Paul L Burn

List of Publications by Year in Descending Order

413 papers	29,685 citations	68 h-index	163 g-index
443 ext. papers	31,575 ext. citations	8.1 avg, IF	6.92 L-index

#	Paper	IF	Citations
413	Investigating the donor:acceptor ratio in thermally activated delayed fluorescence light-emitting macromolecules. *Organic Electronics*, **2022**, 105, 106500	3.5	1
412	Understanding the performance differences between solution and vacuum deposited OLEDs: A computational approach. *Journal of Chemical Physics*, **2022**, 156, 214703	3.9	0
411	Light-emitting dendrimer:exciplex host-based solution-processed white organic light-emitting diodes. *Organic Electronics*, **2021**, 100, 106389	3.5	2
410	Effect of dendron structure on the luminescent and charge transporting properties of solution processed dendrimer-based OLEDs. *Journal of Materials Chemistry C*, **2021**, 9, 16033-16043	7.1	1
409	Acid is a potential interferent in fluorescent sensing of chemical warfare agent vapors. *Communications Chemistry*, **2021**, 4,	6.3	5
408	Unraveling exciton processes in Ir(ppy):CBP OLED films upon photoexcitation. *Journal of Chemical Physics*, **2021**, 154, 164101	3.9	6
407	Diffusion in Organic Film Stacks Containing Solution-Processed Phosphorescent Poly(dendrimer) Dopants. *ACS Applied Materials & Interfaces*, **2021**, 13, 30910-30920	9.5	1
406	Measuring the Magnetic Field Amplitude of rf Radiation by the Quasistatic Magnetic Field Effect in Organic Light-Emitting Diodes. *Physical Review Applied*, **2021**, 15,	4.3	3
405	Extremely efficient flexible organic solar cells with a graphene transparent anode: Dependence on number of layers and doping of graphene. *Carbon*, **2021**, 171, 350-358	10.4	12
404	Preserving the work function of Ultra-Violet-ozone treated indium tin oxide by triarylamine-based small molecule modification for solution-processed organic light-emitting diodes with increased external quantum efficiency. *Thin Solid Films*, **2021**, 718, 138475	2.2	2
403	Floquet spin states in OLEDs. *Nature Communications*, **2021**, 12, 465	17.4	6
402	Engineering fluorinated-cation containing inverted perovskite solar cells with an efficiency of >21% and improved stability towards humidity. *Nature Communications*, **2021**, 12, 52	17.4	40
401	Balanced Hole and Electron Transport in Ir(ppy)3:TCTA Blends. *ACS Photonics*, **2021**, 8, 2425-2430	6.3	3
400	Effect of dendrimer surface groups on the properties of phosphorescent emissive films. *Organic Electronics*, **2021**, 99, 106321	3.5	1
399	A solution-processed bis-tridentate iridium(III) complex-cored dendrimer for green OLEDs. *Journal of Materials Chemistry C*, **2021**, 9, 9545-9554	7.1	2
398	Annealing-enhanced birefringence and aggregation in MEH-PPV: A spectroscopic ellipsometry study. *Journal of Applied Physics*, **2020**, 127, 093101	2.5	2
397	Conjugated Polymer Light-Emitting Diodes **2020**, 77-98		5

396	Perdeuterated Conjugated Polymers for Ultralow-Frequency Magnetic Resonance of OLEDs. *Angewandte Chemie - International Edition*, **2020**, 59, 9388-9392	16.4	7
395	Perdeuteration of poly[2-methoxy-5-(2?-ethylhexyloxy)-1,4-phenylenevinylene] (d-MEH-PPV): control of microscopic charge-carrier spin□pin coupling and of magnetic-field effects in optoelectronic devices. *Journal of Materials Chemistry C*, **2020**, 8, 2764-2771	7.1	9
394	High-Sensitivity Poly(dendrimer)-Based Sensors for the Detection of Explosives and Taggant Vapors. *Macromolecules*, **2020**, 53, 1652-1664	5.5	11
393	Properties of PDMS-divinylbenzene based pre-concentrators for nitroaromatic vapors. *Journal of Materials Chemistry C*, **2020**, 8, 16967-16973	7.1	1
392	Challenges in Fluorescence Detection of Chemical Warfare Agent Vapors Using Solid-State Films. *Advanced Materials*, **2020**, 32, e1905785	24	28
391	A red emissive poly(dendrimer) for solution processed organic light-emitting diodes. *Organic Electronics*, **2020**, 78, 105594	3.5	5
390	Revealing the Interplay between Charge Transport, Luminescence Efficiency, and Morphology in Organic Light-Emitting Diode Blends. *Advanced Functional Materials*, **2020**, 30, 1907942	15.6	19
389	Precursor Route Poly(1,4-phenylenevinylene)-Based Interlayers for Perovskite Solar Cells. *ACS Applied Energy Materials*, **2020**, 3, 889-899	6.1	7
388	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 37647-37656	9.5	16
387	A three-dimensional multi-chromophore naphthalene diimide acceptor for polymer bulk heterojunction solar cells. *Synthetic Metals*, **2020**, 268, 116505	3.6	1
386	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. *Macromolecules*, **2020**, 53, 10375-10385	5.5	9
385	Pyrrolo[3,2-]pyrrole-1,4-dione (IsoDPP) End Capped with Napthalimide or Phthalimide: Novel Small Molecular Acceptors for Organic Solar Cells. *Molecules*, **2020**, 25,	4.8	2
384	White Dendrimer Organic Light Emitting Diodes: Exciton Formation and Transfer. *Advanced Optical Materials*, **2020**, 8, 2001289	8.1	4
383	Dicyanovinyl-based fluorescent sensors for dual mechanism amine sensing. *Journal of Materials Chemistry C*, **2020**, 8, 13723-13732	7.1	13
382	Luminescent poly(dendrimer)s for the detection of explosives. *Materials Advances*, **2020**, 1, 837-844	3.3	4
381	Evolution and Morphology of Thin Films Formed by Solvent Evaporation: An Organic Semiconductor Case Study. *ACS Applied Materials & Interfaces*, **2020**, 12, 40548-40557	9.5	4
380	Determining the Correlation between Excited State Dynamics and Donor and Acceptor Structure in Nonfullerene Acceptors. *Journal of Physical Chemistry C*, **2020**, 124, 17851-17863	3.8	0
379	Hole-transporting materials for low donor content organic solar cells: Charge transport and device performance. *Organic Electronics*, **2020**, 76, 105480	3.5	5

378	Hole-Transporting Poly(dendrimer)s as Electron Donors for Low Donor Organic Solar Cells with Efficient Charge Transport. *Macromolecules*, **2020**, 53, 2902-2911	5.5	3
377	Charge transport in an organic light emitting diode material measured using metal-insulator-semiconductor charge extraction by linearly increasing voltage with parameter variation. *Journal of Applied Physics*, **2019**, 126, 035501	2.5	9
376	Flexible ITO-Free Organic Photovoltaics on Ultra-Thin Flexible Glass Substrates with High Efficiency and Improved Stability. *Solar Rrl*, **2019**, 3, 1800286	7.1	3
375	The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. *Advanced Materials*, **2019**, 31, e1901090	24	36
374	A Double Support Layer for Facile Clean Transfer of Two-Dimensional Materials for High-Performance Electronic and Optoelectronic Devices. *ACS Nano*, **2019**, 13, 5513-5522	16.7	18
373	Calculating transition dipole moments of phosphorescent emitters for efficient organic light-emitting diodes. *Physical Chemistry Chemical Physics*, **2019**, 21, 9740-9746	3.6	6
372	Graphene-Based Transparent Conducting Electrodes for High Efficiency Flexible Organic Photovoltaics: Elucidating the Source of the Power Losses. *Solar Rrl*, **2019**, 3, 1900042	7.1	7
371	Understanding charge transport in Ir(ppy):CBP OLED films. *Journal of Chemical Physics*, **2019**, 150, 094110	3.9	16
370	Sensitive and fast fluorescence-based indirect sensing of TATP.. *RSC Advances*, **2019**, 9, 7032-7042	3.7	2
369	Organic light-emitting diodes comprising highly luminescent red-emitting dendrimers with carbazole-based dendrons. *Journal of Materials Chemistry C*, **2019**, 7, 4681-4691	7.1	11
368	9,9?-Bifluorenylidene-diketopyrrolopyrrole donors for non-polymeric solution processed solar cells. *Synthetic Metals*, **2019**, 250, 79-87	3.6	
367	Effect of Surface Roughness on Light-Absorber Orientation in an Organic Photovoltaic Film. *Chemistry of Materials*, **2019**, 31, 6918-6924	9.6	2
366	Elucidating the effects of guest-host energy level alignment on charge transport in phosphorescent OLEDs. *Applied Physics Letters*, **2019**, 115, 263301	3.4	8
365	Solid-State Fluorescence-based Sensing of TATP via Hydrogen Peroxide Detection. *ACS Sensors*, **2019**, 4, 134-142	9.2	18
364	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. *Advanced Energy Materials*, **2018**, 8, 1702941	21.8	34
363	Investigating charge generation in polymer:non-fullerene acceptor bulk heterojunction films. *Organic Electronics*, **2018**, 55, 177-186	3.5	2
362	Morphology of OLED Film Stacks Containing Solution-Processed Phosphorescent Dendrimers. *ACS Applied Materials & Interfaces*, **2018**, 10, 3848-3855	9.5	4
361	Recombination Losses Above and Below the Transport Percolation Threshold in Bulk Heterojunction Organic Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1703339	21.8	13

360	Influence of Dopant Concentration and Steric Bulk on Interlayer Diffusion in OLEDs. *Advanced Materials Interfaces*, **2018**, 5, 1700872	4.6	6
359	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. *Nature Energy*, **2018**, 3, 847-854	62.3	476
358	Morphology of a Bulk Heterojunction Photovoltaic Cell with Low Donor Concentration. *ACS Applied Materials & Interfaces*, **2018**, 10, 32413-32419	9.5	16
357	An external quantum efficiency of >20% from solution-processed poly(dendrimer) organic light-emitting diodes. *Npj Flexible Electronics*, **2018**, 2,	10.7	23
356	Twisted dendrons for highly luminescent green emissive phosphorescent dendrimers. *Journal of Materials Chemistry C*, **2018**, 6, 10315-10326	7.1	12
355	Loss Mechanisms in Fullerene-Based Low-Donor Content Organic Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 20611-20618	3.8	8
354	Effect of precursor macromonomer molecular weight on poly(dimethylsiloxane) film morphology and nitroaromatic vapor sorption. *Sensors and Actuators B: Chemical*, **2018**, 270, 283-290	8.5	1
353	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 21681-21687	9.5	62
352	Application of an A-A'-A-Containing Acceptor Polymer in Sequentially Deposited All-Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 24046-24054	9.5	12
351	A thiocarbonyl-containing small molecule for optoelectronics. *RSC Advances*, **2017**, 7, 10316-10322	3.7	8
350	Synthesis of grafted poly(p-phenyleneethynylene) via ARGET ATRP: Towards nonaggregating and photoluminescence materials. *European Polymer Journal*, **2017**, 89, 263-271	5.2	8
349	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Light-Emitting Diode Films. *Angewandte Chemie - International Edition*, **2017**, 56, 8402-8406	16.4	33
348	A Triarylamine-Based Anode Modifier for Efficient Organohalide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 9096-9101	9.5	7
347	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Light-Emitting Diode Films. *Angewandte Chemie*, **2017**, 129, 8522-8526	3.6	1
346	Dependence of Organic Interlayer Diffusion on Glass-Transition Temperature in OLEDs. *ACS Applied Materials & Interfaces*, **2017**, 9, 14153-14161	9.5	28
345	Effect of n-propyl substituents on the emission properties of blue phosphorescent iridium(iii) complexes. *Journal of Chemical Physics*, **2017**, 146, 174305	3.9	2
344	Considerations for Upscaling of Organohalide Perovskite Solar Cells. *Advanced Optical Materials*, **2017**, 5, 1600819	8.1	14
343	The structural impact of water sorption on device-quality melanin thin films. *Soft Matter*, **2017**, 13, 3954-3965	3.8	15

342	Engineering dielectric constants in organic semiconductors. *Journal of Materials Chemistry C*, **2017**, 5, 3736-3747	7.1	35
341	Host-Free Blue Phosphorescent Dendrimer Organic Light-Emitting Field-Effect Transistors and Equivalent Light-Emitting Diodes: A Comparative Study. *ACS Photonics*, **2017**, 4, 754-760	6.3	26
340	Relating Structure to Efficiency in Surfactant-Free Polymer/Fullerene Nanoparticle-Based Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 42986-42995	9.5	13
339	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. *Journal of Materials Chemistry A*, **2017**, 5, 22542-22558	13	55
338	Charge Generation in Non-Fullerene Donor–Acceptor Blends for Organic Solar Cells. *Journal of Physical Chemistry C*, **2017**, 121, 18412-18422	3.8	5
337	Real-time fluorescence quenching-based detection of nitro-containing explosive vapours: what are the key processes?. *Physical Chemistry Chemical Physics*, **2017**, 19, 29714-29730	3.6	32
336	The Molecular Origin of Anisotropic Emission in an Organic Light-Emitting Diode. *Nano Letters*, **2017**, 17, 6464-6468	11.5	30
335	Effect of capping group on the properties of non-polymeric diketopyrrolopyrroles for solution-processed bulk heterojunction solar cells. *Organic Electronics*, **2017**, 50, 339-346	3.5	2
334	Electric Field and Mobility Dependent First-Order Recombination Losses in Organic Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601379	21.8	24
333	Assessing the sensing limits of fluorescent dendrimer thin films for the detection of explosive vapors. *Sensors and Actuators B: Chemical*, **2017**, 239, 727-733	8.5	11
332	Efficient organic photovoltaic cells on a single layer graphene transparent conductive electrode using MoO as an interfacial layer. *Nanoscale*, **2017**, 9, 251-257	7.7	24
331	On the unipolarity of charge transport in methanofullerene diodes. *Npj Flexible Electronics*, **2017**, 1,	10.7	13
330	Efficient, monolithic large area organohalide perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 13830-13836	13	41
329	Orange-Red-Light-Emitting Field-Effect Transistors Based on Phosphorescent Pt(II) Complexes with Area Emission. *Advanced Optical Materials*, **2016**, 4, 1867-1874	8.1	14
328	Near infrared photodetectors based on sub-gap absorption in organohalide perovskite single crystals. *Laser and Photonics Reviews*, **2016**, 10, 1047-1053	8.3	46
327	Electrochemically tuneable multi-colour electrochemiluminescence using a single emitter. *Chemical Science*, **2016**, 7, 6974-6980	9.4	27
326	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Real-Time Sensing. *ChemPhysChem*, **2016**, 17, 3345-3345	3.2	
325	Slower carriers limit charge generation in organic semiconductor light-harvesting systems. *Nature Communications*, **2016**, 7, 11944	17.4	55

324	Impact of Dimerization on Phase Separation and Crystallinity in Bulk Heterojunction Films Containing Non-Fullerene Acceptors. *Macromolecules*, **2016**, 49, 4404-4415	5.5	21
323	Charge Generation Pathways in Organic Solar Cells: Assessing the Contribution from the Electron Acceptor. *Chemical Reviews*, **2016**, 116, 12920-12955	68.1	166
322	Organic Photodiodes: The Future of Full Color Detection and Image Sensing. *Advanced Materials*, **2016**, 28, 4766-802	24	447
321	Exact exchange and the density functional theory of metal-to-ligand charge-transfer in fac-Ir(ppy)3. *Organic Electronics*, **2016**, 33, 110-115	3.5	11
320	The synthesis and ring-opening metathesis polymerization of glycomonomers. *RSC Advances*, **2016**, 6, 31256-31264	3.7	4
319	Organohalide Perovskites for Solar Energy Conversion. *Accounts of Chemical Research*, **2016**, 49, 545-53	24.3	122
318	Phosphorescence quenching of fac-tris(2-phenylpyridyl)iridium(iii) complexes in thin films on dielectric surfaces. *Physical Chemistry Chemical Physics*, **2016**, 18, 3575-80	3.6	4
317	An Hydrophilic Anode Interlayer for Solution Processed Organohalide Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1500420	4.6	18
316	Diffusion at Interfaces in OLEDs Containing a Doped Phosphorescent Emissive Layer. *Advanced Materials Interfaces*, **2016**, 3, 1600184	4.6	13
315	Acceptor and Excitation Density Dependence of the Ultrafast Polaron Absorption Signal in Donor-Acceptor Organic Solar Cell Blends. *Journal of Physical Chemistry Letters*, **2016**, 7, 2640-6	6.4	12
314	Thiophene dendrimer-based low donor content solar cells. *Applied Physics Letters*, **2016**, 109, 103302	3.4	10
313	AZO/Ag/AZO anode for resonant cavity red, blue, and yellow organic light emitting diodes. *Journal of Applied Physics*, **2016**, 119, 245501	2.5	4
312	Bond Fission and Non-Radiative Decay in Iridium(III) Complexes. *Inorganic Chemistry*, **2016**, 55, 5266-73	5.1	41
311	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Real-Time Sensing. *ChemPhysChem*, **2016**, 17, 3350-3353	3.2	12
310	Photophysics of detection of explosive vapours via luminescence quenching of thin films: impact of inter-molecular interactions. *Physical Chemistry Chemical Physics*, **2016**, 18, 25861-25868	3.6	5
309	Highly processable, rubbery poly(n-butyl acrylate) grafted poly(phenylene vinylene)s. *European Polymer Journal*, **2016**, 84, 355-365	5.2	12
308	Narrowband light detection via internal quantum efficiency manipulation of organic photodiodes. *Nature Communications*, **2015**, 6, 6343	17.4	316
307	Charge transport and recombination in heterostructure organic light emitting transistors. *Organic Electronics*, **2015**, 25, 37-43	3.5	7

306	Dielectric constant enhancement of non-fullerene acceptors via side-chain modification. *Chemical Communications*, **2015**, 51, 14115-8	5.8	41
305	Defining the light emitting area for displays in the unipolar regime of highly efficient light emitting transistors. *Scientific Reports*, **2015**, 5, 8818	4.9	31
304	Photocarrier drift distance in organic solar cells and photodetectors. *Scientific Reports*, **2015**, 5, 9949	4.9	74
303	Planar silver nanowire, carbon nanotube and PEDOT:PSS nanocomposite transparent electrodes. *Science and Technology of Advanced Materials*, **2015**, 16, 025002	7.1	23
302	Room-temperature tilted-target sputtering deposition of highly transparent and low sheet resistance Al doped ZnO electrodes. *Journal of Materials Chemistry C*, **2015**, 3, 5322-5331	7.1	15
301	Simultaneous enhancement of charge generation quantum yield and carrier transport in organic solar cells. *Journal of Materials Chemistry C*, **2015**, 3, 10799-10812	7.1	17
300	Unambiguous detection of nitrated explosive vapours by fluorescence quenching of dendrimer films. *Nature Communications*, **2015**, 6, 8240	17.4	60
299	Analysis of the emitting states of an Ir(III) complex with strong blue emission. *Chemical Physics Letters*, **2015**, 641, 62-67	2.5	3
298	Interplay of Zero-Field Splitting and Excited State Geometry Relaxation in fac-Ir(ppy)3. *Inorganic Chemistry*, **2015**, 54, 10457-61	5.1	14
297	Molecular versus exciton diffusion in fluorescence-based explosive vapour sensors. *Chemical Communications*, **2015**, 51, 17406-9	5.8	8
296	Quantitative real time sensing reveals enhanced sensitivity of polar dendrimer thin films for plastic explosive taggants. *Journal of Materials Chemistry C*, **2015**, 3, 9412-9424	7.1	2
295	Filterless narrowband visible photodetectors. *Nature Photonics*, **2015**, 9, 687-694	33.9	325
294	The spin-Dicke effect in OLED magnetoresistance. *Nature Physics*, **2015**, 11, 910-914	16.2	33
293	Clustering of High Molecular Weight PCDTBT in Bulk-Heterojunction Casting Solutions. *Macromolecules*, **2015**, 48, 8331-8336	5.5	11
292	Electro-Optics of Conventional and Inverted Thick Junction Organic Solar Cells. *ACS Photonics*, **2015**, 2, 1745-1754	6.3	33
291	Charge Transport without Recombination in Organic Solar Cells and Photodiodes. *Journal of Physical Chemistry C*, **2015**, 119, 26866-26874	3.8	24
290	Tuning the optoelectronic properties of nonfullerene electron acceptors. *ChemPhysChem*, **2015**, 16, 1295-304	3.3	11
289	Electro-optics of perovskite solar cells. *Nature Photonics*, **2015**, 9, 106-112	33.9	1260

288	Optimized multilayer indium-free electrodes for organic photovoltaics. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 348-355	1.6	8
287	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. *Organic Electronics*, **2015**, 16, 205-211	3.5	10
286	Efficient, Large Area, and Thick Junction Polymer Solar Cells with Balanced Mobilities and Low Defect Densities. *Advanced Energy Materials*, **2015**, 5, 1401221	21.8	75
285	High-Performance, Solution-Processed Non-polymeric Organic Photodiodes. *Advanced Optical Materials*, **2015**, 3, 50-56	8.1	35
284	An overview of the Australian Centre for Advanced Photovoltaics and the Australia-US Institute for Advanced Photovoltaics. *Materials Research Society Symposia Proceedings*, **2015**, 1771, 33-44		
283	Hybrid Area-Emitting Transistors: Solution Processable and with High Aperture Ratios. *Advanced Materials*, **2015**, 27, 6677-82	24	33
282	Bulk heterojunction thickness uniformity a limiting factor in large area organic solar cells?. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2246-2254	1.6	16
281	Pathway to high throughput, low cost indium-free transparent electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 13892-13899	13	13
280	Diffusion of nitroaromatic vapours into fluorescent dendrimer films for explosives detection. *Sensors and Actuators B: Chemical*, **2015**, 210, 550-557	8.5	19
279	Efficient and bright polymer light emitting field effect transistors. *Organic Electronics*, **2015**, 17, 371-376	3.5	23
278	Low noise, IR-blind organohalide perovskite photodiodes for visible light detection and imaging. *Advanced Materials*, **2015**, 27, 2060-4	24	233
277	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. *Scientific Reports*, **2014**, 4, 5695	4.9	47
276	Determination of fullerene scattering length density: a critical parameter for understanding the fullerene distribution in bulk heterojunction organic photovoltaic devices. *Langmuir*, **2014**, 30, 1410-5	4	19
275	Solution-processed pentathiophene dendrimer based photodetectors for digital cameras. *Sensors and Actuators B: Chemical*, **2014**, 196, 245-251	8.5	15
274	Solution structure: defining polymer film morphology and optoelectronic device performance. *Journal of Materials Chemistry C*, **2014**, 2, 71-77	7.1	18
273	Dynamics of Charge Generation and Transport in Polymer-Fullerene Blends Elucidated Using a PhotoFET Architecture. *ACS Photonics*, **2014**, 1, 114-120	6.3	16
272	Carbohydrate globules: molecular asterisk-cored dendrimers for carbohydrate presentation. *Polymer Chemistry*, **2014**, 5, 1173-1179	4.9	7
271	Synthesis and properties of pyrrolo[3,2-b]pyrrole-1,4-diones (isoDPP) derivatives. *Journal of Materials Chemistry C*, **2014**, 2, 4276	7.1	11

270	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. *Applied Physics Letters*, **2014**, 105, 013302	3.4	31
269	Spectral dependence of the internal quantum efficiency of organic solar cells: effect of charge generation pathways. *Journal of the American Chemical Society*, **2014**, 136, 11465-72	16.4	75
268	Time-resolved neutron reflectometry and photovoltaic device studies on sequentially deposited PCDTBT-fullerene layers. *Langmuir*, **2014**, 30, 11474-84	4	31
267	Improved stability of non-ITO stacked electrodes for large area flexible organic solar cells. *Solar Energy Materials and Solar Cells*, **2014**, 130, 182-190	6.4	17
266	Thick junction broadband organic photodiodes. *Laser and Photonics Reviews*, **2014**, 8, 924-932	8.3	164
265	Worldwide outdoor round robin study of organic photovoltaic devices and modules. *Solar Energy Materials and Solar Cells*, **2014**, 130, 281-290	6.4	22
264	Organic electronics. Room-temperature coupling between electrical current and nuclear spins in OLEDs. *Science*, **2014**, 345, 1487-90	33.3	75
263	High-Mobility, Heterostructure Light-Emitting Transistors and Complementary Inverters. *ACS Photonics*, **2014**, 1, 954-959	6.3	20
262	Narrow band green organic photodiodes for imaging. *Organic Electronics*, **2014**, 15, 2903-2911	3.5	73
261	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. *ACS Photonics*, **2014**, 1, 173-181	6.3	109
260	Free carrier generation in organic photovoltaic bulk heterojunctions of conjugated polymers with molecular acceptors: planar versus spherical acceptors. *ChemPhysChem*, **2014**, 15, 1539-49	3.2	26
259	All solution-processed, hybrid light emitting field-effect transistors. *Advanced Materials*, **2014**, 26, 6410-5	14	62
258	Impact of Acceptor Crystallinity on the Photophysics of Nonfullerene Blends for Organic Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 13460-13466	3.8	11
257	Energetic requirements of iridium(III) complex based photosensitisers in photocatalytic hydrogen generation. *Physical Chemistry Chemical Physics*, **2014**, 16, 21577-85	3.6	16
256	High mobility solution-processed hybrid light emitting transistors. *Applied Physics Letters*, **2014**, 105, 183302	3.4	23
255	Balanced Carrier Mobilities: Not a Necessary Condition for High-Efficiency Thin Organic Solar Cells as Determined by MIS-CELIV. *Advanced Energy Materials*, **2014**, 4, 1300954	21.8	118
254	ITO-free top emitting organic light emitting diodes with enhanced light out-coupling. *Laser and Photonics Reviews*, **2014**, 8, 165-171	8.3	31
253	Molecular weight dependent bimolecular recombination in organic solar cells. *Journal of Chemical Physics*, **2014**, 141, 054903	3.9	18

252	Pentacene/K12 solar cells formed by organic vapor phase deposition. *Journal of Photonics for Energy*, **2014**, 4, 043092	1.2	
251	Tuning the optoelectronic properties of cyanine and ketocyanine dyes by incorporation of 9,9-di-n-propylfluorenylindolenine. *Dyes and Pigments*, **2014**, 101, 1-8	4.6	9
250	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. *Nature Materials*, **2013**, 12, 593	27	34
249	Three-dimensional carbazole-based dendrimers: model structures for studying charge transport in organic semiconductor films. *Polymer Chemistry*, **2013**, 4, 916-925	4.9	18
248	Photophysics of delocalized excitons in carbazole dendrimers. *Journal of Physical Chemistry A*, **2013**, 117, 6270-8	2.8	17
247	Detection of explosive analytes using a dendrimer-based field-effect transistor. *Organic Electronics*, **2013**, 14, 1255-1261	3.5	5
246	Colour selective organic photodetectors utilizing ketocyanine-cored dendrimers. *Journal of Materials Chemistry C*, **2013**, 1, 3532	7.1	57
245	Correlation of diffusion and performance in sequentially processed P3HT/PCBM heterojunction films by time-resolved neutron reflectometry. *Journal of Materials Chemistry C*, **2013**, 1, 2593	7.1	33
244	High-Generation Dendrimers with Excimer-like Photoluminescence for the Detection of Explosives. *Journal of Physical Chemistry C*, **2013**, 117, 5328-5337	3.8	31
243	The binding and fluorescence quenching efficiency of nitroaromatic (explosive) vapors in fluorescent carbazole dendrimer thin films. *Physical Chemistry Chemical Physics*, **2013**, 15, 9845-53	3.6	26
242	A simple iterative method for the synthesis of β(1->6)-glucosamine oligosaccharides. *Carbohydrate Research*, **2013**, 371, 68-76	2.9	12
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