7	26
154	The Photophysics of Polythiophene Nanoparticles for Biological Applications. *ChemBioChem*, **2019**, 20, 532-536	3.8	8
153	Solitonic waveguide reflection at an electric interface. *Optics Express*, **2019**, 27, 20273-20281	3.3	2
152	Photoresponsive azobenzene ligand as an efficient electron acceptor for luminous CdTe quantum dots. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 375, 48-53	4.7	9
151	Solution Processed Polymer-ABX4 Perovskite-Like Microcavities. *Applied Sciences (Switzerland)*, **2019**, 9, 5203	2.6	6
150	Coherent perfect absorption of single photons in a fiber network. *Applied Physics Letters*, **2019**, 115, 191101	3.4	2
149	Roadmap on plasmonics. *Journal of Optics (United Kingdom)*, **2018**, 20, 043001	1.7	174
148	All-Optical Reinforcement Learning In Solitonic X-Junctions. *Scientific Reports*, **2018**, 8, 5716	4.9	7
147	Perovskite templating via a bathophenanthroline additive for efficient light-emitting devices. *Journal of Materials Chemistry C*, **2018**, 6, 2295-2302	7.1	11
146	Engineering the Emission of Broadband 2D Perovskites by Polymer Distributed Bragg Reflectors. *ACS Photonics*, **2018**, 5, 867-874	6.3	31
145	Grain Size Modulation and Interfacial Engineering of CH NH PbBr Emitter Films through Incorporation of Tetraethylammonium Bromide. *ChemPhysChem*, **2018**, 19, 1075-1080	3.2	11
144	Additive Selection Strategy for High Performance Perovskite Photovoltaics. *Journal of Physical Chemistry C*, **2018**, 122, 13884-13893	3.8	46

143	Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs via an energy cascade. *Energy and Environmental Science*, **2018**, 11, 1770-1778	35.4	113
142	Optical NP problem solver on laser-written waveguide platform. *Optics Express*, **2018**, 26, 702-710	3.3	11
141	Voltage transient analysis as a generic tool for solar junction characterization. *Journal Physics D: Applied Physics*, **2018**, 51, 345501	3	1
140	A Non-Volatile Chalcogenide Switchable Hyperbolic Metamaterial. *Advanced Optical Materials*, **2018**, 6, 1800332	8.1	14
139	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. *NPG Asia Materials*, **2018**, 10, 533-539	10.3	76
138	Stable biexcitons in two-dimensional metal-halide perovskites with strong dynamic lattice disorder. *Physical Review Materials*, **2018**, 2,	3.2	66
137	Identifying mirror symmetry density with delay in spiking neural networks (Conference Presentation) **2018**,		2
136	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. *APL Materials*, **2018**, 6, 114207	5.7	15
135	Brightness Enhancement in Pulsed-Operated Perovskite Light-Emitting Transistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 37316-37325	9.5	31
134	Carrier density and light helicity dependence of photocurrent in mono- and bilayer graphene. *Semiconductor Science and Technology*, **2018**, 33, 114008	1.8	1
133	Black GaAs by Metal-Assisted Chemical Etching. *ACS Applied Materials & Interfaces*, **2018**, 10, 33434-33440	9.5	15
132	Efficient and Ambient-Air-Stable Solar Cell with Highly Oriented 2D@3D Perovskites. *Advanced Functional Materials*, **2018**, 28, 1801654	15.6	76
131	Nitrogen doped cuprous oxide as low cost hole-transporting material for perovskite solar cells. *Scripta Materialia*, **2018**, 153, 104-108	5.6	13
130	Designing Efficient Energy Funneling Kinetics in Ruddlesden-Popper Perovskites for High-Performance Light-Emitting Diodes. *Advanced Materials*, **2018**, 30, e1800818	24	57
129	Excitonic and Polaronic Properties of 2D Hybrid Organic–Inorganic Perovskites. *ACS Energy Letters*, **2017**, 2, 417-423	20.1	105
128	Novel paradigm for integrated photonics circuits: transient interconnection network **2017**,		4
127	Organometallic Perovskites: Organometallic Perovskite Metasurfaces (Adv. Mater. 9/2017). *Advanced Materials*, **2017**, 29,	24	1
126	Polaron self-localization in white-light emitting hybrid perovskites. *Journal of Materials Chemistry C*, **2017**, 5, 2771-2780	7.1	155

125	Temperature and Electrical Poling Effects on Ionic Motion in MAPbI3 Photovoltaic Cells. *Advanced Energy Materials*, **2017**, 7, 1700265	21.8	19
124	Testbeds for Transition Metal Dichalcogenide Photonics: Efficacy of Light Emission Enhancement in Monomer vs Dimer Nanoscale Antennae. *ACS Photonics*, **2017**, 4, 1713-1721	6.3	20
123	Relaxation lifetimes of plasmonically enhanced hybrid gold-carbon nanotubes systems. *Nanotechnology*, **2017**, 28, 255202	3.4	4
122	High Density Individually Addressable Nanowire Arrays Record Intracellular Activity from Primary Rodent and Human Stem Cell Derived Neurons. *Nano Letters*, **2017**, 17, 2757-2764	11.5	91
121	GaN Schottky Metal–Semiconductor–Metal UV Photodetectors on Si(111) Grown by Ammonia-MBE. *IEEE Sensors Journal*, **2017**, 17, 72-77	4	25
120	Broadband Emission in Two-Dimensional Hybrid Perovskites: The Role of Structural Deformation. *Journal of the American Chemical Society*, **2017**, 139, 39-42	16.4	253
119	Crystal Engineering of a Two-Dimensional Lead-Free Perovskite with Functional Organic Cations by Second-Sphere Coordination. *ChemPlusChem*, **2017**, 82, 671	2.8	1
118	Organometallic Perovskite Metasurfaces. *Advanced Materials*, **2017**, 29, 1604268	24	85
117	Ambipolar charge distribution in donor–acceptor polymer field-effect transistors. *Journal of Materials Chemistry C*, **2017**, 5, 754-762	7.1	11
116	Highly efficient Cs-based perovskite light-emitting diodes enabled by energy funnelling. *Chemical Communications*, **2017**, 53, 12004-12007	5.8	71
115	High-Q plasmonic infrared absorber for sensing of molecular resonances in hybrid lead halide perovskites. *Journal of Applied Physics*, **2017**, 122, 073101	2.5	14
114	Plasmonics of topological insulators at optical frequencies. *NPG Asia Materials*, **2017**, 9, e425-e425	10.3	43
113	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. *Nature Communications*, **2017**, 8, 543	17.4	74
112	Photovoltaics: Temperature and Electrical Poling Effects on Ionic Motion in MAPbI3 Photovoltaic Cells (Adv. Energy Mater. 18/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	1
111	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. *Optical Materials*, **2017**, 72, 626-631	3.3	4
110	Broadband-Emitting 2 D Hybrid Organic-Inorganic Perovskite Based on Cyclohexane-bis(methylamonium) Cation. *ChemSusChem*, **2017**, 10, 3765-3772	8.3	59
109	Unique Reversible Crystal-to-Crystal Phase Transition–Structural and Functional Properties of Fused Ladder Thienoarenes. *Chemistry of Materials*, **2017**, 29, 7686-7696	9.6	6
108	Coherent Perfect Absorption in Metamaterials with Entangled Photons. *ACS Photonics*, **2017**, 4, 2124-2128	8.3	20

107	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs4PbBr6 Nanocrystals. *ACS Energy Letters*, **2017**, 2, 2805-2811	20.1	109
106	Cathodoluminescence of Self-Organized Heterogeneous Phases in Multidimensional Perovskite Thin Films. *Chemistry of Materials*, **2017**, 29, 10088-10094	9.6	21
105	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. *Advanced Optical Materials*, **2017**, 5, 1600768	8.1	44
104	High-Q Plasmonic Fano Resonance for Multiband Surface-Enhanced Infrared Absorption of Molecular Vibrational Sensing. *Advanced Optical Materials*, **2017**, 5, 1600559	8.1	50
103	Crystal Engineering of a Two-Dimensional Lead-Free Perovskite with Functional Organic Cations by Second-Sphere Coordination. *ChemPlusChem*, **2017**, 82, 681-685	2.8	26
102	(Invited) The Dynamics of Nickelidation for Self-Aligned Contacts to InGaAs Channels. *ECS Transactions*, **2017**, 80, 53-69	1	
101	Broadband Tunable Hybrid Photonic Crystal-Nanowire Light Emitter. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-8	3.8	8
100	AC-driven perovskite light-emitting field-effect transistors **2017**,		2
99	Quantum super-oscillation of a single photon. *Light: Science and Applications*, **2016**, 5, e16127	16.7	28
98	X-ray Scintillation in Lead Halide Perovskite Crystals. *Scientific Reports*, **2016**, 6, 37254	4.9	182
97	A fused thieno[3,2-b]thiophene-dithiophene based donor molecule for organic photovoltaics: a structural comparative study with indacenodithiophene. *Journal of Materials Chemistry C*, **2016**, 4, 9656-9663	7.1	4
96	Charge Transport in Organometal Halide Perovskites **2016**, 201-222		6
95	High-Q Whispering-Gallery-Mode-Based Plasmonic Fano Resonances in Coupled Metallic Metasurfaces at Near Infrared Frequencies. *Advanced Optical Materials*, **2016**, 4, 1295-1301	8.1	27
94	Lithography Assisted Fiber-Drawing Nanomanufacturing. *Scientific Reports*, **2016**, 6, 35409	4.9	4
93	Label-Free Vapor Selectivity in Poly(p-Phenylene Oxide) Photonic Crystal Sensors. *ACS Applied Materials & Interfaces*, **2016**, 8, 31941-31950	9.5	74
92	Hot exciton cooling and multiple exciton generation in PbSe quantum dots. *Physical Chemistry Chemical Physics*, **2016**, 18, 31107-31114	3.6	11
91	Coherently Tunable Triangular Trefoil Phaseonium Metamaterial. *Scientific Reports*, **2016**, 6, 21083	4.9	
90	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. *Journal of Physical Chemistry C*, **2016**, 120, 1994-2001	3.8	17

89	Lead-Free MA2CuCl(x)Br(4-x) Hybrid Perovskites. *Inorganic Chemistry*, **2016**, 55, 1044-52	5.1	345
88	Compound Semiconductor Nanowire Photodetectors. *Semiconductors and Semimetals*, **2016**, 94, 75-107	0.6	4
87	Reconfigurable hyperbolic metamaterial with negative refraction **2016**,		2
86	All-Optical Implementation of the Ant Colony Optimization Algorithm. *Scientific Reports*, **2016**, 6, 26283	4.9	7
85	Responsivity drop due to conductance modulation in GaN metal-semiconductor-metal Schottky based UV photodetectors on Si(111). *Semiconductor Science and Technology*, **2016**, 31, 095003	1.8	9
84	Single photon triggered dianion formation in TCNQ and F4TCNQ crystals. *Scientific Reports*, **2016**, 6, 28510	4.9	23
83	Facile synthesis of a hole transporting material with a silafluorene core for efficient mesoscopic CH3NH3PbI3 perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 8750-8754	13	34
82	Enhanced Sb2S3 crystallisation by electric field induced silver doping. *Thin Solid Films*, **2016**, 616, 80-85	2.2	11
81	Independent Tailoring of Super-Radiant and Sub-Radiant Modes in High-Q Plasmonic Fano Resonant Metasurfaces. *Advanced Optical Materials*, **2016**, 4, 1860-1866	8.1	15
80	Polymer Distributed Bragg Reflectors for Vapor Sensing. *ACS Photonics*, **2015**, 2, 537-543	6.3	82
79	Lead iodide perovskite light-emitting field-effect transistor. *Nature Communications*, **2015**, 6, 7383	17.4	551
78	Plasmon-Polaron Coupling in Conjugated Polymer on Infrared Nanoantennas. *Nano Letters*, **2015**, 15, 5382-7	11.5	7
77	Nanowire Lasers. *Nanophotonics*, **2015**, 4, 90-107	6.3	52
76	Dichroic spin-valley photocurrent in monolayer molybdenum disulphide. *Nature Communications*, **2015**, 6, 7636	17.4	98
75	Advanced III–V nanowire growth toward large-scale integration **2015**, 71-124		1
74	Interfacial Charge Transfer Anisotropy in Polycrystalline Lead Iodide Perovskite Films. *Journal of Physical Chemistry Letters*, **2015**, 6, 1396-402	6.4	112
73	Nanoimprint Lithography: Toward Functional Photonic Crystals **2015**, 187-212		2
72	Full Bandwidth Measurement of Supercontinuum Spectral Phase Coherence in Long Pulse Regime. *Fiber and Integrated Optics*, **2015**, 34, 66-75	0.8	1

71	Small-Size Effects on Electron Transfer in P3HT/InP Quantum Dots. *Journal of Physical Chemistry C*, **2015**, 119, 26783-26792	3.8	10
70	Hybrid ZnO:polystyrene nanocomposite for all-polymer photonic crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 158-162		26
69	Microfibers: Amorphous Metal-Sulphide Microfibers Enable Photonic Synapses for Brain-Like Computing (Advanced Optical Materials 5/2015). *Advanced Optical Materials*, **2015**, 3, 634-634	8.1	4
68	Role of edge facets on stability and electronic properties of III-V nanowires. *Nano Convergence*, **2015**, 2,	9.2	3
67	Revising morphology of <111>-oriented silicon and germanium nanowires. *Nano Convergence*, **2015**, 2,	9.2	6
66	Facile Synthesis of a Furan-Arylamine Hole-Transporting Material for High-Efficiency, Mesoscopic Perovskite Solar Cells. *Chemistry - A European Journal*, **2015**, 21, 15113-7	4.8	45
65	Amorphous Metal-Sulphide Microfibers Enable Photonic Synapses for Brain-Like Computing. *Advanced Optical Materials*, **2015**, 3, 635-641	8.1	69
64	Coherent perfect absorption in deeply subwavelength films in the single-photon regime. *Nature Communications*, **2015**, 6, 7031	17.4	114
63	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. *Journal of Physical Chemistry C*, **2015**, 119, 28691-28700	3.8	19
62	Mapping polarons in polymer FETs by charge modulation microscopy in the mid-infrared. *Scientific Reports*, **2014**, 4, 3626	4.9	15
61	GaAs/AlGaAs nanowire photodetector. *Nano Letters*, **2014**, 14, 2688-93	11.5	207
60	Plasmonic nanoclocks. *Nano Letters*, **2014**, 14, 5162-9	11.5	8
59	Optical Properties and Electronic States in Anisotropic Conjugated Polymers: Intra- and Interchain Effects **2014**, 567-588		
58	Ambipolar Charge Photogeneration and Transfer at GaAs/P3HT Heterointerfaces. *Journal of Physical Chemistry Letters*, **2014**, 5, 1144-50	6.4	9
57	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. *Chemical Science*, **2014**, 5, 2702-2709	9.4	160
56	An optical fiber network oracle for NP-complete problems. *Light: Science and Applications*, **2014**, 3, e147-e147		33
55	Plasmonic Nanowire Continuum Light Source **2014**,		1
54	Computing matrix inversion with optical networks. *Optics Express*, **2014**, 22, 295-304	3.3	20

53	Novel Heterogeneous Integration Technology of III/V Layers and InGaAs FinFETs to Silicon. *Advanced Functional Materials*, **2014**, 24, 4420-4426	15.6	14
52	Computing with complex optical networks **2014**,		1
51	Using Nonlinear Optical Networks for Optimization: Primer of the Ant Colony Algorithm **2014**,		1
50	Charge Redistribution at GaAs/P3HT Heterointerfaces with Different Surface Polarity. *Journal of Physical Chemistry Letters*, **2013**, 4, 3303-3309	6.4	20
49	Multiple and Multipolar Fano Resonances in Plasmonic Nanoring Pentamers. *Advanced Optical Materials*, **2013**, 1, 978-983	8.1	17
48	Ultrafast charge carrier dynamics in organic (opto)electronic materials **2013**, 318-355		1
47	Two-photon-induced singlet fission in rubrene single crystal. *Journal of Chemical Physics*, **2013**, 138, 184508	3.9	27
46	Fluorescence from rubrene single crystals: Interplay of singlet fission and energy trapping. *Physical Review B*, **2013**, 87,	3.3	43
45	Hollow core–shell nanostructure supercapacitor electrodes: gap matters. *Energy and Environmental Science*, **2012**, 5, 9085	35.4	169
44	Anisotropic photonic properties of III-V nanowires in the zinc-blende and wurtzite phase. *Nanoscale*, **2012**, 4, 1446-54	7.7	36
43	Rocking chair defect generation in nanowire growth. *Applied Physics Letters*, **2012**, 101, 053121	3.4	5
42	Nanoporous walls on macroporous foam: rational design of electrodes to push areal pseudocapacitance. *Advanced Materials*, **2012**, 24, 4186-90	24	222
41	Monolithic integration of III-V nanowire with photonic crystal microcavity for vertical light emission. *Optics Express*, **2012**, 20, 7758-70	3.3	9
40	Enhancing photocurrent transient spectroscopy by electromagnetic modeling. *Review of Scientific Instruments*, **2012**, 83, 053103	1.7	3
39	Tunable photovoltaic effect and solar cell performance of self-doped perovskite SrTiO3. *AIP Advances*, **2012**, 2, 042131	1.5	28
38	Tailoring the vapor-liquid-solid growth toward the self-assembly of GaAs nanowire junctions. *Nano Letters*, **2011**, 11, 4947-52	11.5	20
37	Nanowire photodetectors. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1430-49	1.3	304
36	Advances in the synthesis of InAs and GaAs nanowires for electronic applications. *Nano Today*, **2009**, 4, 347-358	17.9	53

35	Direct heteroepitaxy of vertical InAs nanowires on Si substrates for broad band photovoltaics and photodetection. *Nano Letters*, **2009**, 9, 2926-34	11.5	261
34	A systematic study on the growth of gaas nanowires by metal-organic chemical vapor deposition. *Nano Letters*, **2008**, 8, 4275-82	11.5	67
33	Heteroepitaxial growth of vertical GaAs nanowires on Si(111) substrates by metal-organic chemical vapor deposition. *Nano Letters*, **2008**, 8, 3755-60	11.5	89
32	Silicon nanowire detectors showing phototransistive gain. *Applied Physics Letters*, **2008**, 93, 121110	3.4	83
31	Planar and vertical Si nanowire photodetectors **2008**,		2
30	Rational synthesis of p-type zinc oxide nanowire arrays using simple chemical vapor deposition. *Nano Letters*, **2007**, 7, 323-8	11.5	405
29	Photoconductivity of a Low-Bandgap Conjugated Polymer. *Advanced Functional Materials*, **2007**, 17, 632-636	15	263
28	Ultrafast Spectroscopic Study of Photoinduced Electron Transfer in an Oligo(thienylenevinylene):Fullerene Composite. *Advanced Functional Materials*, **2007**, 17, 563-568	15.6	45
27	Ultrafast Electron Transfer and Decay Dynamics in a Small Band Gap Bulk Heterojunction Material. *Advanced Materials*, **2007**, 19, 2307-2312	24	192
26	Transport properties of InAs nanowire field effect transistors: The effects of surface states. *Journal of Vacuum Science & Technology B*, **2007**, 25, 1432		67
25	ZnO nanowire UV photodetectors with high internal gain. *Nano Letters*, **2007**, 7, 1003-9	11.5	2127
24	Anisotropic photoluminescence properties of oriented poly(p-phenylene-vinylene) films: Effects of dispersion of optical constants. *Physical Review B*, **2007**, 75,	3.3	33
23	Influence of surface states on the extraction of transport parameters from InAs nanowire field effect transistors. *Applied Physics Letters*, **2007**, 90, 162112	3.4	101
22	Alignment of Liquid Crystalline Polyfluorene Films by an Optically Aligned Polymer Layer. *Japanese Journal of Applied Physics*, **2006**, 45, L33-L35	1.4	3
21	Charge carrier photogeneration and transport properties of a novel low-bandgap conjugated polymer for organic photovoltaics **2006**, 6334, 47		10
20	Mechanism of carrier photogeneration and carrier transport in molecular crystal tetracene. *Physical Review Letters*, **2006**, 97, 067401	7.4	35
19	Method for increasing the photoconductive response in conjugated polymer/fullerene composites. *Applied Physics Letters*, **2006**, 89, 252105	3.4	222
18	Enhanced electron injection in polymer light-emitting diodes: polyhedral oligomeric silsesquioxanes as dilute additives. *Journal Physics D: Applied Physics*, **2006**, 39, 2048-2052	3	15

17	Light emission from an ambipolar semiconducting polymer field-effect transistor **2006**, 6117, 90		2
16	Light emission from an ambipolar semiconducting polymer field-effect transistor. *Applied Physics Letters*, **2005**, 87, 253511	3.4	205
15	Charge-carrier relaxation dynamics in highly ordered poly(p-phenylene vinylene): Effects of carrier bimolecular recombination and trapping. *Physical Review B*, **2005**, 72,	3.3	69
14	Polarized optical and photoluminescence properties of highly oriented poly(p-phenylene-vinylene). *Synthetic Metals*, **2005**, 153, 281-284	3.6	4
13	Effects of bimolecular recombination and charge-trapping on the transient photoconductivity of poly(p-phenylene vinylene). *Synthetic Metals*, **2005**, 153, 145-148	3.6	7
12	Aligned rrP3HT film: Structural order and transport properties. *Synthetic Metals*, **2005**, 155, 639-642	3.6	50
11	Band structure and optical properties of opal photonic crystals. *Physical Review B*, **2005**, 72,	3.3	85
10	Triplet excitons in acyl- and alkyl-substituted polycarbazolyldiacetylenes: A spectroscopical and photophysical study. *Physical Review B*, **2004**, 69,	3.3	5
9	Morphology, band structure, and optical properties of artificial opals **2004**, 5511, 135		4
8	Polarized photoluminescence of highly oriented poly(p-phenylene-vinylene) **2004**,		2
7	Photoinduced absorption spectra in polydiacetylenes for non linear optical applications. *Synthetic Metals*, **2003**, 138, 75-78	3.6	4
6	The photophysics of triplet excitons in substituted polycarbazolyldiacetylenes. *Synthetic Metals*, **2003**, 139, 889-892	3.6	1
5	Morphology and optical properties of bare and polydiacetylenes-infiltrated opals. *Synthetic Metals*, **2003**, 139, 633-636	3.6	4
4	Terahertz generation from poly(p-phenylene vinylene) photoconductive antenna. *Synthetic Metals*, **2003**, 139, 815-817	3.6	12
3	Luminescence from □eSi2 precipitates in Si. II: Origin and nature of the photoluminescence. *Physical Review B*, **2002**, 66,	3.3	86
2	The role of electron photoemission in the ‘photoconductivity’ of semiconducting polymers. *Chemical Physics Letters*, **2001**, 350, 531-536	2.5	31
1	Mechanism of Carrier Photoexcitation in Semiconducting Polymers: The Role of Electron Photoemission in □hotoconductivity□Measurements. *Materials Research Society Symposia Proceedings*, **2001**, 665, 1		1