Paul L Burn

List of Publications by Citations

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	Light-emitting diodes based on conjugated polymers. *Nature*, **1990**, 347, 539-541	50.4	9967
412	Electro-optics of perovskite solar cells. *Nature Photonics*, **2015**, 9, 106-112	33.9	1260
411	Development of dendrimers: macromolecules for use in organic light-emitting diodes and solar cells. *Chemical Reviews*, **2007**, 107, 1097-116	68.1	683
410	Chemical tuning of electroluminescent copolymers to improve emission efficiencies and allow patterning. *Nature*, **1992**, 356, 47-49	50.4	673
409	Poly(p-phenylenevinylene) light-emitting diodes: Enhanced electroluminescent efficiency through charge carrier confinement. *Applied Physics Letters*, **1992**, 61, 2793-2795	3.4	613
408	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. *Nature Energy*, **2018**, 3, 847-854	62.3	476
407	Organic Photodiodes: The Future of Full Color Detection and Image Sensing. *Advanced Materials*, **2016**, 28, 4766-802	24	447
406	The Development of Light-Emitting Dendrimers for Displays. *Advanced Materials*, **2007**, 19, 1675-1688	24	437
405	Filterless narrowband visible photodetectors. *Nature Photonics*, **2015**, 9, 687-694	33.9	325
404	Narrowband light detection via internal quantum efficiency manipulation of organic photodiodes. *Nature Communications*, **2015**, 6, 6343	17.4	316
403	Photoexcited states in poly(p-phenylene vinylene): Comparison with trans,trans-distyrylbenzene, a model oligomer. *Physical Review B*, **1990**, 42, 11670-11681	3.3	263
402	Low noise, IR-blind organohalide perovskite photodiodes for visible light detection and imaging. *Advanced Materials*, **2015**, 27, 2060-4	24	233
401	Conjugated Dendrimers for Light-Emitting Diodes: Effect of Generation. *Advanced Materials*, **1999**, 11, 371-374	24	225
400	Chemical tuning of the electronic properties of poly(p-phenylenevinylene)-based copolymers. *Journal of the American Chemical Society*, **1993**, 115, 10117-10124	16.4	215
399	Blue Phosphorescence from Iridium(III) Complexes at Room Temperature. *Chemistry of Materials*, **2006**, 18, 5119-5129	9.6	212
398	Optical spectroscopy of highly ordered poly(p-phenylene vinylene). *Journal of Physics Condensed Matter*, **1993**, 5, 7155-7172	1.8	209
397	Morphology of all-solution-processed "bilayer" organic solar cells. *Advanced Materials*, **2011**, 23, 766-70	24	208

396	High-efficiency green phosphorescence from spin-coated single-layer dendrimer light-emitting diodes. *Applied Physics Letters*, **2002**, 80, 2645-2647	3.4	201
395	Precursor route chemistry and electronic properties of poly(p-phenylenevinylene), poly[(2,5-dimethyl-p-phenylene)vinylene] and poly[(2,5-dimethoxy-p-phenylene)vinylene]. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 3225		177
394	An approach to porphyrin-based molecular wires: synthesis of a bis(porphyrin)tetraone and its conversion to a linearly conjugated tetrakisporphyrin system. *Journal of the Chemical Society Chemical Communications*, **1991**, 1569		175
393	High-triplet-energy dendrons: enhancing the luminescence of deep blue phosphorescent iridium(III) complexes. *Journal of the American Chemical Society*, **2009**, 131, 16681-8	16.4	174
392	Conformational effects in poly(p-phenylene vinylene)s revealed by low-temperature site-selective fluorescence. *Journal of Physics Condensed Matter*, **1993**, 5, 247-260	1.8	170
391	Charge Generation Pathways in Organic Solar Cells: Assessing the Contribution from the Electron Acceptor. *Chemical Reviews*, **2016**, 116, 12920-12955	68.1	166
390	Thick junction broadband organic photodiodes. *Laser and Photonics Reviews*, **2014**, 8, 924-932	8.3	164
389	Solution-Processable Red Phosphorescent Dendrimers for Light-Emitting Device Applications. *Advanced Materials*, **2004**, 16, 557-560	24	158
388	Singlet exciton diffusion in MEH-PPV films studied by exciton–exciton annihilation. *Organic Electronics*, **2006**, 7, 452-456	3.5	145
387	Synthesis and Properties of Highly Efficient Electroluminescent Green Phosphorescent Iridium Cored Dendrimers. *Macromolecules*, **2003**, 36, 9721-9730	5.5	144
386	Encapsulated Cores: Host-Free Organic Light-Emitting Diodes Based on Solution-Processible Electrophosphorescent Dendrimers. *Advanced Materials*, **2005**, 17, 1945-1948	24	139
385	The efficiency and time-dependence of luminescence from poly (p-phenylene vinylene) and derivatives. *Chemical Physics Letters*, **1993**, 213, 472-478	2.5	138
384	A Small Molecule Non-fullerene Electron Acceptor for Organic Solar Cells. *Advanced Energy Materials*, **2011**, 1, 73-81	21.8	135
383	Efficient, large area ITO-and-PEDOT-free organic solar cell sub-modules. *Advanced Materials*, **2012**, 24, 2572-7	24	134
382	Control of Charge Transport and Intermolecular Interaction in Organic Light-Emitting Diodes by Dendrimer Generation. *Advanced Materials*, **2001**, 13, 258-261	24	132
381	Electroluminescence from multilayer conjugated polymer devices: Spatial control of exciton formation and emission. *Chemical Physics Letters*, **1992**, 200, 46-54	2.5	130
380	A Light-Blue Phosphorescent Dendrimer for Efficient Solution-Processed Light-Emitting Diodes. *Advanced Functional Materials*, **2005**, 15, 1451-1458	15.6	128
379	Organohalide Perovskites for Solar Energy Conversion. *Accounts of Chemical Research*, **2016**, 49, 545-53	24.3	122

378	Explosive Sensing with Fluorescent Dendrimers: The Role of Collisional Quenching *Chemistry of Materials*, **2011**, 23, 789-794	9.6	120
377	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
376	Electroluminescence-detected magnetic-resonance study of polyparaphenylenevinylene (PPV)-based light-emitting diodes. *Physical Review B*, **1992**, 46, 15072-15077	3.3	117
375	Triplet exciton diffusion in fac-tris(2-phenylpyridine) iridium(III)-cored electroluminescent dendrimers. *Applied Physics Letters*, **2005**, 86, 091104	3.4	110
374	Synthesis of a segmented conjugated polymer chain giving a blue-shifted electroluminescence and improved efficiency. *Journal of the Chemical Society Chemical Communications*, **1992**, 32		110
373	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. *ACS Photonics*, **2014**, 1, 173-181	6.3	109
372	Photophysics of Fac-Tris(2-Phenylpyridine) Iridium(III) Cored Electroluminescent Dendrimers in Solution and Films. *Journal of Physical Chemistry B*, **2004**, 108, 1570-1577	3.4	108
371	Highly efficient single-layer dendrimer light-emitting diodes with balanced charge transport. *Applied Physics Letters*, **2003**, 82, 4824-4826	3.4	107
370	Investigations of excitation energy transfer and intramolecular interactions in a nitrogen corded distrylbenzene dendrimer system. *Journal of Chemical Physics*, **2002**, 116, 8893-8903	3.9	105
369	A Facile Iterative Procedure for the Preparation of Dendrimers Containing Luminescent Cores and Stilbene Dendrons. *Macromolecules*, **1999**, 32, 5985-5993	5.5	101
368	A Narrow Optical Gap Small Molecule Acceptor for Organic Solar Cells. *Advanced Energy Materials*, **2013**, 3, 54-59	21.8	99
367	Solution-Processible Phosphorescent Blue Dendrimers Based on Biphenyl-Dendrons and Fac-tris(phenyltriazolyl)iridium(III) Cores. *Advanced Functional Materials*, **2008**, 18, 3080-3090	15.6	99
366	Ultrafast depolarization of the fluorescence in a conjugated polymer. *Physical Review B*, **2005**, 72,	3.3	99
365	Photoluminescence and electroluminescence in conjugated polymeric systems. *Synthetic Metals*, **1993**, 57, 4031-4040	3.6	99
364	Large changes in optical response through chemical pre-ordering of poly(p-phenylenevinylene). *Advanced Materials*, **1993**, 5, 40-43	24	97
363	Conformational disorder and energy migration in MEH-PPV with partially broken conjugation. *Journal of Chemical Physics*, **2003**, 118, 7644	3.9	92
362	Rigid, laterally-bridged bis-porphyrin system. *Journal of the Chemical Society Chemical Communications*, **1987**, 39		92
361	Control of mobility in molecular organic semiconductors by dendrimer generation. *Physical Review B*, **2001**, 63,	3.3	91

360	Photoinduced absorption and photoluminescence in poly(2,5-dimethoxy-p-phenylene vinylene). *Physical Review B*, **1992**, 46, 7379-7389	3.3	86
359	Control of Electrophosphorescence in Conjugated Dendrimer Light-Emitting Diodes. *Advanced Functional Materials*, **2001**, 11, 287-294	15.6	78
358	Charge injection and transport in poly(p-phenylene vinylene) light emitting diodes. *Synthetic Metals* , **1993**, 57, 4128-4133	3.6	77
357	Fluorescent carbazole dendrimers for the detection of explosives. *Polymer Chemistry*, **2011**, 2, 2360	4.9	76
356	Highly Branched Phosphorescent Dendrimers for Efficient Solution-Processed Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2007**, 17, 1149-1152	15.6	76
355	Regiospecific introduction of four substituents to porphyrin systems at antipodal pyrrolenic positions. *Journal of the Chemical Society Chemical Communications*, **1991**, 1564		76
354	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
353	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
352	Organic electronics. Room-temperature coupling between electrical current and nuclear spins in OLEDs. *Science*, **2014**, 345, 1487-90	33.3	75
351	Photocarrier drift distance in organic solar cells and photodetectors. *Scientific Reports*, **2015**, 5, 9949	4.9	74
350	Origin of line broadening in the electronic absorption spectra of conjugated polymers: Three-pulse-echo studies of MEH-PPV in toluene. *Physical Review B*, **2000**, 61, 13670-13678	3.3	74
349	Narrow band green organic photodiodes for imaging. *Organic Electronics*, **2014**, 15, 2903-2911	3.5	73
348	Amplified spontaneous emission and lasing properties of bisfluorene-cored dendrimers. *Applied Physics Letters*, **2007**, 91, 081108	3.4	73
347	Porphyrins with appended phenanthroline units: a means by which porphyrin π-systems can be connected to an external redox centre. *Journal of the Chemical Society Chemical Communications*, **1995**, 1921-1923		73
346	Linear and nonlinear optical properties of the conjugated polymers PPV and MEH-PPV. *Physical Review B*, **1999**, 59, 15133-15142	3.3	72
345	Time-resolved luminescence measurements in poly(p-phenylenevinylene). *Synthetic Metals*, **1993**, 54, 281-288	3.6	68
344	Simultaneous enhancement of brightness, efficiency, and switching in RGB organic light emitting transistors. *Advanced Materials*, **2013**, 25, 6213-8	24	67
343	Effect of Dimensionality in Dendrimeric and Polymeric Fluorescent Materials for Detecting Explosives. *Macromolecules*, **2010**, 43, 10253-10261	5.5	67

342	Charge transport in highly efficient iridium cored electrophosphorescent dendrimers. *Journal of Applied Physics*, **2004**, 95, 438-445	2.5	66
341	Light-Emitting Diodes Based on Conjugated Polymers: Control of Colour and Efficiency. *Materials Research Society Symposia Proceedings*, **1992**, 247, 647		65
340	A new method for the synthesis of porphyrin-□diones that is applicable to the synthesis of trans-annular extended porphyrin systems. *Journal of the Chemical Society Chemical Communications*, **1991**, 1567-1568		64
339	Solid-state dendrimer sensors: probing the diffusion of an explosive analogue using neutron reflectometry. *Langmuir*, **2009**, 25, 12800-5	4	63
338	All solution-processed, hybrid light emitting field-effect transistors. *Advanced Materials*, **2014**, 26, 6410-5	14	62
337	Electroluminescence from a new distyrylbenzene based triazine dendrimer. *Journal of Materials Chemistry*, **2000**, 10, 867-871		62
336	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 21681-21687	9.5	62
335	Experimental and Theoretical Studies of the Electronic Structure of Poly(p-phenylenevinylene) and Some Ring-Substituted Derivatives. *Macromolecules*, **1995**, 28, 1959-1965	5.5	61
334	Unambiguous detection of nitrated explosive vapours by fluorescence quenching of dendrimer films. *Nature Communications*, **2015**, 6, 8240	17.4	60
333	Triplet exciton diffusion and phosphorescence quenching in iridium(III)-centered dendrimers. *Physical Review Letters*, **2008**, 100, 017402	7.4	60
332	Calculation of solid state molecular ionisation energies and electron affinities for organic semiconductors. *Organic Electronics*, **2011**, 12, 394-403	3.5	59
331	Solid-state-concentration effects on the optical absorption and emission of poly(p-phenylene vinylene)-related materials. *Physical Review B*, **1996**, 54, 5516-5522	3.3	59
330	The synthesis and properties of solution processable red-emitting phosphorescent dendrimers. *Journal of Materials Chemistry*, **2004**, 14, 2881		58
329	Colour selective organic photodetectors utilizing ketocyanine-cored dendrimers. *Journal of Materials Chemistry C*, **2013**, 1, 3532	7.1	57
328	Spin-orbit coupling in phosphorescent iridium(III) complexes. *ChemPhysChem*, **2011**, 12, 2429-38	3.2	56
327	Control of Charge Transport in Iridium(III) Complex-Cored Carbazole Dendrimers by Generation and Structural Modification. *Advanced Functional Materials*, **2009**, 19, 317-323	15.6	56
326	Control of Intrachromophore Excitonic Coherence in Electroluminescent Conjugated Dendrimers. *Journal of Physical Chemistry B*, **2002**, 106, 7647-7653	3.4	56
325	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

324	Slower carriers limit charge generation in organic semiconductor light-harvesting systems. *Nature Communications*, **2016**, 7, 11944	17.4	55
323	Controlling Hierarchy in Solution-processed Polymer Solar Cells Based on Crosslinked P3HT. *Advanced Energy Materials*, **2013**, 3, 105-112	21.8	54
322	A blue-emitting triazole-based conjugated polymer. *Advanced Materials*, **1997**, 9, 1174-1178	24	54
321	Tuning of emission color for blue dendrimer blend light-emitting diodes. *Applied Physics Letters*, **2004**, 85, 1463-1465	3.4	54
320	Surface plasmon-polariton mediated emission from phosphorescent dendrimer light-emitting diodes. *Applied Physics Letters*, **2006**, 88, 161105	3.4	52
319	Novel Heterolayer Organic Light-Emitting Diodes Based on a Conjugated Dendrimer. *Advanced Functional Materials*, **2002**, 12, 507	15.6	52
318	Doping-Induced Screening of the Built-in-Field in Organic Solar Cells: Effect on Charge Transport and Recombination. *Advanced Energy Materials*, **2013**, 3, 321-327	21.8	50
317	A Phosphorescent Poly(dendrimer) Containing Iridium(III) Complexes: Synthesis and Light-Emitting Properties. *Macromolecules*, **2010**, 43, 6986-6994	5.5	50
316	A rapid route to carbazole containing dendrons and phosphorescent dendrimers. *Journal of Materials Chemistry*, **2008**, 18, 2121		50
315	Studies on the efficient synthesis of poly(phenylenevinylene) (PPV) and poly (dimethoxy phenylenevinylene) (dimethoxy-PPV). *Synthetic Metals*, **1991**, 41, 261-264	3.6	49
314	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. *Scientific Reports*, **2014**, 4, 5695	4.9	47
313	Conjugated dendrimers for LEDs: Control of colour. *Synthetic Metals*, **1999**, 102, 1113-1114	3.6	47
312	Near infrared photodetectors based on sub-gap absorption in organohalide perovskite single crystals. *Laser and Photonics Reviews*, **2016**, 10, 1047-1053	8.3	46
311	Extended π-conjugation in poly(p-phenylenevinylene) from a chemically modified precursor polymer. *Synthetic Metals*, **1993**, 55, 954-959	3.6	46
310	Effects of fluorination on iridium(III) complex phosphorescence: magnetic circular dichroism and relativistic time-dependent density functional theory. *Inorganic Chemistry*, **2012**, 51, 2821-31	5.1	45
309	The synthesis and properties of iridium cored dendrimers with carbazole dendrons. *Organic Electronics*, **2006**, 7, 85-98	3.5	44
308	Investigating the Effect of Steric Crowding in Phosphorescent Dendrimers. *Macromolecules*, **2005**, 38, 9564-9570	5.5	43
307	The Effect of Core Delocalization on Intermolecular Interactions in Conjugated Dendrimers. *Advanced Functional Materials*, **2003**, 13, 211-218	15.6	43

306	Influence of molecular structure on the properties of dendrimer light-emitting diodes. *Organic Electronics*, **2003**, 4, 71-76	3.5	43
305	Phosphorescent light-emitting transistors: harvesting triplet excitons. *Advanced Materials*, **2009**, 21, 4957-4961	24	42
304	Bright electroluminescence from a conjugated dendrimer. *Applied Physics Letters*, **2002**, 81, 2285-2287	3.4	42
303	Dielectric constant enhancement of non-fullerene acceptors via side-chain modification. *Chemical Communications*, **2015**, 51, 14115-8	5.8	41
302	Efficient, monolithic large area organohalide perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 13830-13836	13	41
301	Investigating Morphology and Stability of Fac-tris (2-phenylpyridyl)iridium(III) Films for OLEDs. *Advanced Functional Materials*, **2011**, 21, 2225-2231	15.6	41
300	Tuning hyperfine fields in conjugated polymers for coherent organic spintronics. *Journal of the American Chemical Society*, **2011**, 133, 2019-21	16.4	41
299	Chemosensing of 1,4-dinitrobenzene using bisfluorene dendrimer distributed feedback lasers. *Applied Physics Letters*, **2009**, 95, 063305	3.4	41
298	Bond Fission and Non-Radiative Decay in Iridium(III) Complexes. *Inorganic Chemistry*, **2016**, 55, 5266-73	5.1	41
297	Insoluble Poly [2-(2?-ethylhexyloxy)-5-methoxy-1,4-phenylenevinylene] for Use in Multilayer Light-Emitting Diodes. *Advanced Materials*, **1997**, 9, 1171-1174	24	40
296	Light emission from poly(p-phenylene vinylene): A comparison between photo- and electro-luminescence. *Synthetic Metals*, **1991**, 43, 3135-3141	3.6	40
295	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
294	Injected charge extraction by linearly increasing voltage for bimolecular recombination studies in organic solar cells. *Applied Physics Letters*, **2012**, 101, 083306	3.4	39
293	The synthesis and characterisation of some poly(2,5-dialkoxy-1,4-phenylene vinylene)s. *Synthetic Metals*, **1993**, 55, 914-917	3.6	39
292	Relativistic effects in a phosphorescent Ir(III) complex. *Physical Review B*, **2011**, 83,	3.3	38
291	Two-Photon Absorption and Lasing in First-Generation Bisfluorene Dendrimers. *Advanced Materials* , **2008**, 20, 1940-1944	24	38
290	The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. *Advanced Materials*, **2019**, 31, e1901090	24	36
289	Solution processable phosphorescent rhenium(I) dendrimers. *Journal of Materials Chemistry*, **2007**, 17, 4255		36

288	A new synthetic approach to porphyrin-□diones and a -2,3,12,13-tetraone: building blocks for laterally conjugated porphyrin arrays. *Journal of the Chemical Society, Perkin Transactions 1*, **2001**, 14-20		36
287	A New Electron-withdrawing Group Containing Poly(1,4-phenylenevinylene). *Macromolecules*, **1999**, 32, 111-117	5.5	36
286	Engineering dielectric constants in organic semiconductors. *Journal of Materials Chemistry C*, **2017**, 5, 3736-3747	7.1	35
285	High-Performance, Solution-Processed Non-polymeric Organic Photodiodes. *Advanced Optical Materials*, **2015**, 3, 50-56	8.1	35
284	Hole-transporting compounds for multi-layer polymer light-emitting diodes. *Synthetic Metals*, **1993**, 57, 4163-4167	3.6	35
283	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
282	Nanostructured, active organic-metal junctions for highly efficient charge generation and extraction in polymer-fullerene solar cells. *Advanced Materials*, **2012**, 24, 1055-61	24	34
281	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. *Nature Materials*, **2013**, 12, 593	27	34
280	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitised solar cells. *Organic Electronics*, **2009**, 10, 1356-1363	3.5	34
279	The development of phenylethylene dendrons for blue phosphorescent emitters. *Journal of Materials Chemistry*, **2009**, 19, 3213		34
278	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Light-Emitting Diode Films. *Angewandte Chemie - International Edition*, **2017**, 56, 8402-8406	16.4	33
277	The spin-Dicke effect in OLED magnetoresistance. *Nature Physics*, **2015**, 11, 910-914	16.2	33
276	Electro-Optics of Conventional and Inverted Thick Junction Organic Solar Cells. *ACS Photonics*, **2015** , 2, 1745-1754	6.3	33
275	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
274	Hybrid Area-Emitting Transistors: Solution Processable and with High Aperture Ratios. *Advanced Materials*, **2015**, 27, 6677-82	24	33
273	Mechanisms of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. *Critical Reviews in Solid State and Materials Sciences*, **2011**, 36, 16-45	10.1	33
272	Non-radiative decay mechanisms in blue phosphorescent iridium(III) complexes. *Organic Electronics*, **2008**, 9, 377-384	3.5	33
271	Optical studies of electric fields in poly(2-methoxy-5-ethyl (2?-hexyloxy) para-phenylene vinylene) light-emitting diodes. *Applied Physics Letters*, **1999**, 74, 3714-3716	3.4	33

270	Femtosecond transient absorption measurements in poly(arylenevinylene)s. *Synthetic Metals*, **1993**, 55, 15-21	3.6	33
269	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
268	Electroabsorption studies of PPV and MEH-PPV. *Optical Materials*, **1998**, 9, 88-93	3.3	32
267	Determination of the average molecular weigth of poly(P-phenylenevinylene). *Synthetic Metals*, **1993**, 55, 902-907	3.6	32
266	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
265	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. *Applied Physics Letters*, **2014**, 105, 013302	3.4	31
264	Time-resolved neutron reflectometry and photovoltaic device studies on sequentially deposited PCDTBT-fullerene layers. *Langmuir*, **2014**, 30, 11474-84	4	31
263	Diffusion--the hidden menace in organic optoelectronic devices. *Advanced Materials*, **2012**, 24, 822-6	24	31
262	High-Generation Dendrimers with Excimer-like Photoluminescence for the Detection of Explosives. *Journal of Physical Chemistry C*, **2013**, 117, 5328-5337	3.8	31
261	ITO-free top emitting organic light emitting diodes with enhanced light out-coupling. *Laser and Photonics Reviews*, **2014**, 8, 165-171	8.3	31
260	Fluorescent carbazole dendrimers for the detection of nitroaliphatic taggants and accelerants. *Journal of Materials Chemistry*, **2012**, 22, 12507		31
259	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. *Applied Physics Letters*, **2002**, 81, 3266-3268	3.4	31
258	Synthesis and Excited State Spectroscopy of Tris(distyrylbenzenyl)amine-cored Electroluminescent Dendrimers. *Macromolecules*, **2002**, 35, 7891-7901	5.5	31
257	The Molecular Origin of Anisotropic Emission in an Organic Light-Emitting Diode. *Nano Letters*, **2017**, 17, 6464-6468	11.5	30
256	Optical spectroscopy of field-induced charge in poly(2.5-dimethoxy-p-phenylene vinylene) metal-insulator-semiconductor structures. *Synthetic Metals*, **1993**, 55, 218-223	3.6	30
255	Poly(dendrimers) with Phosphorescent Iridium(III) Complex-Based Side Chains Prepared via Ring-Opening Metathesis Polymerization. *Macromolecules*, **2012**, 45, 2963-2971	5.5	29
254	Structure□roperty relationships in conjugated molecules. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2001**, 85, 190-194	3.1	29
253	Dependence of Organic Interlayer Diffusion on Glass-Transition Temperature in OLEDs. *ACS Applied Materials & Interfaces*, **2017**, 9, 14153-14161	9.5	28

252	Determining the absorption tolerance of single chromophore photodiodes for machine vision. *Applied Physics Letters*, **2010**, 96, 253303	3.4	28
251	Synthesis and Self-Assembly of Donor–Acceptor–Donor Based Oligothiophenes and Their Optoelectronic Properties. *Journal of Physical Chemistry C*, **2011**, 115, 14369-14376	3.8	28
250	Influence of the dendron chemical structure on the photophysical properties of bisfluorene-cored dendrimers. *Journal of Chemical Physics*, **2008**, 128, 204703	3.9	28
249	Exciton confinement in organic dendrimer quantum wells for opto-electronic applications. *Journal of Chemical Physics*, **2002**, 116, 455-459	3.9	28
248	Ultrafast polarized fluorescence dynamics in an organic dendrimer. *Applied Physics Letters*, **2000**, 77, 1120-1122	3.4	28
247	Challenges in Fluorescence Detection of Chemical Warfare Agent Vapors Using Solid-State Films. *Advanced Materials*, **2020**, 32, e1905785	24	28
246	Electrochemically tuneable multi-colour electrochemiluminescence using a single emitter. *Chemical Science*, **2016**, 7, 6974-6980	9.4	27
245	Optical amplification in a first-generation dendritic organic semiconductor. *Optics Letters*, **2004**, 29, 869-71	3	27
244	The optoelectronic properties of electroluminescent dendrimers. *Synthetic Metals*, **2001**, 121, 1671-1672	2.6	27
243	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
242	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
241	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
240	Chelation of diamine ligands to zinc porphyrin monolayers amide-linkedto glass. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 2581-2586		26
239	Relating the physical structure and optical properties of conjugated polymers using neutron reflectivity in combination with photoluminescence spectroscopy. *Journal of Applied Physics*, **2004**, 95, 2391-2396	2.5	26
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