

Jenny Nelson

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.

349
papers

36,753
citations

101
h-index

184
g-index

386
ext. papers

40,148
ext. citations

10.6
avg, IF

7.48
L-index

#	Paper	IF	Citations
349	Reconciling models of interfacial state kinetics and device performance in organic solar cells: impact of the energy offsets on the power conversion efficiency.. <i>Energy and Environmental Science</i> , 2022 , 15, 1256-1270	35.4	5
348	The Role of Long-Alkyl-Group Spacers in Glycolated Copolymers for High Performance Organic Electrochemical Transistors.. <i>Advanced Materials</i> , 2022 , e2202574	24	2
347	Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology.. <i>Nature Materials</i> , 2022 ,	27	157
346	High Power Irradiance Dependence of Charge Species Dynamics in Hybrid Perovskites and Kinetic Evidence for Transient Vibrational Stark Effect in Formamidinium. <i>Nanomaterials</i> , 2022 , 12, 1616	5.4	
345	Emissive Charge-Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Non-Radiative Recombination and High-Performance Photodetectors. <i>Advanced Materials</i> , 2021 , e2104654	24	3
344	Influence of static disorder of charge transfer state on voltage loss in organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3642	17.4	13
343	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar π Systems. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18073-18081	16.4	13
342	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021 , 11, 2002774	21.8	56
341	A History and Perspective of Non-Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003570	21.8	141
340	A Family of Superhelicenes: Easily Tunable, Chiral Nanographenes by Merging Helicity with Planar π Systems. <i>Angewandte Chemie</i> , 2021 , 133, 18221-18229	3.6	3
339	Computational Screening of Chiral Organic Semiconductors: Exploring Side-Group Functionalization and Assembly to Optimize Charge Transport. <i>Crystal Growth and Design</i> , 2021 , 21, 5036-5049	3.5	2
338	Reversible Electrochemical Charging of n-Type Conjugated Polymer Electrodes in Aqueous Electrolytes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14795-14805	16.4	14
337	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003002	21.8	59
336	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. <i>Energy and Environmental Science</i> , 2020 , 13, 1843-1855	35.4	51
335	The Effect of the Dielectric Environment on Electron Transfer Reactions at the Interfaces of Molecular Sensitized Semiconductors in Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6979-6992	3.8	4
334	Overcoming the Limitations of Transient Photovoltage Measurements for Studying Recombination in Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900581	7.1	14
333	Assessing the feasibility of carbon dioxide mitigation options in terms of energy usage. <i>Nature Energy</i> , 2020 , 5, 720-728	62.3	24

332	Energetic Control of Redox-Active Polymers toward Safe Organic Bioelectronic Materials. <i>Advanced Materials</i> , 2020 , 32, e1908047	24	65
331	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903248	21.8	18
330	How solar cell efficiency is governed by the Φ product. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
329	Tunable Control of the Hydrophilicity and Wettability of Conjugated Polymers by a Postpolymerization Modification Approach. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000087	5.5	3
328	Ring fusion in tetrathienylethene cored perylene diimide tetramers affords acceptors with strong and broad absorption in the near-UV to visible region. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17237-17244	7.1	6
327	Relationship between Fill Factor and Light Intensity in Solar Cells Based on Organic Disordered Semiconductors: The Role of Tail States. <i>Physical Review Applied</i> , 2020 , 14,	4.3	15
326	Structure Dependence of Kinetic and Thermodynamic Parameters in Singlet Fission Processes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9557-9565	6.4	1
325	Correlating the Phase Behavior with the Device Performance in Binary Poly-3-hexylthiophene: Nonfullerene Acceptor Blend Using Optical Probes of the Microstructure. <i>Chemistry of Materials</i> , 2020 , 32, 8294-8305	9.6	13
324	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the Φ phase in Poly(9,9-dioctylfluorene). <i>Physical Review X</i> , 2019 , 9,	9.1	10
323	The Importance of Microstructure in Determining Polaron Generation Yield in Poly(9,9-dioctylfluorene). <i>Chemistry of Materials</i> , 2019 , 31, 6787-6797	9.6	9
322	Analysis of the Voltage Losses in CZTSSe Solar Cells of Varying Sn Content. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2829-2835	6.4	26
321	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6362-6374	16.4	188
320	Factors Controlling Open-Circuit Voltage Losses in Organic Solar Cells. <i>Trends in Chemistry</i> , 2019 , 1, 49-62	4.8	82
319	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. <i>Energy and Environmental Science</i> , 2019 , 12, 1296-1308	35.4	102
318	Tuning the ambipolar behaviour of organic field effect transistors via band engineering. <i>AIP Advances</i> , 2019 , 9, 035202	1.5	13
317	Design and evaluation of conjugated polymers with polar side chains as electrode materials for electrochemical energy storage in aqueous electrolytes. <i>Energy and Environmental Science</i> , 2019 , 12, 1349-1357	35.4	74
316	Identifying Dominant Recombination Mechanisms in Perovskite Solar Cells by Measuring the Transient Ideality Factor. <i>Physical Review Applied</i> , 2019 , 11,	4.3	63
315	The influence of nitrogen position on charge carrier mobility in enantiopure aza[6]helicene crystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5059-5067	3.6	8

314	Spectroscopic Investigation of the Effect of Microstructure and Energetic Offset on the Nature of Interfacial Charge Transfer States in Polymer: Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4634-4643	16.4	26
313	Predicting synthesizability. <i>Journal Physics D: Applied Physics</i> , 2019 , 52,	3	161
312	Impact of Marginal Exciton Charge-Transfer State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2096-2103	20.1	14
311	Symmetry based molecular design for triplet excitation and optical spin injection. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19521-19528	3.6	1
310	Energy materials for a low carbon future. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20190219	3	1
309	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. <i>Chemistry of Materials</i> , 2019 , 31, 9635-9651	9.6	8
308	Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors. <i>Nature Communications</i> , 2019 , 10, 5538	17.4	25
307	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2018 , 30, 2945-2953	9.6	124
306	Charge Transport in Spiro-OMeTAD Investigated through Space-Charge-Limited Current Measurements. <i>Physical Review Applied</i> , 2018 , 9,	4.3	33
305	Exploring the validity and limitations of the Mott-Gurney law for charge-carrier mobility determination of semiconducting thin-films. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 105901	1.8	58
304	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. <i>Nanoscale</i> , 2018 , 10, 1865-1876	7.7	32
303	An Alkylated Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , 2018 , 30, 1705209	24	399
302	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 417-428	35.4	79
301	Organic Solar Cells 2018 , 567-597		3
300	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 4968	17.4	153
299	Impact of Molecular Order on Polaron Formation in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29129-29140	3.8	18
298	Polaron States in Fullerene Adducts Modeled by Coarse-Grained Molecular Dynamics and Tight Binding. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6616-6623	6.4	6
297	Nonradiative Energy Losses in Bulk-Heterojunction Organic Photovoltaics. <i>Physical Review X</i> , 2018 , 8,	9.1	36

296	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801001	21.8	72
295	P-type semiconductor surfactant modified zinc oxide nanorods for hybrid bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 608-616	6.4	15
294	Simultaneous topographical, electrical and optical microscopy of optoelectronic devices at the nanoscale. <i>Nanoscale</i> , 2017 , 9, 2723-2731	7.7	14
293	Influence of orientation mismatch on charge transport across grain boundaries in tri-isopropylsilylethynyl (TIPS) pentacene thin films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10854-10862 ²¹	3.6	13
292	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. <i>Synthetic Metals</i> , 2017 , 226, 25-30	3.6	13
291	Controlling recombination kinetics of hybrid poly-3-hexylthiophene (P3HT)/titanium dioxide solar cells by self-assembled monolayers. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4732-4737	2.1	11
290	Transient Optoelectronic Analysis of the Impact of Material Energetics and Recombination Kinetics on the Open-Circuit Voltage of Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13496-13506	3.8	56
289	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22739-22747	9.5	20
288	Influence of the Hole Transporting Layer on the Thermal Stability of Inverted Organic Photovoltaics Using Accelerated-Heat Lifetime Protocols. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14136-14144	9.5	33
287	On the correct interpretation of the low voltage regime in intrinsic single-carrier devices. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 205901	1.8	24
286	Enhancement of hole mobility in hybrid titanium dioxide/poly(3-hexylthiophene) nanocomposites by employing an oligothiophene dye as an interface modifier. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11758-11762	7.1	10
285	Quantitative Analysis of the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9073-9080	3.4	18
284	Organic semiconductors: A map to find winners. <i>Nature Materials</i> , 2017 , 16, 969-970	27	1
283	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. <i>ACS Nano</i> , 2017 , 11, 8329-8338	16.7	90
282	Quantifying local thickness and composition in thin films of organic photovoltaic blends by Raman scattering. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7270-7282	7.1	15
281	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. <i>Nano Letters</i> , 2017 , 17, 5891-5896	11.5	58
280	The impact of chemical structure and molecular packing on the electronic polarisation of fullerene arrays. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18709-18720	3.6	5
279	Reducing the efficiency-stability-cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. <i>Nature Materials</i> , 2017 , 16, 363-369	27	807

278	Experimental and theoretical optical properties of methylammonium lead halide perovskites. <i>Nanoscale</i> , 2016 , 8, 6317-27	7.7	287
277	Ultrafast decoherence dynamics govern photocarrier generation efficiencies in polymer solar cells. <i>Scientific Reports</i> , 2016 , 6, 29437	4.9	44
276	The environmental impact of lightweight HCPV modules: efficient design and effective deployment. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 1458-1472	6.8	9
275	Reciprocity between Charge Injection and Extraction and Its Influence on the Interpretation of Electroluminescence Spectra in Organic Solar Cells. <i>Physical Review Applied</i> , 2016 , 5,	4.3	30
274	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. <i>Chemistry of Materials</i> , 2016 , 28, 8366-8378	9.6	45
273	How mobile are dye adsorbates and acetonitrile molecules on the surface of TiO nanoparticles? A quasi-elastic neutron scattering study. <i>Scientific Reports</i> , 2016 , 6, 39253	4.9	5
272	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 302-308	20.1	52
271	In-situ, long-term operational stability of organic photovoltaics for off-grid applications in Africa. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 284-293	6.4	40
270	What does CPV need to achieve in order to succeed? 2016 ,		12
269	Evidence for ion migration in hybrid perovskite solar cells with minimal hysteresis. <i>Nature Communications</i> , 2016 , 7, 13831	17.4	477
268	Exploring the origin of high optical absorption in conjugated polymers. <i>Nature Materials</i> , 2016 , 15, 746-537		233
267	New Insights into the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction: A Time-of-Flight Quasi-Elastic Neutron Scattering Study. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2252-7	6.4	16
266	Interdye Hole Transport Accelerates Recombination in Dye Sensitized Mesoporous Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13197-13206	16.4	27
265	The Role of Hole Transport between Dyes in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18975-18985	3.8	32
264	Polaron pair mediated triplet generation in polymer/fullerene blends. <i>Nature Communications</i> , 2015 , 6, 6501	17.4	65
263	Reversible Hydration of CH ₃ NH ₃ PbI ₃ in Films, Single Crystals, and Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 3397-3407	9.6	888
262	Temperature-Dependent Dynamics of Polyalkylthiophene Conjugated Polymers: A Combined Neutron Scattering and Simulation Study. <i>Chemistry of Materials</i> , 2015 , 27, 7652-7661	9.6	20
261	Influence of Intermolecular Interactions on the Reorganization Energy of Charge Transfer between Surface-Attached Dye Molecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24337-24341	3.8	13

260	Dye monolayers used as the hole transporting medium in dye-sensitized solar cells. <i>Advanced Materials</i> , 2015 , 27, 5889-94	24	18
259	Role of Polymer Fractionation in Energetic Losses and Charge Carrier Lifetimes of Polymer: Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19668-19673	3.8	21
258	Polymer/Nanocrystal Hybrid Solar Cells: Influence of Molecular Precursor Design on Film Nanomorphology, Charge Generation and Device Performance. <i>Advanced Functional Materials</i> , 2015 , 25, 409-420	15.6	40
257	Models of charge pair generation in organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2311-2325	3.6	135
256	Quantifying Losses in Open-Circuit Voltage in Solution-Processable Solar Cells. <i>Physical Review Applied</i> , 2015 , 4,	4.3	373
255	Understanding the Effect of Unintentional Doping on Transport Optimization and Analysis in Efficient Organic Bulk-Heterojunction Solar Cells. <i>Physical Review X</i> , 2015 , 5,	9.1	13
254	The dynamics of methylammonium ions in hybrid organic-inorganic perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7124	17.4	446
253	Influence of Surface Recombination on Charge-Carrier Kinetics in Organic Bulk Heterojunction Solar Cells with Nickel Oxide Interlayers. <i>Physical Review Applied</i> , 2015 , 4,	4.3	70
252	Influence of a nearby substrate on the reorganization energy of hole exchange between dye molecules. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7345-54	3.6	11
251	Fullerene oxidation and clustering in solution induced by light. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 24-30	9.3	32
250	Distinguishing the influence of structural and energetic disorder on electron transport in fullerene multi-adducts. <i>Materials Horizons</i> , 2015 , 2, 113-119	14.4	42
249	Organic photovoltaic greenhouses: a unique application for semi-transparent PV?. <i>Energy and Environmental Science</i> , 2015 , 8, 1317-1328	35.4	159
248	4H-1,2,6-Thiadiazin-4-one-containing small molecule donors and additive effects on their performance in solution-processed organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2358-2365	7.1	26
247	A rhodanine flanked nonfullerene acceptor for solution-processed organic photovoltaics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 898-904	16.4	407
246	Solution-processed mesoscopic Bi ₂ O ₃ polymer photoactive layers. <i>ChemPhysChem</i> , 2014 , 15, 1019-23	3.2	26
245	Fluorene-based cathode interlayer polymers for high performance solution processed organic optoelectronic devices. <i>Organic Electronics</i> , 2014 , 15, 1244-1253	3.5	32
244	Electron Collection as a Limit to Polymer:PCBM Solar Cell Efficiency: Effect of Blend Microstructure on Carrier Mobility and Device Performance in PTB7:PCBM. <i>Advanced Energy Materials</i> , 2014 , 4, 1400311	21.8	139
243	The reorganization energy of intermolecular hole hopping between dyes anchored to surfaces. <i>Chemical Science</i> , 2014 , 5, 281-290	9.4	54

242	Influence of Bridging Atom and Side Chains on the Structure and Crystallinity of CyclopentadithiopheneBenzothiadiazole Polymers. <i>Chemistry of Materials</i> , 2014 , 26, 1226-1233	9.6	48
241	Charge mobility anisotropy of functionalized pentacenes in organic field effect transistors fabricated by solution processing. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10110-10115	7.1	31
240	Improved electronic coupling in hybrid organic-inorganic nanocomposites employing thiol-functionalized P3HT and bismuth sulfide nanocrystals. <i>Nanoscale</i> , 2014 , 6, 10018-26	7.7	20
239	Carrier motion in as-spun and annealed P3HT:PCBM blends revealed by ultrafast optical electric field probing and Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2686-92	3.6	24
238	Dynamic carbon mitigation analysis: the role of thin-film photovoltaics. <i>Energy and Environmental Science</i> , 2014 , 7, 1810-1818	35.4	13
237	A general mechanism for controlling thin film structures in all-conjugated block copolymer:fullerene blends. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14711-14719	13	13
236	Influence of Chemical Structure on the Charge Transfer State Spectrum of a Polymer:Fullerene Complex. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8253-8261	3.8	56
235	Spectroscopic Evaluation of Mixing and Crystallinity of Fullerenes in Bulk Heterojunctions. <i>Advanced Functional Materials</i> , 2014 , 24, 6972-6980	15.6	25
234	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 281-290	6.4	22
233	Understanding the Apparent Charge Density Dependence of Mobility and Lifetime in Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8837-8842	3.8	56
232	Determination and Control of Microstructure in Organic Photovoltaic Devices 2014 , 827-860		
231	In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22858-22864	3.8	15
230	Effect of Molecular Fluctuations on Hole Diffusion within Dye Monolayers. <i>Chemistry of Materials</i> , 2014 , 26, 4731-4740	9.6	20
229	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. <i>Physical Review B</i> , 2014 , 89,	3.3	10
228	Device modelling of organic bulk heterojunction solar cells. <i>Topics in Current Chemistry</i> , 2014 , 352, 279-324		14
227	QUANTUM WELL SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2014 , 453-489		1
226	Parameter free calculation of the subgap density of states in poly(3-hexylthiophene). <i>Faraday Discussions</i> , 2014 , 174, 255-66	3.6	28
225	Photocurrent enhancement from diketopyrrolopyrrole polymer solar cells through alkyl-chain branching point manipulation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11537-40	16.4	248

224	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , 2013 , 4, 2334	17.4	140
223	Controlling microstructure of pentacene derivatives by solution processing: impact of structural anisotropy on optoelectronic properties. <i>ACS Nano</i> , 2013 , 7, 7983-91	16.7	73
222	Paper No 19.2: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 282-284	0.5	
221	Determining the Exciton Diffusion Length in a Polyfluorene from Ultrafast Fluorescence Measurements of Polymer/Fullerene Blend Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19832-19838 ⁸	38	39
220	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 4239-4249	9.6	50
219	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductors poly(3-hexylthiophene), a model study. <i>Progress in Polymer Science</i> , 2013 , 38, 1978-1989 ^{29.6}	219	
218	Understanding the Effect of Donor Layer Thickness and a MoO ₃ Hole Transport Layer on the Open-Circuit Voltage in Squaraine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19866-19874	3.8	24
217	Paper No P33: Large-Area Printed Transparent Electrodes for Flexible Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 112-114	0.5	
216	Factors limiting device efficiency in organic photovoltaics. <i>Advanced Materials</i> , 2013 , 25, 1847-58	24	489
215	Limits on the Fill Factor in Organic Photovoltaics: Distinguishing Nongeminate and Geminate Recombination Mechanisms. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 803-8	6.4	91
214	Influence of doping on charge carrier collection in normal and inverted geometry polymer:fullerene solar cells. <i>Scientific Reports</i> , 2013 , 3,	4.9	57
213	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 718-723	21.8	87
212	Novel BODIPY-based conjugated polymers donors for organic photovoltaic applications. <i>RSC Advances</i> , 2013 , 3, 10221	3.7	30
211	The Effect of Organic and Metal Oxide Interfacial layers on the Performance of Inverted Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2013 , 3, 391-398	21.8	34
210	Understanding the Reduced Efficiencies of Organic Solar Cells Employing Fullerene Multiadducts as Acceptors. <i>Advanced Energy Materials</i> , 2013 , 3, 744-752	21.8	115
209	Organic Solar Cells 2013 , 443-466		
208	Relating Recombination, Density of States, and Device Performance in an Efficient Polymer:Fullerene Organic Solar Cell Blend. <i>Advanced Energy Materials</i> , 2013 , 3, 1201-1209	21.8	81
207	Influence of crystallinity and energetics on charge separation in polymer-inorganic nanocomposite films for solar cells. <i>Scientific Reports</i> , 2013 , 3, 1531	4.9	81

206	On the Differences between Dark and Light Ideality Factor in Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2371-2376	6.4	178
205	Interpreting the Density of States Extracted from Organic Solar Cells Using Transient Photocurrent Measurements. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12407-12414	3.8	45
204	Influence of polar medium on the reorganization energy of charge transfer between dyes in a dye sensitized film. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4804-14	3.6	71
203	Can solar power deliver??. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120372	3	7
202	Environmental and economic assessment of ITO-free electrodes for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 14-21	6.4	229
201	Fused pyrrolo[3,2-d:4,5-d']bisthiazole-containing polymers for using in high-performance organic bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 112-116	6.4	14
200	The use of polyurethane as encapsulating method for polymer solar cellsAn inter laboratory study on outdoor stability in 8 countries. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 292-300	6.4	34
199	Meaning of reaction orders in polymer:fullerene solar cells. <i>Physical Review B</i> , 2012 , 86,	3.3	174
198	Organic Solar Cells 2012 , 543-569		3
197	The Influence of Substrate and Top Electrode on the Crystallization Dynamics of P3HT: PCBM Blends. <i>Energy Procedia</i> , 2012 , 31, 60-68	2.3	7
196	Sensitivity of the Mott-Schottky Analysis in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7672-7680	3.8	202
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