David S Ginger

List of Publications by Year in Descending Order

205 papers	19,309 citations	71 h-index	136 g-index
219 ext. papers	21,156 ext. citations	12.6 avg, IF	7 L-index

#	Paper	IF	Citations
205	Dimethylammonium Addition to Halide Perovskite Precursor Increases Vertical and Lateral Heterogeneity. *ACS Energy Letters*, **2022**, 7, 204-210	20.1	5
204	Imaging Graphene Moir Superlattices via Scanning Kelvin Probe Microscopy. *Nano Letters*, **2021**, 21, 3280-3286	11.5	3
203	Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. *Journal of Physical Chemistry Letters*, **2021**, 12, 2749-2755	6.4	6
202	Ag Incorporation with Controlled Grain Growth Enables 12.5% Efficient Kesterite Solar Cell with Open Circuit Voltage Reached 64.2% Shockley Queisser Limit. *Advanced Functional Materials*, **2021**, 31, 2101927	15.6	26
201	Reducing Surface Recombination Velocity of Methylammonium-Free Mixed-Cation Mixed-Halide Perovskites via Surface Passivation. *Chemistry of Materials*, **2021**, 33, 5035-5044	9.6	13
200	Sn4+ precursor enables 12.4% efficient kesterite solar cell from DMSO solution with open circuit voltage deficit below 0.30 V. *Science China Materials*, **2021**, 64, 52-60	7.1	37
199	Scanning Kelvin Probe Microscopy Reveals That Ion Motion Varies with Dimensionality in 2D Halide Perovskites. *ACS Energy Letters*, **2021**, 6, 100-108	20.1	13
198	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. *Nature Photonics*, **2021**, 15, 238-244	33.9	111
197	Alignment of Au nanorods along designed protein nanofibers studied with automated image analysis. *Soft Matter*, **2021**, 17, 6109-6115	3.6	3
196	Extraction of Instantaneous Frequencies and Amplitudes in Nonstationary Time-Series Data. *IEEE Access*, **2021**, 9, 83453-83466	3.5	1
195	Tuning Hybrid exciton-Photon Fano Resonances in Two-Dimensional Organic-Inorganic Perovskite Thin Films. *Nano Letters*, **2021**, 21, 6124-6131	11.5	4
194	Importance of Substrate-Particle Repulsion for Protein-Templated Assembly of Metal Nanoparticles. *Langmuir*, **2021**, 37, 9111-9119	4	1
193	Nanowire Architectures Improve Ion Uptake Kinetics in Conjugated Polymer Electrochemical Transistors. *ACS Applied Materials & Interfaces*, **2021**, 13, 34616-34624	9.5	3
192	Dual-Stimuli Responsive Single-Chain Polymer Folding via Intrachain Complexation of Tetramethoxyazobenzene and Cyclodextrin. *Langmuir*, **2021**, 37, 10126-10134	4	0
191	Reversible Electrochemical Charging of n-Type Conjugated Polymer Electrodes in Aqueous Electrolytes. *Journal of the American Chemical Society*, **2021**, 143, 14795-14805	16.4	14
190	Lower limits for non-radiative recombination loss in organic donor/acceptor complexes. *Materials Horizons*, **2021**,	14.4	5
189	Nonlinear photocarrier dynamics and the role of shallow traps in mixed-halide mixed-cation hybrid perovskites. *Journal of Materials Chemistry C*, **2021**, 9, 8204-8212	7.1	3

188	Dilution effect for highly efficient multiple-component organic solar cells. *Nature Nanotechnology*, **2021**,	28.7	16
187	Anisotropic carrier diffusion in single MAPbI3 grains correlates to their twin domains. *Energy and Environmental Science*, **2020**, 13, 4168-4177	35.4	13
186	Generalizable Framework for Algorithmic Interpretation of Thin Film Morphologies in Scanning Probe Images. *Journal of Chemical Information and Modeling*, **2020**, 60, 3387-3397	6.1	5
185	Tin–Lead Alloying for Efficient and Stable All-Inorganic Perovskite Solar Cells. *Chemistry of Materials*, **2020**, 32, 2782-2794	9.6	33
184	A Reversible Structural Phase Transition by Electrochemically-Driven Ion Injection into a Conjugated Polymer. *Journal of the American Chemical Society*, **2020**, 142, 7434-7442	16.4	36
183	Ion Exchange Gels Allow Organic Electrochemical Transistor Operation with Hydrophobic Polymers in Aqueous Solution. *Advanced Materials*, **2020**, 32, e2002610	24	26
182	Significance of Ambient Temperature Control for Highly Reproducible Layered Perovskite Light-Emitting Diodes. *ACS Photonics*, **2020**, 7, 2489-2497	6.3	10
181	Quasi-2D Perovskites: Controlling Spatial Crystallization Uniformity and Phase Orientation of Quasi-2D Perovskite-Based Light-Emitting Diodes Using Lewis Bases (Adv. Mater. Interfaces 2/2020). *Advanced Materials Interfaces*, **2020**, 7, 2070017	4.6	1
180	P-Type Electrochemical Doping Can Occur by Cation Expulsion in a High-Performing Polymer for Organic Electrochemical Transistors **2020**, 2, 254-260		18
179	Suppressing Efficiency Roll-Off at High Current Densities for Ultra-Bright Green Perovskite Light-Emitting Diodes. *ACS Nano*, **2020**, 14, 6076-6086	16.7	70
178	Maximizing the external radiative efficiency of hybrid perovskite solar cells. *Pure and Applied Chemistry*, **2020**, 92, 697-706	2.1	4
177	Controlling Spatial Crystallization Uniformity and Phase Orientation of Quasi-2D Perovskite-Based Light-Emitting Diodes Using Lewis Bases. *Advanced Materials Interfaces*, **2020**, 7, 1901860	4.6	7
176	Highly efficient copper-rich chalcopyrite solar cells from DMF molecular solution. *Nano Energy*, **2020**, 69, 104438	17.1	32
175	Charge-Carrier Recombination in Halide Perovskites. *Chemical Reviews*, **2019**, 119, 11007-11019	68.1	113
174	Defect Tolerance of Conjugated Polymer Crystal Lattices and Their Relevance to Optoelectronic Applications. *ACS Applied Polymer Materials*, **2019**, 1, 1466-1475	4.3	5
173	Time-Resolved Electrical Scanning Probe Microscopy of Layered Perovskites Reveals Spatial Variations in Photoinduced Ionic and Electronic Carrier Motion. *ACS Nano*, **2019**, 13, 2812-2821	16.7	30
172	Fullerene Active Layers for n-Type Organic Electrochemical Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 28138-28144	9.5	38
171	Local Crystal Misorientation Influences Non-radiative Recombination in Halide Perovskites. *Joule*, **2019**, 3, 3048-3060	27.8	99

170	Polymer Crystallinity Controls Water Uptake in Glycol Side-Chain Polymer Organic Electrochemical Transistors. *Journal of the American Chemical Society*, **2019**, 141, 4345-4354	16.4	107
169	Theobromine and direct arylation: a sustainable and scalable solution to minimize aggregation caused quenching. *Green Chemistry*, **2019**, 21, 6600-6605	10	7
168	Noncontact Imaging of Ion Dynamics in Polymer Electrolytes with Time-Resolved Electrostatic Force Microscopy. *ACS Nano*, **2019**, 13, 536-543	16.7	12
167	Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. *ACS Energy Letters*, **2019**, 4, 222-227	20.1	96
166	The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. *Journal of Physical Chemistry Letters*, **2018**, 9, 2062-2069	6.4	57
165	Optical Properties of Reconfigurable Polymer/Silver Nanoprism Hybrids: Tunable Color and Infrared Scattering Contrast. *ACS Applied Materials & Interfaces*, **2018**, 10, 8976-8984	9.5	19
164	Morphological consequences of ligand exchange in quantum dot - Polymer solar cells. *Organic Electronics*, **2018**, 54, 119-125	3.5	8
163	Biexciton Auger Recombination Differs in Hybrid and Inorganic Halide Perovskite Quantum Dots. *Journal of Physical Chemistry Letters*, **2018**, 9, 104-109	6.4	53
162	Hybrid perovskite films approaching the radiative limit with over 90% photoluminescence quantum efficiency. *Nature Photonics*, **2018**, 12, 355-361	33.9	319
161	Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. *ACS Applied Energy Materials*, **2018**, 1, 1534-1539	6.1	40
160	Tuning H- and J-Aggregate Behavior in □Conjugated Polymers via Noncovalent Interactions. *Journal of Physical Chemistry C*, **2018**, 122, 18860-18869	3.8	23
159	Anion-Dependent Doping and Charge Transport in Organic Electrochemical Transistors. *Chemistry of Materials*, **2018**, 30, 5380-5389	9.6	77
158	Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. *Journal of the American Chemical Society*, **2018**, 140, 9996-10008	16.4	61
157	Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. *ACS Energy Letters*, **2018**, 3, 1279-1286	20.1	81
156	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. *ACS Energy Letters*, **2018**, 3, 2086-2093	20.1	180
155	Realization of a Highly Oriented MAPbBr3 Perovskite Thin Film via Ion Exchange for Ultrahigh Color Purity Green Light Emission. *ACS Energy Letters*, **2018**, 3, 1662-1669	20.1	28
154	Plasmonic Nanoparticle Dimers with Reversibly Photoswitchable Interparticle Distances Linked by DNA. *Journal of Physical Chemistry C*, **2018**, 122, 13363-13370	3.8	12
153	Unexpectedly Slow Yet Efficient Picosecond to Nanosecond Photoinduced Hole-Transfer Occurs in a Polymer/Nonfullerene Acceptor Organic Photovoltaic Blend. *ACS Energy Letters*, **2018**, 3, 2396-2403	20.1	49

152	Direct Observation and Quantitative Analysis of Mobile Frenkel Defects in Metal Halide Perovskites Using Scanning Kelvin Probe Microscopy. *Journal of Physical Chemistry C*, **2018**, 122, 12633-12639	3.8	43
151	Identifying Nanoscale Structure-Function Relationships Using Multimodal Atomic Force Microscopy, Dimensionality Reduction, and Regression Techniques. *Journal of Physical Chemistry Letters*, **2018**, 9, 3307-3314	6.4	11
150	Dynamic Optical Switching of Polymer/Plasmonic Nanoparticle Hybrids with Sparse Loading. *Journal of Physical Chemistry B*, **2017**, 121, 1092-1099	3.4	24
149	Temperature-Dependent Photoisomerization Quantum Yields for Azobenzene-Modified DNA. *Journal of Physical Chemistry C*, **2017**, 121, 6997-7004	3.8	15
148	Nanoscience and Nanotechnology Cross Borders. *ACS Nano*, **2017**, 11, 1123-1126	16.7	3
147	B-Site Metal Cation Exchange in Halide Perovskites. *ACS Energy Letters*, **2017**, 2, 1190-1196	20.1	80
146	Correlating Photoluminescence Heterogeneity with Local Electronic Properties in Methylammonium Lead Tribromide Perovskite Thin Films. *Chemistry of Materials*, **2017**, 29, 5484-5492	9.6	34
145	Reversibly Reconfigurable Colloidal Plasmonic Nanomaterials. *Journal of the American Chemical Society*, **2017**, 139, 5266-5276	16.4	59
144	Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn-Enhanced Auger Process. *Journal of Physical Chemistry Letters*, **2017**, 8, 126-130	6.4	13
143	Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial Heterogeneity and Diffusion. *ACS Nano*, **2017**, 11, 11488-11496	16.7	89
142	Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. *Science Advances*, **2017**, 3, e1700106	14.3	443
141	Functional Scanning Probe Imaging of Nanostructured Solar Energy Materials. *Accounts of Chemical Research*, **2016**, 49, 1769-76	24.3	39
140	Photoluminescence Lifetimes Exceeding 8 ﬁs and Quantum Yields Exceeding 30% in Hybrid Perovskite Thin Films by Ligand Passivation. *ACS Energy Letters*, **2016**, 1, 438-444	20.1	361
139	Local Density Fluctuations Predict Photoisomerization Quantum Yield of Azobenzene-Modified DNA. *Journal of Physical Chemistry Letters*, **2016**, 7, 3027-31	6.4	7
138	Efficient perovskite solar cells by metal ion doping. *Energy and Environmental Science*, **2016**, 9, 2892-2901	35.4	301
137	Anticorrelation between Local Photoluminescence and Photocurrent Suggests Variability in Contact to Active Layer in Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 10258-10266	16.7	61
136	Photo-induced halide redistribution in organic-inorganic perovskite films. *Nature Communications*, **2016**, 7, 11683	17.4	621
135	Cantilever Ringdown Dissipation Imaging for the Study of Loss Processes in Polymer/Fullerene Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 12369-12376	3.8	4

134	Electroabsorption Spectroscopy Measurements of the Exciton Binding Energy, Electron□Hole Reduced Effective Mass, and Band Gap in the Perovskite CH3NH3PbI3. *ACS Photonics*, **2016**, 3, 1060-1068	6.3	82
133	Interplay between Interfacial Structures and Device Performance in Organic Solar Cells: A Case Study with the Low Work Function Metal, Calcium. *ACS Applied Materials & Interfaces*, **2016**, 8, 2125-31	9.5	33
132	Photocontrolled DNA Hybridization Stringency with Fluorescence Detection in Heterogeneous Assays. *ACS Sensors*, **2016**, 1, 566-571	9.2	13
131	Design rules for the broad application of fast (. *RSC Advances*, **2016**, 6, 27475-27484	3.7	35
130	Subpicosecond Photon-Energy-Dependent Hole Transfer from PbS Quantum Dots to Conjugated Polymers. *Journal of Physical Chemistry Letters*, **2016**, 7, 5150-5155	6.4	3
129	Fast time-resolved electrostatic force microscopy: Achieving sub-cycle time resolution. *Review of Scientific Instruments*, **2016**, 87, 053702	1.7	37
128	The impact of ultra-thin titania interlayers on open circuit voltage and carrier lifetime in thin film solar cells. *Applied Physics Letters*, **2016**, 108, 113301	3.4	9
127	Classifying Force Spectroscopy of DNA Pulling Measurements Using Supervised and Unsupervised Machine Learning Methods. *Journal of Chemical Information and Modeling*, **2016**, 56, 621-9	6.1	7
126	Phosphonic Acids for Interfacial Engineering of Transparent Conductive Oxides. *Chemical Reviews*, **2016**, 116, 7117-58	68.1	135
125	Dynamic Melting Properties of Photoswitch-Modified DNA: Shearing versus Unzipping. *Journal of Physical Chemistry B*, **2016**, 120, 10706-10713	3.4	8
124	How hybrid perovskites get their groove. *Science*, **2016**, 353, 1365	33.3	5
123	Effect of time and deposition method on quality of phosphonic acid modifier self-assembled monolayers on indium zinc oxide. *Applied Surface Science*, **2016**, 389, 190-198	6.7	13
122	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. *ACS Nano*, **2015**, 9, 9380-93	16.7	366
121	Imaging Charge Transfer State Excitations in Polymer/Fullerene Solar Cells with Time-Resolved Electrostatic Force Microscopy. *Journal of Physical Chemistry Letters*, **2015**, 6, 2852-8	6.4	24
120	Solar cells. Impact of microstructure on local carrier lifetime in perovskite solar cells. *Science*, **2015**, 348, 683-6	33.3	1533
119	Modulation of hybrid organic□erovskite photovoltaic performance by controlling the excited dynamics of fullerenes. *Materials Horizons*, **2015**, 2, 414-419	14.4	22
118	Effects of Ligands on Charge Generation and Recombination in Hybrid Polymer/Quantum Dot Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 24733-24739	3.8	32
117	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. *Chemistry of Materials*, **2015**, 27, 6583-6591	9.6	37

116	Lithium-doping inverts the nanoscale electric field at the grain boundaries in Cu2ZnSn(S,Se)4 and increases photovoltaic efficiency. *Physical Chemistry Chemical Physics*, **2015**, 17, 23859-66	3.6	150
115	Photodecomposition and Morphology Evolution of Organometal Halide Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 20810-20816	3.8	83
114	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 10030	17.4	492
113	High-performance and environmentally stable planar heterojunction perovskite solar cells based on a solution-processed copper-doped nickel oxide hole-transporting layer. *Advanced Materials*, **2015**, 27, 695-701	24	655
112	Faster Time-Resolved Electrostatic Force Microscopy. *Microscopy and Microanalysis*, **2015**, 21, 2349-2350	0.5	1
111	Zr Incorporation into TiO2 Electrodes Reduces Hysteresis and Improves Performance in Hybrid Perovskite Solar Cells while Increasing Carrier Lifetimes. *Journal of Physical Chemistry Letters*, **2015**, 6, 669-75	6.4	91
110	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. *Advanced Energy Materials*, **2014**, 4, 1400206	21.8	106
109	High-Dielectric Constant Side-Chain Polymers Show Reduced Non-Geminate Recombination in Heterojunction Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1301857	21.8	93
108	Nanoscale surface potential variation correlates with local S/Se ratio in solution-processed CZTSSe solar cells. *Nano Letters*, **2014**, 14, 6926-30	11.5	23
107	How disorder controls the kinetics of triplet charge recombination in semiconducting organic polymer photovoltaics. *Physical Chemistry Chemical Physics*, **2014**, 16, 20321-8	3.6	31
106	Size-Dependent Charge Transfer Yields in Conjugated Polymer/Quantum Dot Blends. *Journal of Physical Chemistry C*, **2014**, 118, 5710-5715	3.8	23
105	Intensity-modulated scanning Kelvin probe microscopy for probing recombination in organic photovoltaics. *ACS Nano*, **2014**, 8, 10799-807	16.7	50
104	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. *Advanced Materials*, **2014**, 26, 6262-7	24	198
103	Edge-Gold-Coated Silver Nanoprisms: Enhanced Stability and Applications in Organic Photovoltaics and Chemical Sensing. *Journal of Physical Chemistry C*, **2014**, 118, 12459-12468	3.8	45
102	Hot Hole Transfer Increasing Polaron Yields in Hybrid Conjugated Polymer/PbS Blends. *Journal of Physical Chemistry Letters*, **2014**, 5, 208-11	6.4	22
101	Performance limits of plasmon-enhanced organic photovoltaics. *Applied Physics Letters*, **2014**, 105, 033304	3.4	16
100	Dynamic force spectroscopy of photoswitch-modified DNA. *ACS Nano*, **2014**, 8, 2625-31	16.7	14
99	Direct Measurement of Acceptor Group Localization on Donor–Acceptor Polymers Using Resonant Auger Spectroscopy. *Journal of Physical Chemistry C*, **2014**, 118, 5570-5578	3.8	12

98	Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymer-Fullerene Solar Cells While Electron Transfer Remains Active. *Advanced Functional Materials*, **2013**, 23, 1238-1249	15.6	100
97	The role of spin in the kinetic control of recombination in organic photovoltaics. *Nature*, **2013**, 500, 435-9	30.4	379
96	ITO Interface Modifiers Can Improve VOC in Polymer Solar Cells and Suppress Surface Recombination. *Journal of Physical Chemistry Letters*, **2013**, 4, 4038-4044	6.4	73
95	Competing Effects of Fluorination on the Orientation of Aromatic and Aliphatic Phosphonic Acid Monolayers on Indium Tin Oxide. *Journal of Physical Chemistry C*, **2013**, 117, 15139-15147	3.8	36
94	Hole Transfer from Low Band Gap Quantum Dots to Conjugated Polymers in Organic/Inorganic Hybrid Photovoltaics. *Journal of Physical Chemistry Letters*, **2013**, 4, 280-4	6.4	38
93	Orientation of phenylphosphonic acid self-assembled monolayers on a transparent conductive oxide: a combined NEXAFS, PM-IRRAS, and DFT study. *Langmuir*, **2013**, 29, 2166-74	4	52
92	Charge generation and energy transfer in hybrid polymer/infrared quantum dot solar cells. *Energy and Environmental Science*, **2013**, 6, 769	35.4	46
91	A one pot organic/CdSe nanoparticle hybrid material synthesis with in situ Ɛconjugated ligand functionalization. *Chemical Communications*, **2013**, 49, 1321-3	5.8	15
90	Morphology-dependent trap formation in bulk heterojunction photodiodes. *Journal of Physical Chemistry B*, **2013**, 117, 4654-60	3.4	21
89	Photoisomerization quantum yield of azobenzene-modified DNA depends on local sequence. *Journal of the American Chemical Society*, **2013**, 135, 8382-7	16.4	40
88	Mapping nanoscale variations in photochemical damage of polymer/fullerene solar cells with dissipation imaging. *ACS Nano*, **2013**, 7, 10405-13	16.7	18
87	Spatially modulating interfacial properties of transparent conductive oxides: patterning work function with phosphonic Acid self-assembled monolayers. *Advanced Materials*, **2012**, 24, 642-6	24	48
86	Patterning: Spatially Modulating Interfacial Properties of Transparent Conductive Oxides: Patterning Work Function with Phosphonic Acid Self-Assembled Monolayers (Adv. Mater. 5/2012). *Advanced Materials*, **2012**, 24, 570-570	24	2
85	Polymer triplet energy levels need not limit photocurrent collection in organic solar cells. *Journal of the American Chemical Society*, **2012**, 134, 19661-8	16.4	56
84	Halogen-free solvent processing for sustainable development of high efficiency organic solar cells. *Organic Electronics*, **2012**, 13, 2870-2878	3.5	80
83	Electron-Transfer Processes in Zinc Phthalocyanine-Phosphonic Acid Monolayers on ITO: Characterization of Orientation and Charge-Transfer Kinetics by Waveguide Spectroelectrochemistry. *Journal of Physical Chemistry Letters*, **2012**, 3, 1154-8	6.4	28
82	Submicrosecond time resolution atomic force microscopy for probing nanoscale dynamics. *Nano Letters*, **2012**, 12, 893-8	11.5	73
81	Electron accumulation on metal nanoparticles in plasmon-enhanced organic solar cells. *ACS Nano*, **2012**, 6, 10024-32	16.7	92

80	Built-In Potential in Conjugated Polymer Diodes with Changing Anode Work Function: Interfacial States and Deviation from the Schottky-Mott Limit. *Journal of Physical Chemistry Letters*, **2012**, 3, 1202-7	6.4	42
79	Photoswitchable oligonucleotide-modified gold nanoparticles: controlling hybridization stringency with photon dose. *Nano Letters*, **2012**, 12, 2530-6	11.5	85
78	Scanning probes for new energy materials: Probing local structure and function. *MRS Bulletin*, **2012**, 37, 633-637	3.2	20
77	Quantum dot/plasmonic nanoparticle metachromophores with quantum yields that vary with excitation wavelength. *Nano Letters*, **2011**, 11, 2725-30	11.5	52
76	Photoinduced Charge Transfer and Polaron Dynamics in Polymer and Hybrid Photovoltaic Thin Films: Organic vs Inorganic Acceptors. *Journal of Physical Chemistry C*, **2011**, 115, 24403-24410	3.8	71
75	Plasmonic Enhancement of Raman Scattering from the Organic Solar Cell Material P3HT/PCBM by Triangular Silver Nanoprisms. *Journal of Physical Chemistry C*, **2011**, 115, 20788-20794	3.8	60
74	Nanotechnology for Sustainability: Energy Conversion, Storage, and Conservation **2011**, 261-303		12
73	Controlling vertical morphology within the active layer of organic photovoltaics using poly(3-hexylthiophene) nanowires and phenyl-C61-butyric acid methyl ester. *ACS Nano*, **2011**, 5, 3132-40	16.7	59
72	Optical detection of protein in complex media with plasmonic nanoparticle dimers. *Small*, **2011**, 7, 1993-7	11	37
71	Special issue dedicated to Chad Mirkin: 20 years of influential research. *Small*, **2011**, 7, 1851	11	
70	Surface characterization of polythiophene:fullerene blends on different electrodes using near edge X-ray absorption fine structure. *ACS Applied Materials & Interfaces*, **2011**, 3, 726-32	9.5	37
69	Enabling and Investigative Tools: Measuring Methods, Instruments, and Metrology **2011**, 71-107		1
68	Nanostructure determines the intensity-dependence of open-circuit voltage in plastic solar cells. *Journal of Applied Physics*, **2010**, 108, 084320	2.5	19
67	Plasmonic nanoparticle dimers for optical sensing of DNA in complex media. *Journal of the American Chemical Society*, **2010**, 132, 9600-1	16.4	169
66	Spectral control of plasmonic emission enhancement from quantum dots near single silver nanoprisms. *Nano Letters*, **2010**, 10, 2598-603	11.5	208
65	Importance of Spectral Overlap: Fluorescence Enhancement by Single Metal Nanoparticles **2010**, 91-118		3
64	Imaging Local Trap Formation in Conjugated Polymer Solar Cells: A Comparison of Time-Resolved Electrostatic Force Microscopy and Scanning Kelvin Probe Imaging *Journal of Physical Chemistry C*, **2010**, 114, 20672-20677	3.8	47
63	Polymer nanowire/fullerene bulk heterojunction solar cells: how nanostructure determines photovoltaic properties. *ACS Nano*, **2010**, 4, 1861-72	16.7	168

62	Concerted emission and local potentiometry of light-emitting electrochemical cells. *ACS Nano*, **2010**, 4, 2673-80	16.7	75
61	Plasmon-enhanced charge carrier generation in organic photovoltaic films using silver nanoprisms. *Nano Letters*, **2010**, 10, 1501-5	11.5	340
60	Broadband absorbing bulk heterojunction photovoltaics using low-bandgap solution-processed quantum dots. *Nano Letters*, **2010**, 10, 2635-9	11.5	118
59	Heterogeneity in polymer solar cells: local morphology and performance in organic photovoltaics studied with scanning probe microscopy. *Accounts of Chemical Research*, **2010**, 43, 612-20	24.3	179
58	Characterizing Morphology in Bulk Heterojunction Organic Photovoltaic Systems. *Journal of Physical Chemistry Letters*, **2010**, 1, 1160-1169	6.4	119
57	Cooperative Near-Field Surface Plasmon Enhanced Quantum Dot Nanoarrays. *Advanced Functional Materials*, **2010**, 20, 2675-2682	15.6	24
56	New SPM techniques for analyzing OPV materials. *Materials Today*, **2010**, 13, 50-56	21.8	28
55	Electrical Scanning Probe Microscopy on Active Organic Electronic Devices. *Advanced Materials*, **2009**, 21, 19-28	24	175
54	Nanopatterning peptides as bifunctional inks for templated assembly. *Small*, **2009**, 5, 689-93	11	27
53	The role of mesoscopic PCBM crystallites in solvent vapor annealed copolymer solar cells. *ACS Nano* , **2009**, 3, 627-36	16.7	131
52	Imaging the evolution of nanoscale photocurrent collection and transport networks during annealing of polythiophene/fullerene solar cells. *Nano Letters*, **2009**, 9, 2946-52	11.5	101
51	Phase transfer of large anisotropic plasmon resonant silver nanoparticles from aqueous to organic solution. *Langmuir*, **2009**, 25, 7932-9	4	27
50	Doping for speed: colloidal nanoparticles for thin-film optoelectronics. *ACS Nano*, **2009**, 3, 261-5	16.7	27
49	Absence of photoinduced charge transfer in blends of PbSe quantum dots and conjugated polymers. *ACS Nano*, **2009**, 3, 1345-52	16.7	70
48	Space charge limited current measurements on conjugated polymer films using conductive atomic force microscopy. *Nano Letters*, **2008**, 8, 1602-9	11.5	181
47	Photoluminescence quenching of single CdSe nanocrystals by ligand adsorption. *Nano Letters*, **2008** , 8, 2585-90	11.5	97
46	The Changing Face of PEDOT:PSS Films: Substrate, Bias, and Processing Effects on Vertical Charge Transport *Journal of Physical Chemistry C*, **2008**, 112, 7922-7927	3.8	164
45	Controlling film morphology in conjugated polymer:fullerene blends with surface patterning. *Journal of the American Chemical Society*, **2008**, 130, 15916-26	16.4	60

44	Excitation enhancement of CdSe quantum dots by single metal nanoparticles. *Applied Physics Letters*, **2008**, 93, 053106	3.4	114
43	Bioenabled Nanophotonics. *MRS Bulletin*, **2008**, 33, 536-542	3.2	11
42	Synthesis and Optical Properties of Cubic Gold Nanoframes. *Nano Research*, **2008**, 1, 441-449	10	128
41	Colloidal CdSe quantum dot electroluminescence: ligands and light-emitting diodes. *Mikrochimica Acta*, **2008**, 160, 345-350	5.8	31
40	Peptide-mediated surface-immobilized quantum dot hybrid nanoassemblies with controlled photoluminescence. *Journal of Materials Chemistry*, **2007**, 17, 866-872		25
39	Scanning Kelvin probe imaging of the potential profiles in fixed and dynamic planar LECs. *Journal of the American Chemical Society*, **2007**, 129, 15903-10	16.4	88
38	Quantitative Study of the Effects of Surface Ligand Concentration on CdSe Nanocrystal Photoluminescence. *Journal of Physical Chemistry C*, **2007**, 111, 6220-6227	3.8	226
37	Synthesis and optical properties of silver nanobars and nanorice. *Nano Letters*, **2007**, 7, 1032-6	11.5	545
36	Mapping local photocurrents in polymer/fullerene solar cells with photoconductive atomic force microscopy. *Nano Letters*, **2007**, 7, 738-44	11.5	256
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