Ren Aj Janssen

List of Publications by Citations

580 papers	50,375 citations	110 h-index	205 g-index
604 ext. papers	53,267 ext. citations	9.7 avg, IF	7.67 L-index

#	Paper	IF	Citations
580	Two-dimensional charge transport in self-organized, high-mobility conjugated polymers. *Nature*, **1999**, 401, 685-688	50.4	3980
579	Nanoscale morphology of high-performance polymer solar cells. *Nano Letters*, **2005**, 5, 579-83	11.5	1424
578	Efficient methano[70]fullerene/MDMO-PPV bulk heterojunction photovoltaic cells. *Angewandte Chemie - International Edition*, **2003**, 42, 3371-5	16.4	1012
577	Materials interface engineering for solution-processed photovoltaics. *Nature*, **2012**, 488, 304-12	50.4	905
576	The Energy of Charge-Transfer States in Electron Donor/Acceptor Blends: Insight into the Energy Losses in Organic Solar Cells. *Advanced Functional Materials*, **2009**, 19, 1939-1948	15.6	861
575	Efficient Hybrid Solar Cells from Zinc Oxide Nanoparticles and a Conjugated Polymer. *Advanced Materials*, **2004**, 16, 1009-1013	24	822
574	Thieno[3,2-b]thiophene-diketopyrrolopyrrole-containing polymers for high-performance organic field-effect transistors and organic photovoltaic devices. *Journal of the American Chemical Society*, **2011**, 133, 3272-5	16.4	809
573	Hybrid zinc oxide conjugated polymer bulk heterojunction solar cells. *Journal of Physical Chemistry B*, **2005**, 109, 9505-16	3.4	769
572	Poly(diketopyrrolopyrrole-terthiophene) for ambipolar logic and photovoltaics. *Journal of the American Chemical Society*, **2009**, 131, 16616-7	16.4	685
571	Narrow-Bandgap Diketo-Pyrrolo-Pyrrole Polymer Solar Cells: The Effect of Processing on the Performance. *Advanced Materials*, **2008**, 20, 2556-2560	24	639
570	Relating the Morphology of Poly(p-phenylene vinylene)/Methanofullerene Blends to Solar-Cell Performance. *Advanced Functional Materials*, **2004**, 14, 425-434	15.6	596
569	Electron Transport in a Methanofullerene. *Advanced Functional Materials*, **2003**, 13, 43-46	15.6	551
568	Conductivity, work function, and environmental stability of PEDOT:PSS thin films treated with sorbitol. *Organic Electronics*, **2008**, 9, 727-734	3.5	536
567	Compositional and electric field dependence of the dissociation of charge transfer excitons in alternating polyfluorene copolymer/fullerene blends. *Journal of the American Chemical Society*, **2008**, 130, 7721-35	16.4	521
566	Hybrid Solar Cells from Regioregular Polythiophene and ZnO Nanoparticles. *Advanced Functional Materials*, **2006**, 16, 1112-1116	15.6	508
565	Factors limiting device efficiency in organic photovoltaics. *Advanced Materials*, **2013**, 25, 1847-58	24	489
564	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. *Nature Materials*, **2009**, 8, 818-24	27	485

563	A Low-Bandgap Semiconducting Polymer for Photovoltaic Devices and Infrared Emitting Diodes. *Advanced Functional Materials*, **2002**, 12, 709-712	15.6	483
562	Efficient tandem and triple-junction polymer solar cells. *Journal of the American Chemical Society*, **2013**, 135, 5529-32	16.4	472
561	Microscopic Understanding of the Anisotropic Conductivity of PEDOT:PSS Thin Films. *Advanced Materials*, **2007**, 19, 1196-1200	24	425
560	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. *Journal of the American Chemical Society*, **2015**, 137, 7282-5	16.4	396
559	Diketopyrrolopyrrole Polymers for Organic Solar Cells. *Accounts of Chemical Research*, **2016**, 49, 78-85	24.3	385
558	Supramolecular p-n-heterojunctions by co-self-organization of oligo(p-phenylene vinylene) and perylene bisimide dyes. *Journal of the American Chemical Society*, **2004**, 126, 10611-8	16.4	383
557	High-molecular-weight regular alternating diketopyrrolopyrrole-based terpolymers for efficient organic solar cells. *Angewandte Chemie - International Edition*, **2013**, 52, 8341-4	16.4	377
556	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. *ACS Nano*, **2015**, 9, 9380-93	16.7	366
555	Compositional Dependence of the Performance of Poly(p-phenylene vinylene):Methanofullerene Bulk-Heterojunction Solar Cells. *Advanced Functional Materials*, **2005**, 15, 795-801	15.6	363
554	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. *Journal of the American Chemical Society*, **2016**, 138, 10935-44	16.4	362
553	Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode. *Journal of the American Chemical Society*, **1997**, 119, 9909-9910	16.4	352
552	Efficient solar cells based on an easily accessible diketopyrrolopyrrole polymer. *Advanced Materials*, **2010**, 22, E242-6	24	350
551	High quantum efficiencies in polymer solar cells at energy losses below 0.6 eV. *Journal of the American Chemical Society*, **2015**, 137, 2231-4	16.4	334
550	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. *Macromolecules*, **2004**, 37, 2151-2158	5.5	325
549	The use of ZnO as optical spacer in polymer solar cells: Theoretical and experimental study. *Applied Physics Letters*, **2007**, 91, 113520	3.4	316
548	Double and triple junction polymer solar cells processed from solution. *Applied Physics Letters*, **2007**, 90, 143512	3.4	306
547	A Morphological Model for the Solvent-Enhanced Conductivity of PEDOT:PSS Thin Films. *Advanced Functional Materials*, **2008**, 18, 865-871	15.6	293
546	Spectroscopic Studies of Photoexcitations in Regioregular and Regiorandom Polythiophene Films. *Advanced Functional Materials*, **2002**, 12, 587-597	15.6	290

545	Universal correlation between fibril width and quantum efficiency in diketopyrrolopyrrole-based polymer solar cells. *Journal of the American Chemical Society*, **2013**, 135, 18942-8	16.4	285
544	Multicomponent semiconducting polymer systems with low crystallization-induced percolation threshold. *Nature Materials*, **2006**, 5, 950-6	27	276
543	Efficient small bandgap polymer solar cells with high fill factors for 300 nm thick films. *Advanced Materials*, **2013**, 25, 3182-6	24	275
542	Quantifying bimolecular recombination losses in organic bulk heterojunction solar cells. *Advanced Materials*, **2011**, 23, 1670-4	24	258
541	Enhancing the photocurrent in diketopyrrolopyrrole-based polymer solar cells via energy level control. *Journal of the American Chemical Society*, **2012**, 134, 13787-95	16.4	249
540	Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly{3,4-di[(S)-2-methylbutoxy]thiophene}. *Journal of the American Chemical Society*, **1996**, 118, 4908-4909	16.4	249
539	Solution-Processed Organic Tandem Solar Cells. *Advanced Functional Materials*, **2006**, 16, 1897-1903	15.6	247
538	A real-time study of the benefits of co-solvents in polymer solar cell processing. *Nature Communications*, **2015**, 6, 6229	17.4	244
537	Two-Dimensional Crystals of Poly(3-Alkyl- thiophene)s: Direct Visualization of Polymer Folds in Submolecular Resolution This work was supported by the European Union in the framework of Frequent-Esprit 24793. *Angewandte Chemie - International Edition*, **2000**, 39, 2679-2684	16.4	238
536	Photoinduced Electron Transfer and Photovoltaic Response of a MDMO-PPV:TiO2 Bulk-Heterojunction. *Advanced Materials*, **2003**, 15, 118-121	24	233
535	Small-bandgap semiconducting polymers with high near-infrared photoresponse. *Journal of the American Chemical Society*, **2014**, 136, 12130-6	16.4	230
534	Redox States of Long Oligothiophenes: Two Polarons on a Single Chain. *Chemistry - A European Journal*, **1998**, 4, 1509-1522	4.8	228
533	Predicting morphologies of solution processed polymer:fullerene blends. *Journal of the American Chemical Society*, **2013**, 135, 12057-67	16.4	224
532	Polymer solar cells with diketopyrrolopyrrole conjugated polymers as the electron donor and electron acceptor. *Advanced Materials*, **2014**, 26, 3304-9	24	221
531	Photoinduced electron transfer and photovoltaic devices of a conjugated polymer with pendant fullerenes. *Journal of the American Chemical Society*, **2001**, 123, 6714-5	16.4	216
530	Influence of Chain Length and Derivatization on the Lowest Singlet and Triplet States and Intersystem Crossing in Oligothiophenes. *Journal of the American Chemical Society*, **1996**, 118, 6453-6461	16.4	214
529	Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo(p-phenylene vinylene)-fullerene Dyads?. *Journal of Physical Chemistry B*, **2000**, 104, 10174-10190	3.4	211
528	Optimizing polymer tandem solar cells. *Advanced Materials*, **2010**, 22, E67-71	24	210

527	Functionalized 3D oligothiophene dendrons and dendrimers--novel macromolecules for organic electronics. *Angewandte Chemie - International Edition*, **2007**, 46, 1679-83	16.4	210
526	Solution-Processed Bulk-Heterojunction Solar Cells Based on Monodisperse Dendritic Oligothiophenes. *Advanced Functional Materials*, **2008**, 18, 3323-3331	15.6	209
525	A unifying model for the operation of light-emitting electrochemical cells. *Journal of the American Chemical Society*, **2010**, 132, 13776-81	16.4	207
524	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1968-1977	6.4	194
523	On the origin of optical activity in polythiophenes. *Journal of Molecular Structure*, **2000**, 521, 285-301	3.4	194
522	Hybrid Solar Cells Using a Zinc Oxide Precursor and a Conjugated Polymer. *Advanced Functional Materials*, **2005**, 15, 1703-1707	15.6	190
521	Effect of the fibrillar microstructure on the efficiency of high molecular weight diketopyrrolopyrrole-based polymer solar cells. *Advanced Materials*, **2014**, 26, 1565-70	24	186
520	Alternating oligo(p-phenylene vinylene)--perylene bisimide copolymers: synthesis, photophysics, and photovoltaic properties of a new class of donor--acceptor materials. *Journal of the American Chemical Society*, **2003**, 125, 8625-38	16.4	184
519	Low-band gap poly(di-2-thienylthienopyrazine):fullerene solar cells. *Applied Physics Letters*, **2006**, 88, 153511	3.4	182
518	9.0% power conversion efficiency from ternary all-polymer solar cells. *Energy and Environmental Science*, **2017**, 10, 2212-2221	35.4	179
517	Tough, Semiconducting Polyethylene-poly(3-hexylthiophene) Diblock Copolymers. *Advanced Functional Materials*, **2007**, 17, 2674-2679	15.6	176
516	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 395-403	13	173
515	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. *Journal of the American Chemical Society*, **2018**, 140, 8934-8943	16.4	171
514	Solution processed polymer tandem solar cell using efficient small and wide bandgap polymer:fullerene blends. *Advanced Materials*, **2012**, 24, 2130-4	24	166
513	Anisotropic hopping conduction in spin-coated PEDOT:PSS thin films. *Physical Review B*, **2007**, 76,	3.3	166
512	Polymer-Fullerene Bulk Heterojunction Solar Cells. *MRS Bulletin*, **2005**, 30, 33-36	3.2	158
511	Influence of intermolecular orientation on the photoinduced charge transfer kinetics in self-assembled aggregates of donor-acceptor arrays. *Journal of the American Chemical Society*, **2006**, 128, 649-57	16.4	156
510	Optical and redox properties of a series of 3,4-ethylenedioxythiophene oligomers. *Chemistry - A European Journal*, **2002**, 8, 2384-96	4.8	156

509	The Effect of H- and J-Aggregation on the Photophysical and Photovoltaic Properties of Small Thiophene-Pyridine-DPP Molecules for Bulk-Heterojunction Solar Cells. *Advanced Functional Materials*, **2017**, 27, 1605779	15.6	154
508	Red, green, and blue quantum dot LEDs with solution processable ZnO nanocrystal electron injection layers. *Journal of Materials Chemistry*, **2008**, 18, 1889		152
507	Highly luminescent CdTe/CdSe colloidal heteronanocrystals with temperature-dependent emission color. *Journal of the American Chemical Society*, **2007**, 129, 14880-6	16.4	152
506	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. *Angewandte Chemie*, **2003**, 115, 3493-3497	3.6	147
505	Small band gap polymers based on diketopyrrolopyrrole. *Journal of Materials Chemistry*, **2010**, 20, 2240		146
504	Crystalline-crystalline block copolymers of regioregular poly(3-hexylthiophene) and polyethylene by ring-opening metathesis polymerization. *Journal of the American Chemical Society*, **2005**, 127, 12502-3	16.4	146
503	Small band gap copolymers based on furan and diketopyrrolopyrrole for field-effect transistors and photovoltaic cells. *Journal of Materials Chemistry*, **2011**, 21, 1600-1606		145
502	Homocoupling defects in diketopyrrolopyrrole-based copolymers and their effect on photovoltaic performance. *Journal of the American Chemical Society*, **2014**, 136, 11128-33	16.4	143
501	Improved film morphology reduces charge carrier recombination into the triplet excited state in a small bandgap polymer-fullerene photovoltaic cell. *Advanced Materials*, **2010**, 22, 4321-4	24	140
500	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. *Nano Letters*, **2003**, 3, 113-117	11.5	140
499	Principles of "Majority Rules" and "Sergeants and Soldiers" Applied to the Aggregation of Optically Active Polythiophenes: Evidence for a Multichain Phenomenon. *Macromolecules*, **1999**, 32, 227-230	5.5	139
498	Copolymers of Cyclopentadithiophene and Electron-Deficient Aromatic Units Designed for Photovoltaic Applications. *Advanced Functional Materials*, **2009**, 19, 3262-3270	15.6	136
497	Triplet-state photoexcitations of oligothiophene films and solutions. *Journal of Chemical Physics*, **1994**, 101, 1787-1798	3.9	136
496	A Polystyrene-Oligothiophene-Polystyrene Triblock Copolymer. *Journal of the American Chemical Society*, **1998**, 120, 2798-2804	16.4	135
495	Inversion of Optical Activity of Chiral Polythiophene Aggregates by a Change of Solvent. *Macromolecules*, **1998**, 31, 6702-6704	5.5	134
494	Photoinduced Energy and Electron Transfer in Fullerene-Oligothiophene-Fullerene Triads. *Journal of Physical Chemistry A*, **2000**, 104, 5974-5988	2.8	133
493	Charge Trapping at the Dielectric of Organic Transistors Visualized in Real Time and Space. *Advanced Materials*, **2008**, 20, 975-979	24	130
492	Electronic memory effects in diodes from a zinc oxide nanoparticle-polystyrene hybrid material. *Applied Physics Letters*, **2006**, 89, 102103	3.4	130

491	Selective oxidation of benzene to phenol with nitrous oxide over MFI zeolites1. On the role of iron and aluminum. *Journal of Catalysis*, **2005**, 233, 123-135	7.3	130
490	Conjugation-length dependence of spin-dependent exciton formation rates in pi-conjugated oligomers and polymers. *Physical Review Letters*, **2002**, 88, 197401	7.4	129
489	Photoinduced Electron Transfer from Conjugated Polymers to TiO2. *Journal of Physical Chemistry B*, **1999**, 103, 4352-4359	3.4	129
488	Hybrid polymer solar cells based on zinc oxide. *Journal of Materials Chemistry*, **2005**, 15, 2985		128
487	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. *Advanced Materials*, **2016**, 28, 943-50	24	128
486	Substituted 2,1,3-Benzothiadiazole- And Thiophene-Based Polymers for Solar Cells Introducing a New Thermocleavable Precursor. *Chemistry of Materials*, **2009**, 21, 4669-4675	9.6	127
485	Characterization of polymer solar cells by TOF-SIMS depth profiling. *Applied Surface Science*, **2003**, 203-204, 547-550	6.7	126
484	Photovoltaic performance of an ultrasmall band gap polymer. *Organic Letters*, **2009**, 11, 903-6	6.2	123
483	Chiroptical Properties of Regioregular Chiral Polythiophenes. *Molecular Crystals and Liquid Crystals*, **1994**, 256, 439-448		123
482	Exciplex dynamics in a blend of conjugated polymers with electron donating and accepting properties: MDMO-PPV and PCNEPV. *Physical Review B*, **2005**, 72,	3.3	122
481	Singlet and triplet excitations of chiral dialkoxy-p-phenylene vinylene oligomers. *Journal of Chemical Physics*, **2000**, 112, 9445-9454	3.9	121
480	Organic Photodetectors and their Application in Large Area and Flexible Image Sensors: The Role of Dark Current. *Advanced Functional Materials*, **2020**, 30, 1904205	15.6	120
479	Mechanistic Aspects of the Suzuki Polycondensation of Thiophenebisboronic Derivatives and Diiodobenzenes Analyzed by MALDITOF Mass Spectrometry. *Macromolecules*, **2001**, 34, 5386-5393	5.5	118
478	Microstructure mobility correlation in self-organised, conjugated polymer field-effect transistors. *Synthetic Metals*, **2000**, 111-112, 129-132	3.6	116
477	Monolayer coverage and channel length set the mobility in self-assembled monolayer field-effect transistors. *Nature Nanotechnology*, **2009**, 4, 674-80	28.7	115
476	Functionalized dendritic oligothiophenes: ruthenium phthalocyanine complexes and their application in bulk heterojunction solar cells. *Journal of the American Chemical Society*, **2009**, 131, 8669-76	16.4	115
475	Morphological device model for organic bulk heterojunction solar cells. *Nano Letters*, **2009**, 9, 3032-7	11.5	115
474	High-Spin Cation Radicals ofMetaParaAniline Oligomers. *Journal of the American Chemical Society*, **1997**, 119, 4492-4501	16.4	114

473	Polymer Solar Cells: Solubility Controls Fiber Network Formation. *Journal of the American Chemical Society*, **2015**, 137, 11783-94	16.4	113
472	Reproducible resistive switching in nonvolatile organic memories. *Applied Physics Letters*, **2007**, 91, 192103	3.4	113
471	Real versus measured surface potentials in scanning Kelvin probe microscopy. *ACS Nano*, **2008**, 2, 622-6	16.7	110
470	Realization of large area flexible fullerene–conjugated polymer photocells: A route to plastic solar cells. *Synthetic Metals*, **1999**, 102, 861-864	3.6	110
469	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Core: Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. *Chemistry of Materials*, **2010**, 22, 457-466	9.6	106
468	Influence of the Position of the Side Chain on Crystallization and Solar Cell Performance of DPP-Based Small Molecules. *Chemistry of Materials*, **2014**, 26, 916-926	9.6	104
467	Origin of Work Function Modification by Ionic and Amine-Based Interface Layers. *Advanced Materials Interfaces*, **2014**, 1, 1400189	4.6	104
466	Investigation of Exciton Coupling in Oligothiophenes by Circular Dichroism Spectroscopy. *Advanced Materials*, **1998**, 10, 1343-1348	24	104
465	Supramolecular Hydrogen-Bonded Oligo(p-phenylene vinylene) Polymers This work was supported by Netherlands Organization for Scientific Research (NWO) and the Royal Netherlands Academy of Arts and Sciences. The authors thank Michel Fransen for the synthesis of the starting materials, Joost van Dongen and Xiamwen Lou for matrix-assisted laser desorption ionization time-of-flight (MALDI-TOF) MS measurements, Pascal Jonkheijm for atomic force microscopy (AFM) measurements, and Dr. Rint Sijbesma for fruitful and. *Angewandte Chemie - International Edition*, **2001**, 40, 3660-3663	16.4	103
464	Intra- and Intermolecular Photoinduced Energy and Electron Transfer between Oligothienylenevinylenes and N-Methylfulleropyrrolidine. *Journal of Physical Chemistry A*, **2002**, 106, 21-31	2.8	103
463	Advances in Solution-Processed Multijunction Organic Solar Cells. *Advanced Materials*, **2019**, 31, e1806499	24	103
462	Efficient Inverted Tandem Polymer Solar Cells with a Solution-Processed Recombination Layer. *Advanced Energy Materials*, **2012**, 2, 945-949	21.8	102
461	Photoluminescence of Self-organized Perylene Bisimide Polymers. *Macromolecular Chemistry and Physics*, **2004**, 205, 217-222	2.6	102
460	Synthesis and structure-property relationship of new donor–acceptor-type conjugated monomers and polymers on the basis of thiophene and benzothiadiazole. *Journal of Polymer Science Part A*, **2002**, 40, 251-261	2.5	100
459	Photochemical Fulleroid to Methanofullerene Conversion via the Di-.pi.-methane (Zimmerman) Rearrangement. *Journal of the American Chemical Society*, **1995**, 117, 544-545	16.4	99
458	Scanning Kelvin Probe Microscopy on Bulk Heterojunction Polymer Blends. *Advanced Functional Materials*, **2009**, 19, 1379-1386	15.6	96
457	Hole transport in polyfluorene-based sandwich-type devices: Quantitative analysis of the role of energetic disorder. *Physical Review B*, **2008**, 78,	3.3	96
456	Wide-Bandgap Benzodithiophene-Benzothiadiazole Copolymers for Highly Efficient Multijunction Polymer Solar Cells. *Advanced Materials*, **2015**, 27, 4461-4468	24	95

455	Triplet formation involving a polar transition state in a well-defined intramolecular perylenediimide dimeric aggregate. *Journal of Physical Chemistry A*, **2008**, 112, 5846-57	2.8	95
454	Optical properties of oligothiophene substituted diketopyrrolopyrrole derivatives in the solid phase: joint J- and H-type aggregation. *Journal of Physical Chemistry A*, **2012**, 116, 7927-36	2.8	94
453	Highly luminescent ultranarrow Mn doped ZnSe nanowires. *Nano Letters*, **2009**, 9, 745-50	11.5	94
452	High Open-Circuit Voltage Poly(ethynylene bithienylene):Fullerene Solar Cells. *Chemistry of Materials*, **2006**, 18, 5832-5834	9.6	93
451	Revealing buried interfaces to understand the origins of threshold voltage shifts in organic field-effect transistors. *Advanced Materials*, **2010**, 22, 5105-9	24	92
450	Discriminating between bilayer and bulk heterojunction polymer:fullerene solar cells using the external quantum efficiency. *ACS Applied Materials & Interfaces*, **2011**, 3, 3252-5	9.5	91
449	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. *Journal of the American Chemical Society*, **2016**, 138, 10782-5	16.4	90
448	Low band gap polymer bulk heterojunction solar cells. *Chemical Physics Letters*, **2006**, 422, 488-491	2.5	90
447	Monte-Carlo simulations of geminate electron□hole pair dissociation in a molecular heterojunction: a two-step dissociation mechanism. *Chemical Physics*, **2005**, 308, 125-133	2.3	90
446	Mechanism for Efficient Photoinduced Charge Separation at Disordered Organic Heterointerfaces. *Advanced Functional Materials*, **2012**, 22, 2700-2708	15.6	89
445	Redox States of Well-Defined □Conjugated Oligothiophenes Functionalized with Poly(benzyl ether) Dendrons. *Journal of the American Chemical Society*, **2000**, 122, 7042-7051	16.4	89
444	Polymer Photovoltaic Devices from Stratified Multilayers of Donor□Acceptor Blends. *Advanced Materials*, **2000**, 12, 1367-1370	24	88
443	Direct evidence of photoinduced electron transfer in conducting-polymer-C60 composites by infrared photoexcitation spectroscopy. *Physical Review B*, **1994**, 49, 5781-5784	3.3	87
442	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. *Nano Energy*, **2018**, 45, 368-379	17.1	86
441	"Double-Cable" Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. *Journal of the American Chemical Society*, **2017**, 139, 18647-18656	16.4	86
440	Synthesis and photovoltaic performance of a series of small band gap polymers. *Journal of Materials Chemistry*, **2009**, 19, 5336		86
439	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. *Angewandte Chemie - International Edition*, **2017**, 56, 148-152	16.4	85
438	Electroluminescent Cu-doped CdS Quantum Dots. *Advanced Materials*, **2009**, 21, 2916-2920	24	85

437	Helical aromatic oligoamide foldamers as organizational scaffolds for photoinduced charge transfer. *Journal of the American Chemical Society*, **2009**, 131, 4819-29	16.4	85
436	6.pi. Aromaticity in four-membered rings. *Journal of the American Chemical Society*, **1990**, 112, 4155-4164	16.4	84
435	Description of the Morphology Dependent Charge Transport and Performance of Polymer:Fullerene Bulk Heterojunction Solar Cells. *Advanced Functional Materials*, **2011**, 21, 261-269	15.6	83
434	Modeling the temperature induced degradation kinetics of the short circuit current in organic bulk heterojunction solar cells. *Applied Physics Letters*, **2010**, 96, 163301	3.4	82
433	Electronic memory effects in diodes of zinc oxide nanoparticles in a matrix of polystyrene or poly(3-hexylthiophene). *Journal of Applied Physics*, **2007**, 102, 083701	2.5	82
432	Photoinduced electron transfer in a mesogenic donor-acceptor-donor system. *Chemistry - A European Journal*, **2002**, 8, 4470-4	4.8	81
431	Measuring the External Quantum Efficiency of Two-Terminal Polymer Tandem Solar Cells. *Advanced Functional Materials*, **2010**, 20, 3904-3911	15.6	80
430	The relationship between nanoscale architecture and function in photovoltaic multichromophoric arrays as visualized by Kelvin probe force microscopy. *Journal of the American Chemical Society*, **2008**, 130, 14605-14	16.4	80
429	Energy and Electron Transfer in a Poly(fluorene-alt-phenylene) Bearing Perylenediimides as Pendant Electron Acceptor Groups. *Macromolecules*, **2007**, 40, 2760-2772	5.5	80
428	Orientational effect on the photophysical properties of quaterthiophene-C60 dyads. *Chemistry - A European Journal*, **2002**, 8, 5415-29	4.8	80
427	Copolymers of diketopyrrolopyrrole and thienothiophene for photovoltaic cells. *Journal of Materials Chemistry*, **2011**, 21, 9224		79
426	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. *Advanced Energy Materials*, **2011**, 1, 90-96	21.8	78
425	High-Performance and Stable All-Polymer Solar Cells Using Donor and Acceptor Polymers with Complementary Absorption. *Advanced Energy Materials*, **2017**, 7, 1602722	21.8	77
424	8.0% Efficient All-Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. *Advanced Energy Materials*, **2018**, 8, 1700908	21.8	76
423	Synthesis and properties of small band gap thienoisoindigo based conjugated polymers. *Journal of Materials Chemistry*, **2012**, 22, 20387		76
422	Unusual thermoelectric behavior indicating a hopping to bandlike transport transition in pentacene. *Physical Review Letters*, **2012**, 109, 016601	7.4	76
421	Electrically Rewritable Memory Cells from Poly(3-hexylthiophene) Schottky Diodes. *Advanced Materials*, **2005**, 17, 1169-1173	24	76
420	Efficient Polymer Solar Cells on Opaque Substrates with a Laminated PEDOT:PSS Top Electrode. *Advanced Energy Materials*, **2013**, 3, 782-787	21.8	75

419	Diketopyrrolopyrroles as acceptor materials in organic photovoltaics. *Macromolecular Rapid Communications*, **2010**, 31, 1554-9	4.8	75
418	Negative capacitances in low-mobility solids. *Physical Review B*, **2005**, 72,	3.3	75
417	An Electron-Deficient Discotic Liquid-Crystalline Material. *Chemistry of Materials*, **2001**, 13, 2675-2679	9.6	75
416	Insights into Fullerene Passivation of SnO2 Electron Transport Layers in Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1905883	15.6	74
415	Measuring the light emission profile in organic light-emitting diodes with nanometre spatial resolution. *Nature Photonics*, **2010**, 4, 329-335	33.9	74
414	Kinetic Monte Carlo Study of the Sensitivity of OLED Efficiency and Lifetime to Materials Parameters. *Advanced Functional Materials*, **2015**, 25, 2024-2037	15.6	73
413	Concentration-Dependent Thermochromism and Supramolecular Aggregation in Solution of Triblock Copolymers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons. *Macromolecules*, **2000**, 33, 7038-7043	5.5	73
412	Simultaneous Open-Circuit Voltage Enhancement and Short-Circuit Current Loss in Polymer: Fullerene Solar Cells Correlated by Reduced Quantum Efficiency for Photoinduced Electron Transfer. *Advanced Energy Materials*, **2013**, 3, 85-94	21.8	72
411	Donor-functionalized polydentate pyrylium salts and phosphinines: synthesis, structural characterization, and photophysical properties. *Chemistry - A European Journal*, **2007**, 13, 4548-59	4.8	72
410	Sensitization of low bandgap polymer bulk heterojunction solar cells. *Thin Solid Films*, **2002**, 403-404, 373-379	2.2	71
409	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. *Macromolecules*, **2016**, 49, 6445-6454	5.5	70
408	Comparing random and regular diketopyrrolopyrrole–bithiophene–thienopyrrolodione terpolymers for organic photovoltaics. *Journal of Materials Chemistry A*, **2014**, 2, 17899-17905	13	70
407	Charge recombination in a poly(para-phenylene vinylene)-fullerene derivative composite film studied by transient, nonresonant, hole-burning spectroscopy. *Journal of Chemical Physics*, **2003**, 119, 10924-10929	3.9	70
406	Hole transport in the organic small molecule material –NPD: evidence for the presence of correlated disorder. *Journal of Applied Physics*, **2010**, 107, 113710	2.5	69
405	Comparison of the chain length dependence of the singlet- and triplet-excited states of oligofluorenes. *Chemical Physics Letters*, **2005**, 411, 273-277	2.5	69
404	Electron and energy transfer processes of photoexcited oligothiophenes onto tetracyanoethylene and C60. *Journal of Chemical Physics*, **1994**, 101, 9519-9527	3.9	69
403	2-Methoxyethanol as a new solvent for processing methylammonium lead halide perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 2346-2354	13	68
402	High Performance Polymer Nanowire Field-Effect Transistors with Distinct Molecular Orientations. *Advanced Materials*, **2015**, 27, 4963-8	24	68

401	Salt Concentration Effects in Planar Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2011**, 21, 1795-1802	15.6	66
400	Effect of side chain length on the charge transport, morphology, and photovoltaic performance of conjugated polymers in bulk heterojunction solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 1855-1866	10	65
399	Charge transport in amorphous InGaZnO thin-film transistors. *Physical Review B*, **2012**, 86,	3.3	65
398	Effect of PCBM on the Photodegradation Kinetics of Polymers for Organic Photovoltaics. *Chemistry of Materials*, **2012**, 24, 4397-4405	9.6	65
397	Influence of Photon Excess Energy on Charge Carrier Dynamics in a Polymer-Fullerene Solar Cell. *Advanced Energy Materials*, **2012**, 2, 1095-1099	21.8	65
396	N2O Decomposition over Fe/ZSM-5: Effect of High-Temperature Calcination and Steaming. *Catalysis Letters*, **2002**, 81, 205-212	2.8	65
395	Crowned dendrimers: pH-responsive pseudorotaxane formation. *Journal of Organic Chemistry*, **2003**, 68, 2385-9	4.2	65
394	Five Generations of Nitroxyl-Functionalized Dendrimers. *Macromolecules*, **1997**, 30, 3606-3611	5.5	64
393	An oligomer study on small band gap polymers. *Journal of Physical Chemistry A*, **2008**, 112, 10764-73	2.8	64
392	Dimers of End-Capped Oligopyrrole Cation Radicals. *Angewandte Chemie International Edition in English*, **1996**, 35, 638-640		64
391	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. *Chemistry of Materials*, **2017**, 29, 7073-7077	9.6	63
390	Wide band gap diketopyrrolopyrrole-based conjugated polymers incorporating biphenyl units applied in polymer solar cells. *Chemical Communications*, **2014**, 50, 679-81	5.8	62
389	PbSe nanocrystal network formation during pyridine ligand displacement. *ACS Applied Materials & Interfaces*, **2009**, 1, 244-50	9.5	62
388	Phosphorescence and triplet state energies of oligothiophenes. *Journal of Physical Chemistry B*, **2005**, 109, 4410-5	3.4	62
387	Singlet-energy transfer in quadruple hydrogen-bonded oligo(p-phenylenevinylene)fullerene dyads. *Journal of Materials Chemistry*, **2002**, 12, 2054-2060		62
386	Low-bandgap polymer photovoltaic cells. *Synthetic Metals*, **2001**, 121, 1587-1588	3.6	62
385	Concerning the Localization of End Groups in Dendrimers. *Journal of the American Chemical Society*, **1998**, 120, 8547-8548	16.4	62
384	Monte Carlo study of efficiency roll-off of phosphorescent organic light-emitting diodes: Evidence for dominant role of triplet-polaron quenching. *Applied Physics Letters*, **2014**, 105, 143303	3.4	61

383	Triple junction polymer solar cells for photoelectrochemical water splitting. *Advanced Materials*, **2013**, 25, 2932-6	24	61
382	Relaxation of photo-excitations in films of oligo- and poly-(para-phenylene vinylene) derivatives. *Chemical Physics*, **2000**, 260, 415-439	2.3	61
381	Photoinduced electron transfer reactions in mixed films of Econjugated polymers and a homologous series of tetracyano-p-quinodimethane derivatives. *Journal of Chemical Physics*, **1995**, 103, 8840-8845	3.9	61
380	Electronic structure of small band gap oligomers based on cyclopentadithiophenes and acceptor units. *Journal of Materials Chemistry*, **2009**, 19, 5343		59
379	Enhanced intersystem crossing via a high energy charge transfer state in a perylenediimide-perylenemonoimide dyad. *Journal of Physical Chemistry A*, **2008**, 112, 8617-32	2.8	59
378	Charge Separation and Recombination in Photoexcited Oligo(p-phenylene vinylene): Perylene Bisimide Arrays Close to the Marcus Inverted Region. *Journal of Physical Chemistry A*, **2004**, 108, 6933-6937	2.8	59
377	Electronic Memory Effects in a SexithiophenePoly(ethylene oxide) Block Copolymer Doped with NaCl. Combined Diode and Resistive Switching Behavior. *Chemistry of Materials*, **2006**, 18, 2707-2712	9.6	58
376	Donor-acceptor polymers: a conjugated oligo(p-phenylene vinylene) main chain with dangling perylene bisimides. *Chemistry - A European Journal*, **2004**, 10, 3907-18	4.8	58
375	Photoinduced electron transfer from Econjugated polymers onto Buckminsterfullerene, fulleroids, and methanofullerenes. *Journal of Chemical Physics*, **1995**, 103, 788-793	3.9	58
374	Formation of metastable charges as a first step in photoinduced degradation in Econjugated polymer:fullerene blends for photovoltaic applications. *Organic Electronics*, **2011**, 12, 1657-1662	3.5	57
373	Thermal Stability of Poly[2-methoxy-5-(2?-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV):Fullerene Bulk Heterojunction Solar Cells. *Macromolecules*, **2011**, 44, 8470-8478	5.5	57
372	Photoinduced energy and electron transfer in oligo(p-phenylene vinylene)-fullerene dyads. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 41-46	2.6	57
371	Supramolecular control over donor-acceptor photoinduced charge separation. *Journal of the American Chemical Society*, **2004**, 126, 9630-44	16.4	57
370	The interfaces of poly(p-phenylene vinylene) and fullerene derivatives with Al, LiF, and Al/LiF studied by secondary ion mass spectroscopy and x-ray photoelectron spectroscopy: Formation of AlF3 disproved. *Journal of Chemical Physics*, **2002**, 117, 5031-5035	3.9	57
369	Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells. *Journal of Physical Chemistry B*, **2001**, 105, 11106-11113	3.4	57
368	Well-Defined Metallodendrimers by Site-Specific Complexation. *Chemische Berichte*, **1997**, 130, 725-728		56
367	Temperature-dependent built-in potential in organic semiconductor devices. *Applied Physics Letters* , **2006**, 88, 192108	3.4	56
366	The importance of nanoscopic ordering on the kinetics of photoinduced charge transfer in aggregated pi-conjugated hydrogen-bonded donor-acceptor systems. *Journal of Physical Chemistry B*, **2006**, 110, 16967-78	3.4	56

365	Stable Triplet-State Di(Cation Radicals) of a Meta-Para Aniline Oligomer by Acid Doping. *Journal of the American Chemical Society*, **1996**, 118, 10626-10628	16.4	56
364	Device Performance of Emerging Photovoltaic Materials (Version 1). *Advanced Energy Materials*, **2021**, 11, 2002774	21.8	56
363	Enhancement-Mode PEDOT:PSS Organic Electrochemical Transistors Using Molecular De-Doping. *Advanced Materials*, **2020**, 32, e2000270	24	55
362	Full temporal resolution of the two-step photoinduced energy-electron transfer in a fullerene-oligothiophene-fullerene triad using sub-10 fs pump-probe spectroscopy. *Chemical Physics Letters*, **2001**, 345, 33-38	2.5	55
361	Relating Frontier Orbital Energies from Voltammetry and Photoelectron Spectroscopy to the Open-Circuit Voltage of Organic Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1803677	21.8	54
360	Dynamic Processes in Sandwich Polymer Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2012**, 22, 4547-4556	15.6	54
359	Photogeneration and decay of charge carriers in hybrid bulk heterojunctions of ZnO nanoparticles and conjugated polymers. *Journal of Physical Chemistry B*, **2006**, 110, 10315-21	3.4	54
358	Dichotomous Role of Exciting the Donor or the Acceptor on Charge Generation in Organic Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 10026-31	16.4	53
357	Diketopyrrolopyrrole-based acceptor polymers for photovoltaic application. *Physical Chemistry Chemical Physics*, **2011**, 13, 8931-9	3.6	52
356	Fractal-like self-assembly of oligo(p-phenylene vinylene) capped gold nanoparticles. *Journal of the American Chemical Society*, **2006**, 128, 686-7	16.4	52
355	Photoinduced electron transfer processes in oligothiophene/C60 composite films. *Journal of Chemical Physics*, **1995**, 102, 2628-2635	3.9	52
354	Photoelectrochemical water splitting in an organic artificial leaf. *Journal of Materials Chemistry A*, **2015**, 3, 23936-23945	13	51
353	Synthesis and characterization of long perylenediimide polymer fibers: from bulk to the single-molecule level. *Journal of Physical Chemistry B*, **2006**, 110, 7803-12	3.4	51
352	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. *Macromolecules*, **2019**, 52, 4464-4474	5.5	50
351	Effect of Extended Thiophene Segments in Small Band Gap Polymers with Thienopyrazine. *Chemistry of Materials*, **2009**, 21, 1663-1669	9.6	50
350	Stability studies and degradation analysis of plastic solar cell materials by FTIR spectroscopy. *Synthetic Metals*, **1999**, 102, 1002-1003	3.6	50
349	Fundamental Tradeoff between Emission Intensity and Efficiency in Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2015**, 25, 3066-3073	15.6	49
348	Designing Acceptor Polymers for Organic Photovoltaic Devices. *Journal of Physical Chemistry C*, **2011**, 115, 3178-3187	3.8	49

347	Probing Charge Carrier Density in a Layer of Photodoped ZnO Nanoparticles by Spectroscopic Ellipsometry. *Journal of Physical Chemistry C*, **2010**, 114, 14804-14810	3.8	49
346	The influence of side chains on solubility and photovoltaic performance of dithiopheneThienopyrazine small band gap copolymers. *Polymer*, **2009**, 50, 4564-4570	3.9	49
345	High-resolution electronic spectra of ethylenedioxythiophene oligomers. *Journal of the American Chemical Society*, **2006**, 128, 17007-17	16.4	49
344	Two-step mechanism for the photoinduced intramolecular electron transfer in oligo(p-phenylene vinylene)-fullerene dyads. *Physical Review B*, **2001**, 64,	3.3	49
343	Organic electronic ratchets doing work. *Nature Materials*, **2011**, 10, 51-5	27	48
342	Charge separation and (triplet) recombination in diketopyrrolopyrrole-fullerene triads. *Photochemical and Photobiological Sciences*, **2010**, 9, 1055-65	4.2	48
341	Photoinduced Electron Transfer in Heterosupramolecular Assemblies of TiO2 Nanoparticles and Terthiophene Carboxylic Acid in Apolar Solvents. *Advanced Functional Materials*, **2002**, 12, 519	15.6	48
340	In-Situ Compositional and Structural Analysis of Plastic Solar Cells. *Advanced Functional Materials*, **2002**, 12, 665-669	15.6	48
339	Monitoring Thermal Annealing of Perovskite Solar Cells with In Situ Photoluminescence. *Advanced Energy Materials*, **2017**, 7, 1601822	21.8	47
338	Conjugated oligothienyl dendrimers based on a pyrazino[2,3-g]quinoxaline core. *Organic Letters*, **2009**, 11, 4500-3	6.2	47
337	Synthesis, Characterization, and Electrooptical Properties of a New Alternating N-DodecylpyroleBenzothiadiazole Copolymer. *Macromolecules*, **2001**, 34, 2495-2501	5.5	47
336	Dimers of Prototype High-Spin Polaronic Oligomers. *Chemistry of Materials*, **1998**, 10, 1166-1175	9.6	47
335	Chiroptical properties of poly{2, 5-bis[(S)-2-methylbutoxy]-1, 4-phenylene vinylene}. *Advanced Materials*, **1997**, 9, 493-496	24	46
334	Relating Substitution to Single-Chain Conformation and Aggregation in Poly(p-phenylene Vinylene) Films. *Nano Letters*, **2003**, 3, 1191-1196	11.5	46
333	End-group modification of regioregular poly(3-alkylthiophene)s. *Chemical Communications*, **2000**, 81-82	5.8	46
332	Photoinduced absorption of conjugated polymer/C60 solutions: Evidence of triplet-state photoexcitations and triplet-energy transfer in poly(3-alkylthiophene). *Journal of Chemical Physics*, **1994**, 100, 8641-8645	3.9	46
331	Near-Infrared Tandem Organic Photodiodes for Future Application in Artificial Retinal Implants. *Advanced Materials*, **2018**, 30, e1804678	24	46
330	Aqueous Nanoparticle Polymer Solar Cells: Effects of Surfactant Concentration and Processing on Device Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 13380-13389	9.5	44

329	Large-area soft-imprinted nanowire networks as light trapping transparent conductors. *Scientific Reports*, **2015**, 5, 11414	4.9	44
328	Highly Efficient Perovskite Solar Cells Using Non-Toxic Industry Compatible Solvent System. *Solar Rrl*, **2017**, 1, 1700091	7.1	44
327	A regioregular terpolymer comprising two electron-deficient and one electron-rich unit for ultra small band gap solar cells. *Chemical Communications*, **2015**, 51, 4290-3	5.8	44
326	Tetrafullerene conjugates for all-organic photovoltaics. *Journal of Organic Chemistry*, **2008**, 73, 3189-96	4.2	44
325	Field and temperature dependence of the photocurrent in polymer/fullerene bulk heterojunction solar cells. *Applied Physics Letters*, **2005**, 87, 122104	3.4	44
324	High-photovoltage all-polymer solar cells based on a diketopyrrolopyrrole–isoindigo acceptor polymer. *Journal of Materials Chemistry A*, **2017**, 5, 11693-11700	13	43
323	Controlling the Dominant Length Scale of Liquid–Liquid Phase Separation in Spin-coated Organic Semiconductor Films. *Advanced Functional Materials*, **2015**, 25, 855-863	15.6	43
322	Impact of polymorphism on the optoelectronic properties of a low-bandgap semiconducting polymer. *Nature Communications*, **2019**, 10, 2867	17.4	43
321	Quasi-One Dimensional in-Plane Conductivity in Filamentary Films of PEDOT:PSS. *Advanced Functional Materials*, **2013**, 23, 5778-5786	15.6	43
320	Energy transfer in hybrid quantum dot light-emitting diodes. *Journal of Applied Physics*, **2008**, 104, 013108	2.5	43
319	Singlet-energy transfer in quadruple hydrogen-bonded oligo(p-phenylenevinylene)perylene-diimide dyads. *Organic and Biomolecular Chemistry*, **2003**, 1, 198-203	3.9	43
318	Characterization of tandem organic solar cells. *Nature Photonics*, **2015**, 9, 478-479	33.9	42
317	Thiophene Rings Improve the Device Performance of Conjugated Polymers in Polymer Solar Cells with Thick Active Layers. *Advanced Energy Materials*, **2017**, 7, 1700519	21.8	42
316	Quantification and Validation of the Efficiency Enhancement Reached by Application of a Retroreflective Light Trapping Texture on a Polymer Solar Cell. *Advanced Energy Materials*, **2013**, 3, 1013-1017	21.8	42
315	Synthesis of regioregular poly(3-octylthiophene)s via Suzuki polycondensation and end-group analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. *Journal of Polymer Science Part A*, **2005**, 43, 1454-1462	2.5	42
314	Odd–even effect in optically active poly(3,4-dialkoxythiophene). *Chemical Communications*, **1999**, 791-792	5.8	42
313	Maximizing the open-circuit voltage of polymer: Fullerene solar cells. *Applied Physics Letters*, **2010**, 97, 073304	3.4	41
312	Open-Circuit Voltage Limitation in Low-Bandgap Diketopyrrolopyrrole-Based Polymer Solar Cells Processed from Different Solvents. *Journal of Physical Chemistry C*, **2011**, 115, 15075-15080	3.8	41

311	The use of the focused ion beam technique to prepare cross-sectional transmission electron microscopy specimen of polymer solar cells deposited on glass. *Polymer*, **2002**, 43, 7493-7496	3.9	41
310	Interchain Delocalization of Photoinduced Neutral and Charged States in Nanoaggregates of Lengthy Oligothiophenes. *Journal of the American Chemical Society*, **2001**, 123, 6916-6924	16.4	41
309	On the Origin of Dark Current in Organic Photodiodes. *Advanced Optical Materials*, **2020**, 8, 1901568	8.1	41
308	C(60)-exTTF-C(60) Dumbbells: cooperative effects stemming from two C(60)s on the radical ion pair stabilization. *Organic Letters*, **2005**, 7, 1691-4	6.2	40
307	Synthesis, optical, and electrochemical properties of novel copolymers on the basis of benzothiadiazole and electron-rich arene units. *Journal of Polymer Science Part A*, **2002**, 40, 2360-2372	2.5	40
306	Surface Directed Phase Separation of Semiconductor Ferroelectric Polymer Blends and their Use in Non-Volatile Memories. *Advanced Functional Materials*, **2015**, 25, 278-286	15.6	39
305	Fast ambipolar integrated circuits with poly(diketopyrrolopyrrole- terthiophene). *Applied Physics Letters*, **2011**, 98, 203301	3.4	39
304	Photoinduced Multistep Energy and Electron Transfer in an Oligoaniline□Oligo(p-phenylene vinylene)□Fullerene Triad. *Journal of Physical Chemistry A*, **2003**, 107, 9269-9283	2.8	37
303	Injection-limited electron current in a methanofullerene. *Journal of Applied Physics*, **2003**, 94, 4477-4479	2.5	37
302	Nanoscale Organic Ferroelectric Resistive Switches. *Journal of Physical Chemistry C*, **2014**, 118, 3305-3312	3.8	36
301	Electron transport in polyfluorene-based sandwich-type devices: Quantitative analysis of the effects of disorder and electron traps. *Physical Review B*, **2009**, 80,	3.3	36
300	Resistive Switching in Organic Memories with a Spin-Coated Metal Oxide Nanoparticle Layer. *Journal of Physical Chemistry C*, **2008**, 112, 5254-5257	3.8	36
299	Spacer length dependence of photoinduced electron transfer in heterosupramolecular assemblies of TiO2 nanoparticles and terthiophene. *Journal of Materials Chemistry*, **2004**, 14, 2795		36
298	Scanning tunneling spectroscopy on organic semiconductors: Experiment and model. *Physical Review B*, **2004**, 70,	3.3	36
297	Doping dynamics in light-emitting electrochemical cells. *Organic Electronics*, **2011**, 12, 1746-1753	3.5	35
296	A novel high-contrast ratio electrochromic material from spiro[cyclododecane-1,9?-fluorene]bicarbazole. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 333-341	2.6	35
295	On the origin of small band gaps in alternating thiophene-thienopyrazine oligomers. *Journal of Physical Chemistry A*, **2009**, 113, 10343-50	2.8	35
294	Analysis of hole transport in a polyfluorene-based copolymer□evidence for the absence of correlated disorder. *Applied Physics Letters*, **2009**, 94, 163307	3.4	35

293	Dual-emissive quantum dots for multispectral intraoperative fluorescence imaging. *Biomaterials*, **2010**, 31, 6823-32	15.6	35
292	Light harvesting tetrafullerene nanoarray for organic solar cells. *Chemical Communications*, **2006**, 514-6	5.8	35
291	Polymer–polymer solar cells with a near-infrared spectral response. *Journal of Materials Chemistry A*, **2015**, 3, 6756-6760	13	34
290	Highly Efficient Hybrid Polymer and Amorphous Silicon Multijunction Solar Cells with Effective Optical Management. *Advanced Materials*, **2016**, 28, 2170-7	24	34
289	Effect of structure on the solubility and photovoltaic properties of bis-diketopyrrolopyrrole molecules. *Journal of Materials Chemistry A*, **2013**, 1, 15150	13	34
288	Depositing Fullerenes in Swollen Polymer Layers via Sequential Processing of Organic Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500464	21.8	34
287	The effect of bias light on the spectral responsivity of organic solar cells. *Organic Electronics*, **2012**, 13, 3284-3290	3.5	34
286	High-Molecular-Weight Regular Alternating Diketopyrrolopyrrole-based Terpolymers for Efficient Organic Solar Cells. *Angewandte Chemie*, **2013**, 125, 8499-8502	3.6	34
285	Shape-persistent oligothienylene-ethynylene-based dendrimers: synthesis, spectroscopy and electrochemical characterization. *Chemistry - A European Journal*, **2009**, 15, 13521-34	4.8	34
284	Charge Transfer Kinetics in Fullerene–Oligomer–Fullerene Triads Containing Alkylpyrrole Units. *Journal of Physical Chemistry A*, **2003**, 107, 6218-6224	2.8	34
283	Ferromagnetic spin alignment in head-to-tail coupled oligo(1, 4-phenyleneethynylene)s and Oligo(1,4-phenylenevinylene)s bearing pendant p-phenylenediamine radical cations. *Journal of Organic Chemistry*, **2000**, 65, 5712-9	4.2	34
282	Photoluminescence quenching in films of conjugated polymers by electrochemical doping. *Physical Review B*, **2014**, 89,	3.3	33
281	All-solution-processed organic solar cells with conventional architecture. *Solar Energy Materials and Solar Cells*, **2013**, 117, 267-272	6.4	33
280	Preferential hetero-dimer formation and equilibrium dynamics of self-complementary bifunctional oligo(p-phenylenevinylene) and C60 ureido-pyrimidinone derivatives in solution. *Chemical Communications*, **2002**, 2888-9	5.8	33
279	Polarized photoluminescence of oligothiophenes in nematic liquid crystalline matrices. *Advanced Materials*, **1996**, 8, 651-654	24	33
278	Ambipolar Organic Tri-Gate Transistor for Low-Power Complementary Electronics. *Advanced Materials*, **2016**, 28, 284-90	24	33
277	High balanced ambipolar charge carrier mobility in benzodipyrrolidone conjugated polymers. *Journal of Materials Chemistry C*, **2014**, 2, 731-735	7.1	32
276	Phosphorescent resonant energy transfer between iridium complexes. *Journal of Physical Chemistry A*, **2007**, 111, 1381-8	2.8	32

275	Photoinduced Multistep Electron Transfer in an Oligoaniline□Oligo(p-phenylene Vinylene)□Perylene Diimide Molecular Array. *Journal of Physical Chemistry A*, **2004**, 108, 8201-8211	2.8	32
274	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. *Angewandte Chemie - International Edition*, **2020**, 59, 846-852	16.4	32
273	Accurate description of charge transport in organic field effect transistors using an experimentally extracted density of states. *Physical Review B*, **2012**, 85,	3.3	31
272	Influence of injected charge carriers on photocurrents in polymer solar cells. *Physical Review B*, **2012**, 85,	3.3	31
271	Band Gap Control in Diketopyrrolopyrrole-Based Polymer Solar Cells Using Electron Donating Side Chains. *Advanced Energy Materials*, **2013**, 3, 674-679	21.8	31
270	Fused ring thiophene-based poly(heteroarylene ethynylene)s for organic solar cells. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1759-1766	6.4	31
269	Circular differential scattering of light in films of chiral polyfluorene. *Journal of Physical Chemistry B* , **2007**, 111, 5124-31	3.4	31
268	On the efficiency of polymer solar cells. *Nature Materials*, **2007**, 6, 704; author reply 704-5	27	31
267	Solvent mediated intramolecular photoinduced electron transfer in a fluorene-perylene bisimide derivative. *Journal of Physical Chemistry A*, **2006**, 110, 12363-71	2.8	31
266	TiO2 sensitized with an oligo(p-phenylenevinylene) carboxylic acid: a new model compound for a hybrid solar cell. *Journal of Materials Chemistry*, **2003**, 13, 1054-1057		31
265	Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1702033	21.8	30
264	Small band gap oligothieno[3,4-b]pyrazines. *Organic Letters*, **2008**, 10, 3513-6	6.2	30
263	Photoinduced charge and energy transfer in dye-doped conjugated polymers. *Thin Solid Films*, **2006** , 511-512, 581-586	2.2	30
262	True ferroelectric switching in thin films of trialkylbenzene-1,3,5-tricarboxamide (BTA). *Physical Chemistry Chemical Physics*, **2016**, 18, 23663-72	3.6	30
261	Pulse-modulated multilevel data storage in an organic ferroelectric resistive memory diode. *Scientific Reports*, **2016**, 6, 24407	4.9	29
260	Broadening the absorption of conjugated polymers by "click" functionalization with phthalocyanines. *Dalton Transactions*, **2011**, 40, 3979-88	4.3	29
259	On the width of the recombination zone in ambipolar organic field effect transistors. *Applied Physics Letters*, **2008**, 93, 033312	3.4	29
258	Side chain mediated electronic contact between a tetrahydro-4H-thiopyran-4-ylidene-appended polythiophene and CdTe quantum dots. *Chemistry - A European Journal*, **2006**, 12, 8075-83	4.8	29

257	Substitution and Preparation Effects on the Molecular-Scale Morphology of PPV Films. *Macromolecules*, **2005**, 38, 7784-7792	5.5	29
256	Thermally Induced Transient Absorption of Light by Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonic acid) (PEDOT:PSS) Films: A Way to Probe Charge-Carrier Thermalization Processes. *Advanced Functional Materials*, **2003**, 13, 805-810	15.6	29
255	Effect of Förster-mediated triplet-polaron quenching and triplet-triplet annihilation on the efficiency roll-off of organic light-emitting diodes. *Journal of Applied Physics*, **2016**, 119, 163102	2.5	29
254	Morphology and Efficiency: The Case of Polymer/ZnO Solar Cells. *Advanced Energy Materials*, **2013**, 3, 615-621	21.8	28
253	Relation between the built-in voltage in organic light-emitting diodes and the zero-field voltage as measured by electroabsorption. *Physical Review B*, **2010**, 81,	3.3	28
252	Sub-Micrometer Structure Formation during Spin Coating Revealed by Time-Resolved In Situ Laser and X-Ray Scattering. *Advanced Functional Materials*, **2017**, 27, 1702516	15.6	27
251	Electron transport in the organic small-molecule material BAlq: the role of correlated disorder and traps. *Organic Electronics*, **2010**, 11, 1408-1413	3.5	27
250	Triplet formation from the charge-separated state in blends of MDMO-PPV with cyano-containing acceptor polymers. *Thin Solid Films*, **2006**, 511-512, 333-337	2.2	27
249	Structure–property relationships for bis-diketopyrrolopyrrole molecules in organic photovoltaics. *Journal of Materials Chemistry A*, **2016**, 4, 10532-10541	13	26
248	Surface Modification of Zinc Oxide Nanoparticles Influences the Electronic Memory Effects in ZnO–Polystyrene Diodes. *Journal of Physical Chemistry C*, **2007**, 111, 10150-10153	3.8	26
247	High aspect ratio surface relief structures by photoembossing. *Applied Physics Letters*, **2007**, 91, 174103	3.4	26
246	Control of Film Morphology by Folding Hydrogen-Bonded Oligo(p-phenylenevinylene) Polymers in Solution. *Macromolecules*, **2006**, 39, 784-788	5.5	26
245	Photoinduced intermolecular electron transfer between oligo(p-phenylene vinylene)s and N-methylfulleropyrrolidine in a polar solvent. *Chemical Physics Letters*, **2000**, 328, 403-408	2.5	26
244	Triplet radical pairs of 3-carboxyproxyl encapsulated in a dendritic box. *Advanced Materials*, **1995**, 7, 561-564	24	26
243	Effects of Cross-Conjugation on the Optical Absorption and Frontier Orbital Levels of Donor–Acceptor Polymers. *Macromolecules*, **2015**, 48, 2435-2443	5.5	25
242	All-Oxide MoOx/SnOx Charge Recombination Interconnects for Inverted Organic Tandem Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702533	21.8	25
241	The effect of oxygen on the efficiency of planar p-i-n metal halide perovskite solar cells with a PEDOT:PSS hole transport layer. *Journal of Materials Chemistry A*, **2018**, 6, 6882-6890	13	25
240	High open circuit voltage polymer solar cells enabled by employing thiazoles in semiconducting polymers. *Polymer Chemistry*, **2016**, 7, 5730-5738	4.9	25

239	Charge transfer state energy in ternary bulk-heterojunction polymer–fullerene solar cells. *Journal of Photonics for Energy*, **2014**, 5, 057203	1.2	25
238	Energy Transfer and Polarized Emission in Cadmium Selenide Nanocrystal Solids with Mixed Dimensionality. *Advanced Functional Materials*, **2007**, 17, 3829-3835	15.6	25
237	Manipulating the Local Light Emission in Organic Light-Emitting Diodes by using Patterned Self-Assembled Monolayers. *Advanced Materials*, **2008**, 20, 2703-6	24	25
236	Pathways for Resonant Energy Transfer in Oligo(phenylenevinylene)–Fullerene Dyads: An Atomistic Model. *Advanced Materials*, **2006**, 18, 1301-1306	24	25
235	Structure of 6.pi.-electron four-membered rings containing second-row atoms. *The Journal of Physical Chemistry*, **1993**, 97, 6384-6397		25
234	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2001589	21.8	25
233	Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. *Journal of Materials Chemistry A*, **2016**, 4, 7736-7745	13	25
232	Redox states and associated interchain processes of thienylenevinylene oligomers. *Chemistry - A European Journal*, **2000**, 6, 1698-707	4.8	25
231	Simulating Phase Separation during Spin Coating of a Polymer–Fullerene Blend: A Joint Computational and Experimental Investigation. *ACS Applied Energy Materials*, **2018**, 1, 725-735	6.1	24
230	Synthesis and Photovoltaic Performance of Pyrazinoquinoxaline Containing Conjugated Thiophene-Based Dendrimers and Polymers. *Macromolecules*, **2013**, 46, 2141-2151	5.5	24
229	Predictive modeling of the current density and radiative recombination in blue polymer-based light-emitting diodes. *Journal of Applied Physics*, **2011**, 109, 064502	2.5	24
228	Core-functionalized dendritic oligothiophenes–novel donor–acceptor systems. *Journal of Materials Chemistry*, **2009**, 19, 4784		24
227	Time delayed collection field experiments on polymer: Fullerene bulk-heterojunction solar cells. *Journal of Applied Physics*, **2006**, 100, 074509	2.5	24
226	Stable triplet-state di(cation radical)s of a N-phenylaniline oligomer. *Chemical Communications*, **1996**, 267	5.8	24
225	Structure of C3v phosphoranyl and C4v phosphorane anion radicals. A quantum-chemical study. *Journal of the American Chemical Society*, **1984**, 106, 3429-3437	16.4	24
224	Multi-bit organic ferroelectric memory. *Organic Electronics*, **2013**, 14, 3399-3405	3.5	23
223	Synthesis and optical properties of pyrrolo[3,2-b]pyrrole-2,5(1H,4H)-dione (iDPP)-based molecules. *Journal of Physical Chemistry A*, **2013**, 117, 2782-9	2.8	23
222	A poly(p-phenylene ethynylene vinylene) with pendant fullerenes. *Synthetic Metals*, **2001**, 119, 171-172	3.6	23

221	Optimized light-driven electrochemical water splitting with tandem polymer solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 5107-5114	13	22
220	Light Emission in the Unipolar Regime of Ambipolar Organic Field-Effect Transistors. *Advanced Functional Materials*, **2013**, 23, 4133-4139	15.6	22
219	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. *Angewandte Chemie*, **2017**, 129, 154-158	3.6	22
218	Intramolecular excimer formation between 3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione chromophoric groups linked by a flexible alkyl spacer. *Journal of Physical Chemistry A*, **2013**, 117, 4828-37	2.8	22
217	The Curious Out-of-Plane Conductivity of PEDOT:PSS. *Advanced Functional Materials*, **2013**, 23, 5787-5793	15.6	22
216	Determination of the exciton singlet-to-triplet ratio in single-layer organic light-emitting diodes. *Physical Review B*, **2011**, 83,	3.3	22
215	Cluster synthesis of branched CdTe nanocrystals for use in light-emitting diodes. *Nanotechnology*, **2008**, 19, 205602	3.4	22
214	Electro-optical Properties of Neutral and Radical Ion Thienosquaraines. *Chemistry - A European Journal*, **2016**, 22, 10179-86	4.8	22
213	The Impact of Device Polarity on the Performance of Polymer:Fullerene Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800550	21.8	22
212	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. *Organic Electronics*, **2013**, 14, 523-534	3.5	21
211	Connecting scanning tunneling spectroscopy to device performance for polymer:fullerene organic solar cells. *ACS Nano*, **2010**, 4, 1385-92	16.7	21
210	Synthesis and photophysical properties of conjugated polymers with pendant 9,10-anthraquinone units. *Journal of Physical Chemistry B*, **2008**, 112, 4953-60	3.4	21
209	Synthesis and characterization of new copolymers of thiophene and vinylene: Poly(thienylenevinylene)s and poly(terthienylenevinylene)s with thioether side chains. *Journal of Polymer Science Part A*, **1999**, 37, 4629-4639	2.5	21
208	Photoinduced electron transfer from conjugated polymers onto TiO2. *Synthetic Metals*, **1999**, 101, 265-266	3.6	21
207	The chiroptical properties of chiral substituted poly[3-((3S)-3,7-dimethyloctyl)thiophene] as a function of film thickness. *Chemical Physics Letters*, **2007**, 437, 193-197	2.5	20
206	Efficient Electron Transport Layer Free Small-Molecule Organic Solar Cells with Superior Device Stability. *Advanced Materials*, **2021**, 33, e2008429	24	20
205	A New Approach to Model-Based Simulation of Disordered Polymer Blend Solar Cells. *Advanced Functional Materials*, **2012**, 22, 1236-1244	15.6	19
204	Dihydropyrroloindoledione-based copolymers for organic electronics. *Journal of Materials Chemistry C*, **2013**, 1, 2711	7.1	19

203	Bimolecular recombination in ambipolar organic field effect transistors. *Organic Electronics*, **2009**, 10, 994-997	3.5	19
202	The effect of side-chain substitution and hot processing on diketopyrrolopyrrole-based polymers for organic solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 13748-13756	13	18
201	Increasing the horizontal orientation of transition dipole moments in solution processed small molecular emitters. *Journal of Materials Chemistry C*, **2017**, 5, 6555-6562	7.1	18
200	Solution-Processed Tin Oxide-PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. *Solar Rrl*, **2019**, 3, 1800366	7.1	18
199	Conjugated polymers with deep LUMO levels for field-effect transistors and polymer–polymer solar cells. *Journal of Materials Chemistry C*, **2015**, 3, 8255-8261	7.1	18
198	Conjugated polymer with ternary electron-deficient units for ambipolar nanowire field-effect transistors. *Journal of Polymer Science Part A*, **2016**, 54, 34-38	2.5	18
197	Ultrafast Charge and Triplet State Formation in Diketopyrrolopyrrole Low Band Gap Polymer/Fullerene Blends: Influence of Nanoscale Morphology of Organic Photovoltaic Materials on Charge Recombination to the Triplet State. *Journal of Spectroscopy*, **2017**, 2017, 1-16	1.5	18
196	Hybrid Polymer Solar Cells from Zinc Oxide and Poly(3-hexylselenophene). *Journal of Physical Chemistry C*, **2011**, 115, 18901-18908	3.8	18
195	Intensive chiroptical properties of chiral polyfluorenes associated with fibril formation. *Journal of Physical Chemistry B*, **2009**, 113, 14047-51	3.4	18
194	Polymer solar cells and infrared light emitting diodes: Dual function low bandgap polymer. *Molecular Crystals and Liquid Crystals*, **2002**, 385, 93-100	0.5	18
193	Unexpected Dimerization of Oxidized Fullerene–Oligothiophene–Fullerene Triads. *Advanced Materials*, **2000**, 12, 908-911	24	18
192	Design and synthesis of new processible donor-acceptor dyad and triads. *Synthetic Metals*, **2001**, 119, 519-522	3.6	18
191	A thin and flexible scanner for fingerprints and documents based on metal halide perovskites. *Nature Electronics*,	28.4	18
190	Understanding the Film Formation Kinetics of Sequential Deposited Narrow-Bandgap Pb–Sn Hybrid Perovskite Films. *Advanced Energy Materials*, **2020**, 10, 2000566	21.8	18
189	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. *ACS Applied Materials & Interfaces*, **2019**, 11, 10794-10800	9.5	17
188	Subnaphthalocyanines as Electron Acceptors in Polymer Solar Cells: Improving Device Performance by Modifying Peripheral and Axial Substituents. *Chemistry - A European Journal*, **2018**, 24, 6339-6343	4.8	17
187	Evidence for space-charge-limited conduction in organic photovoltaic cells at open-circuit conditions. *Physical Review B*, **2013**, 87,	3.3	17
186	Charge separation and recombination in small band gap oligomer-fullerene triads. *Journal of Physical Chemistry B*, **2010**, 114, 14149-56	3.4	17

185	Copolymers of Polyethylene and Perylenediimides through Ring-Opening Metathesis Polymerization. *Macromolecules*, **2008**, 41, 1094-1103	5.5	17
184	Characterization of poly(p-phenylene vinylene)/methanofullerene blends of polymer solar cells by time-of-flight secondary ion mass spectrometry. *Applied Surface Science*, **2004**, 231-232, 274-277	6.7	17
183	Efficient synthesis of high-spin meta-para-oligoanilines. *Synthetic Metals*, **1999**, 103, 2287-2290	3.6	17
182	Transparent highly-oxidized conjugated polymer films from solution. *Synthetic Metals*, **1999**, 101, 417-420	3.6	17
181	Persistent photoinduced electron transfer from functionalized dendrimers to Buckminsterfullerene. *Advanced Materials*, **1996**, 8, 494-497	24	17
180	Device Performance of Emerging Photovoltaic Materials (Version 2). *Advanced Energy Materials*,2102526	21.8	17
179	The Mechanism of Dedoping PEDOT:PSS by Aliphatic Polyamines. *Journal of Physical Chemistry C*, **2019**, 123, 24328-24337	3.8	16
178	High-Accuracy Photoplethysmography Array Using Near-Infrared Organic Photodiodes with Ultralow Dark Current. *Advanced Optical Materials*, **2020**, 8, 1901989	8.1	16
177	Transition dipole moment orientation in films of solution processed fluorescent oligomers: investigating the influence of molecular anisotropy. *Journal of Materials Chemistry C*, **2016**, 4, 6302-6308	7.1	16
176	High-Spin Cation Radicals of Methylenephosphoranes. *Journal of the American Chemical Society*, **1997**, 119, 5398-5403	16.4	16
175	Electro-optical studies on MDMO-PPV:PCBM bulk-heterojunction solar cells on the millisecond time scale: Trapped carriers. *Organic Electronics*, **2006**, 7, 213-221	3.5	16
174	Charge transfer in supramolecular coaggregates of oligo(p-phenylene vinylene) and perylene bisimide in water. *ChemPhysChem*, **2005**, 6, 2029-31	3.2	16
173	Langmuir Films of an Oligo(p-phenylene vinylene) Functionalized with a Diaminotriazine Headgroup. *Langmuir*, **2001**, 17, 3281-3285	4	16
172	Lithium fluoride injection layers can form quasi-Ohmic contacts for both holes and electrons. *Applied Physics Letters*, **2014**, 105, 123302	3.4	15
171	Time-resolved microwave measurements of the polarizability of photoexcitons on conjugated polymer chains **1997**,		15
170	Metallo-supramolecular oligo(p-phenylene vinylene)/[60]fullerene architectures: towards functional materials. *Thin Solid Films*, **2002**, 403-404, 97-101	2.2	15
169	Radical cations in mixtures of phosphorus trichloride and dimethyl sulfide. A combined ESR and quantum chemical study. *The Journal of Physical Chemistry*, **1992**, 96, 614-623		15
168	16.8% Monolithic all-perovskite triple-junction solar cells via a universal two-step solution process. *Nature Communications*, **2020**, 11, 5254	17.4	15

167	Bilayer Ternary Polymer Solar Cells Fabricated Using Spontaneous Spreading on Water. *Advanced Energy Materials*, **2018**, 8, 1802197	21.8	15
166	Data retention in organic ferroelectric resistive switches. *Organic Electronics*, **2016**, 31, 56-62	3.5	14
165	Indium tin oxide-free tandem polymer solar cells on opaque substrates with top illumination. *ACS Applied Materials & Interfaces*, **2014**, 6, 13937-44	9.5	14
164	Spatial modeling of the 3D morphology of hybrid polymer-ZnO solar cells, based on electron tomography data. *Annals of Applied Statistics*, **2011**, 5,	2.1	14
163	Trapping of electrons in metal oxide-polymer memory diodes in the initial stage of electroforming. *Applied Physics Letters*, **2010**, 97, 222106	3.4	14
162	Biaxially oriented CdSe nanorods. *Langmuir*, **2009**, 25, 10970-4	4	14
161	Measuring the current density voltage characteristics of individual subcells in two-terminal polymer tandem solar cells. *Organic Electronics*, **2011**, 12, 660-665	3.5	14
160	Resolution and circular dichroism of an asymmetrically cage-opened [60]fullerene derivative. *Chemical Communications*, **1998**, 281-282	5.8	14
159	Aggregation of perylenebisimid-polytetrahydrofuran copolymers. *Synthetic Metals*, **2001**, 121, 1283-1284	3.6	14
158	The effect of side-chain substitution on the aggregation and photovoltaic performance of diketopyrrolopyrrole-alt-dicarboxylic ester bithiophene polymers. *Journal of Materials Chemistry A*, **2018**, 6, 20904-20915	13	14
157	Ultralow dark current in near-infrared perovskite photodiodes by reducing charge injection and interfacial charge generation.. *Nature Communications*, **2021**, 12, 7277	17.4	14
156	The effect of branching in a semiconducting polymer on the efficiency of organic photovoltaic cells. *Chemical Communications*, **2016**, 52, 92-5	5.8	13
155	Stochastic modeling and predictive simulations for the microstructure of organic semiconductor films processed with different spin coating velocities. *Modelling and Simulation in Materials Science and Engineering*, **2015**, 23, 045003	2	13
154	Fundamental limitations for electroluminescence in organic dual-gate field-effect transistors. *Advanced Materials*, **2014**, 26, 4450-5	24	13
153	Excitation energy shuttling in oligothiophene-diketopyrrolopyrrole-fullerene triads. *Journal of Physical Chemistry A*, **2012**, 116, 1146-50	2.8	13
152	Chain Length Dependence in Diketopyrrolopyrrole/Thiophene Oligomers. *Macromolecular Chemistry and Physics*, **2011**, 212, 515-520	2.6	13
151	Photoinduced singlet and triplet energy transfer in fullerene oligothiophene fullerene triads. *Synthetic Metals*, **2001**, 116, 123-127	3.6	13
150	Design and synthesis of processible functional copolymers. *Synthetic Metals*, **2001**, 119, 169-170	3.6	13

149	The nature of three-electron P ? S bonds studied by ESR. *Chemical Physics Letters*, **1990**, 171, 127-130	2.5	13
148	A single-crystal ESR study on radicals derived from rac- and meso-1,2-dimethyl-1,2-diphenyldiphosphine disulfide: stereochemical selection in radical formation. *Journal of the American Chemical Society*, **1988**, 110, 6001-6	16.4	13
147	The .sigma.* and TBP-e radicals obtained by electron capture of four-coordinated phosphorus compounds. A single-crystal ESR study. *Journal of the American Chemical Society*, **1986**, 108, 6145-6149	16.4	13
146	Improving Performance of All-Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. *Solar Rrl*, **2018**, 2, 1800247	7.1	13
145	Failure analysis in ITO-free all-solution processed organic solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20567-20578	13	12
144	Quadruple Junction Polymer Solar Cells with Four Complementary Absorber Layers. *Advanced Materials*, **2018**, 30, e1803836	24	12
143	The Role of Photon Energy in Free Charge Generation in Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400416	21.8	12
142	Accurate Characterization of Triple-Junction Polymer Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1701664	21.8	12
141	3D-morphology reconstruction of nanoscale phase-separation in polymer memory blends. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 1231-1237	2.6	12
140	High-efficiency dielectrophoretic ratchet. *Physical Review E*, **2012**, 86, 041106	2.4	12
139	Supramolecular Hydrogen-Bonded Oligo(p-phenylene vinylene) Polymers. *Angewandte Chemie*, **2001**, 113, 3772-3775	3.6	12
138	Enantioselective inversion of a chiral phosphinyl radical. A single-crystal ESR analysis of x-irradiated bis(2,4,6-tri-tert-butylphenyl)phosphinic chloride. *Journal of the American Chemical Society*, **1991**, 113, 9471-9479	16.4	12
137	Electron capture phosphoranyl radicals in x-irradiated diphosphine disulfides. A single crystal ESR and ab initio quantum chemical study. *Journal of Chemical Physics*, **1986**, 84, 3694-3708	3.9	12
136	Effect of Light-Induced Halide Segregation on the Performance of Mixed-Halide Perovskite Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 6650-6658	6.1	12
135	Energy Level Tuning of Poly(phenylene-dithienobenzothiadiazole)s for Low Photon Energy Loss Solar Cells. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600502	2.6	11
134	The effect of alkyl side chain length on the formation of two semi-crystalline phases in low band gap conjugated polymers. *Journal of Materials Chemistry C*, **2020**, 8, 5856-5867	7.1	11
133	Color Determination from a Single Broadband Organic Photodiode. *Advanced Optical Materials*, **2020**, 8, 1901722	8.1	11
132	A Universal Route to Fabricate n-i-p Multi-Junction Polymer Solar Cells via Solution Processing. *Solar Rrl*, **2018**, 2, 1800018	7.1	11

131	Thermal behaviour of dicarboxylic ester bithiophene polymers exhibiting a high open-circuit voltage. *Journal of Materials Chemistry C*, **2018**, 6, 3731-3742	7.1	11
130	Large Electrically Induced Height and Volume Changes in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Thin Films. *Chemistry of Materials*, **2010**, 22, 3670-3677	9.6	11
129	Anisotropic dielectric tensor for chiral polyfluorene at optical frequencies. *Journal of Physical Chemistry B*, **2009**, 113, 14165-71	3.4	11
128	Photoinduced absorption spectroscopy on MDMO-PPV:PCBM solar cells under operation. *Organic Electronics*, **2007**, 8, 325-335	3.5	11
127	Switching dynamics in non-volatile polymer memories. *Organic Electronics*, **2008**, 9, 829-833	3.5	11
126	Supramolecular fullerene architectures by quadruple hydrogen bonding. *Synthetic Metals*, **2003**, 135-136, 801-803	3.6	11
125	Effect of Ion Coordination on the Conformational and Electronic Structure of 3,4-Bis(alkylthio)thiophenes. *European Journal of Inorganic Chemistry*, **2001**, 2001, 821-828	2.3	11
124	Synthesis and Properties of Redox-Active Dendrimers Containing Phenothiazines. *European Journal of Organic Chemistry*, **2001**, 2001, 2123-2128	3.2	11
123	Separation and characterization of oligomers by reversed-phase high-performance liquid chromatography: a study on well-defined oligothiphenes. *Journal of Chromatography A*, **2001**, 911, 13-26	4.5	11
122	Real-space measurement of the potential distribution inside organic semiconductors. *Physical Review Letters*, **2002**, 88, 096803	7.4	11
121	Light-induced ESR studies in conjugated polymer-fullerene composites. *Synthetic Metals*, **1999**, 102, 1241-1242	3.6	11
120	Effect of intrachain order on the chiroptical properties of chiral poly(p-phenylene vinylenes). *Synthetic Metals*, **1999**, 102, 1105-1106	3.6	11
119	Photoinduced absorption of □conjugated polymers in solution. *Synthetic Metals*, **1995**, 69, 441-442	3.6	11
118	Ferroelectric switching and electrochemistry of pyrrole substituted trialkylbenzene-1,3,5-tricarboxamides. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 673-683	2.6	10
117	A Self-Assembled Small-Molecule-Based Hole-Transporting Material for Inverted Perovskite Solar Cells. *Chemistry - A European Journal*, **2020**, 26, 10276-10282	4.8	10
116	Carrier Recombination in Polymer Fullerene Solar Cells Probed by Reversible Exchange of Charge between the Active Layer and Electrodes Induced by a Linearly Varying Voltage. *Journal of Physical Chemistry C*, **2013**, 117, 3210-3220	3.8	10
115	Role of Hole Injection in Electroforming of LiF-Polymer Memory Diodes. *Journal of Physical Chemistry C*, **2012**, 116, 12443-12447	3.8	10
114	Exciton formation and light emission near the organic□organic interface in small-molecule based double-layer OLEDs. *Organic Electronics*, **2012**, 13, 2605-2614	3.5	10

113	Photoluminescence enhancement in thin films of PbSe nanocrystals. *Applied Physics Letters*, **2008**, 93, 121906	3.4	10
112	Side-Chain-Functionalized Polyacetylenes, 2. Photovoltaic Properties. *Macromolecular Rapid Communications*, **2002**, 23, 271-275	4.8	10
111	Electrical transport study of phenylene-based pi-conjugated molecules in a three-terminal geometry. *Annals of the New York Academy of Sciences*, **2003**, 1006, 122-32	6.5	10
110	Intermolecular effects on the radiogenic formation of electron-capture phosphorus-centered radicals. A single-crystal ESR study of diastereoisomeric precursors. *Journal of the American Chemical Society*, **1990**, 112, 938-944	16.4	10
109	A single-crystal ESR and quantum chemical study of electron-capture trialkylphosphine sulfide and selenide radical anions with a three-electron bond. *Journal of the American Chemical Society*, **1988**, 110, 3018-3026	16.4	10
108	2D/3D Hybrid Cs2AgBiBr6 Double Perovskite Solar Cells: Improved Energy Level Alignment for Higher Contact-Selectivity and Large Open Circuit Voltage. *Advanced Energy Materials*,2103215	21.8	10
107	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. *Angewandte Chemie*, **2020**, 132, 856-862	3.6	10
106	The Bottlenecks of Cs2AgBiBr6 Solar Cells: How Contacts and Slow Transients Limit the Performance. *Advanced Optical Materials*, **2021**, 9, 2100202	8.1	10
105	Adjusting Aggregation Modes and Photophysical and Photovoltaic Properties of Diketopyrrolopyrrole-Based Small Molecules by Introducing B<-N Bonds. *Chemistry - A European Journal*, **2019**, 25, 564-572	4.8	10
104	Extraction of the materials parameters that determine the mobility in disordered organic semiconductors from the current-voltage characteristics: Accuracy and limitations. *Journal of Applied Physics*, **2013**, 113, 114505	2.5	9
103	Langmuir and Langmuir□lodgett films from the N-hexyl-pyrrole-thiophene (AB) semi-amphiphilic copolymer. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 198-200, 45-51	5.1	9
102	Stimulation of electrical conductivity in a □conjugated polymeric conductor with infrared light. *Journal of Applied Physics*, **2002**, 92, 7041-7050	2.5	9
101	Solvent effects on the □dimerization of cation radicals of conjugated oligomers. *Synthetic Metals*, **1999**, 101, 373-374	3.6	9
100	Water Splitting with Series-Connected Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 26972-26981	9.5	9
99	On the homocoupling of trialkylstannyl monomers in the synthesis of diketopyrrolopyrrole polymers and its effect on the performance of polymer-fullerene photovoltaic cells.. *RSC Advances*, **2019**, 9, 15703-15714	3.7	8
98	The influence of siloxane side-chains on the photovoltaic performance of a conjugated polymer.. *RSC Advances*, **2019**, 9, 8740-8747	3.7	8
97	Effect of Charge-Transfer State Energy on Charge Generation Efficiency via Singlet Fission in Pentacene-Fullerene Solar Cells. *Journal of Physical Chemistry C*, **2019**, 123, 10253-10261	3.8	8
96	The Effect of □Branched Side Chains on the Structural and Opto-Electronic Properties of Poly(Diketopyrrolopyrrole-alt-Terthiophene). *Chemistry - A European Journal*, **2020**, 26, 14221-14228	4.8	8

95	Superheated high-temperature size-exclusion chromatography with chloroform as the mobile phase for Econjugated polymers. *Polymer Chemistry*, **2014**, 5, 558-561	4.9	8
94	A MULTISCALE APPROACH TO THE REPRESENTATION OF 3D IMAGES, WITH APPLICATION TO POLYMER SOLAR CELLS. *Image Analysis and Stereology*, **2011**, 30, 19	1	8
93	A convergent synthesis of (diphenylvinyl)benzene (DPVB) star-shaped compounds with tunable redox, photo- and electroluminescent properties. *Journal of Materials Chemistry*, **2007**, 17, 4274		8
92	. *Chemistry - A European Journal*, **2000**, 6, 1698-1707	4.8	8
91	Photoluminescence of supramolecular oligothiophene assemblies. *Synthetic Metals*, **2001**, 121, 1259-1260	3.6	8
90	Photoinduced energy and electron transfer in a C60BTC60 triad. *Synthetic Metals*, **2001**, 121, 1597-1598	3.6	8
89	Exciton coupling in oligothiophenes: A combined experimental/theoretical study. *Synthetic Metals*, **1999**, 102, 912-913	3.6	8
88	CW-Photocurrent measurements of conjugated polymers and fullerenes blended into a conventional polymer matrix. *Synthetic Metals*, **1999**, 102, 1285-1286	3.6	8
87	Intermolecular-directed reactivity in solid media. Radiogenic formation of phosphorus-centered radicals in chiral diphosphine disulfides studied by ESR. *Journal of the American Chemical Society*, **1990**, 112, 5432-5447	16.4	8
86	Influence of Regioregularity on the Optoelectronic Properties of Conjugated Diketopyrrolopyrrole Polymers Comprising Asymmetric Monomers. *Macromolecules*, **2020**, 53, 7749-7758	5.5	8
85	Relation between the Electronic Properties of Regioregular Donor-Acceptor Terpolymers and Their Binary Copolymers. *Journal of Physical Chemistry C*, **2020**, 124, 3503-3516	3.8	7
84	Spatial resolution of methods for measuring the light-emission profile in organic light-emitting diodes. *Journal of Applied Physics*, **2011**, 110, 084512	2.5	7
83	Design and synthesis of side-chain functionalized regioregular poly(3-hexylthiophene)-based copolymers and application in polymer:fullerene bulk heterojunction solar cells **2009**,		7
82	Hybrid Polymer-Inorganic Photovoltaic Cells **2009**, 321-385		7
81	Picosecond energy transfer in oligo(p-phenylene vinylene) capped gold nanoparticles. *Chemical Physics Letters*, **2007**, 433, 340-344	2.5	7
80	Photoinduced ft-ir spectroscopy of conjugated polymer/fullerene composites embedded into conventional host polymer matrices. *Synthetic Metals*, **1999**, 101, 192-193	3.6	7
79	Revealing defective interfaces in perovskite solar cells from highly sensitive sub-bandgap photocurrent spectroscopy using optical cavities.. *Nature Communications*, **2022**, 13, 349	17.4	7
78	Structural design of asymmetric diketopyrrolopyrrole polymers for organic solar cells processed from a non-halogenated solvent. *Organic Electronics*, **2020**, 86, 105914	3.5	7

77	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene-alt-benzotriazole polymers. *Journal of Materials Chemistry C*, **2020**, 8, 15426-15435	7.1	7
76	Noncovalent semiconducting polymer monolayers for high-performance field-effect transistors. *Progress in Polymer Science*, **2021**, 117, 101394	29.6	7
75	Tuning the Optical Characteristics of Diketopyrrolopyrrole Molecules in the Solid State by Alkyl Side Chains. *Journal of Physical Chemistry C*, **2020**, 124, 25229-25238	3.8	6
74	New n-Type Solution Processable All Conjugated Polymer Network: Synthesis, Optoelectronic Characterization, and Application in Organic Solar Cells. *Macromolecular Rapid Communications*, **2018**, 39, 1700629	4.8	6
73	Probing Electric Fields in Polymer Tandem and Single Junction Cells with Electroabsorption Spectroscopy. *Journal of Physical Chemistry C*, **2013**, 117, 4374-4382	3.8	6
72	Diffusion enhancement in on/off ratchets. *Applied Physics Letters*, **2013**, 102, 073104	3.4	6
71	Large photoinduced circular dichroism in chiral polyfluorene. *Journal of Physical Chemistry A*, **2009**, 113, 10891-4	2.8	6
70	An ESR study on electron-capture phosphorus-centred radicals in solid matrices of alkyl/phenyl phosphine sulfides and selenides. *Recueil Des Travaux Chimiques Des Pays-Bas*, **2010**, 108, 262-267		6
69	The synthesis and photovoltaic performance of regioregular poly[3-(n-butoxymethyl)thiophene]. *Thin Solid Films*, **2008**, 516, 7176-7180	2.2	6
68	Synthesis and characterization of novel regioregular polythiophenes. *Synthetic Metals*, **2001**, 119, 369-370	3.6	6
67	Ab initio study of isotropic and anisotropic hyperfine interactions in phosphoranyl and phosphorane anion radicals. *Computational and Theoretical Chemistry*, **1984**, 110, 139-153		6
66	Monolithic All-Perovskite Tandem Solar Cells with Minimized Optical and Energetic Losses.. *Advanced Materials*, **2021**, e2110053	24	6
65	Effect of Co-Solvents on the Crystallization and Phase Distribution of Mixed-Dimensional Perovskites. *Advanced Energy Materials*, **2021**, 11, 2102144	21.8	6
64	Impact of π-Conjugated Linkers on the Effective Exciton Binding Energy of Diketopyrrolopyrrole-Dithienopyrrole Copolymers. *Journal of Physical Chemistry C*, **2020**, 124, 27403-27412	3.8	6
63	Dielectric interface-dependent spatial charge distribution in ambipolar polymer semiconductors embedded in dual-gate field-effect transistors. *Applied Physics Letters*, **2016**, 109, 043301	3.4	6
62	Analysis of the Performance of Narrow-Bandgap Organic Solar Cells Based on a Diketopyrrolopyrrole Polymer and a Nonfullerene Acceptor. *Journal of Physical Chemistry C*, **2021**, 125, 5505-5517	3.8	6
61	Electrical conduction of LiF interlayers in organic diodes. *Journal of Applied Physics*, **2015**, 117, 155502	2.5	5
60	Bis(arylimidazole) Iridium Picolinate Emitters and Preferential Dipole Orientation in Films. *ACS Omega*, **2018**, 3, 2673-2682	3.9	5

59	Scaling of characteristic frequencies of organic electronic ratchets. *Physical Review B*, **2012**, 85,	3.3	5
58	The performance of organic electronic ratchets. *AIP Advances*, **2012**, 2, 012106	1.5	5
57	Non-linearity in the IV characteristic of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid) (PEDOT:PSS) due to Joule heating. *Organic Electronics*, **2004**, 5, 207-211	3.5	5
56	Thermochromism in the triplet excited state of poly(3-octylthiophene). *Synthetic Metals*, **1999**, 101, 177	3.6	5
55	Triplet-state phosphinyl diradicals. *Chemical Communications*, **1996**, 1919	5.8	5
54	Photoinduced Electron Transfer Between Conjugated Polymers and a Homologous Series of TCNQ Derivatives. *Journal De Physique, I*, **1996**, 6, 2151-2158		5
53	Reactivity in molecular crystals: Radical formation in chiral phosphorus compounds. *Heteroatom Chemistry*, **1991**, 2, 39-43	1.2	5
52	Radical cations of bis(diphenylphosphino) derivatives (Ph2P-R-PPh2): the formation of localized, cyclic, and dimeric configurations; an ESR and quantum chemical study. *The Journal of Physical Chemistry*, **1991**, 95, 9256-9263		5
51	The SPCl2F- phosphoranyl radical. *Chemical Physics Letters*, **1986**, 132, 459-463	2.5	5
50	Development of a Perovskite Solar Cell Architecture for Opaque Substrates. *Solar Rrl*, **2020**, 4, 2000385	7.1	5
49	Photochromic organic solar cells based on diarylethenes.. *RSC Advances*, **2020**, 10, 30176-30185	3.7	5
48	Synthesis, characterization and device optimisation of new poly(benzo[1,2-b:4,5-b?]dithiophene-alt-thieno[3,4-d]thiazole) derivatives for solar cell applications. *Polymer Chemistry*, **2015**, 6, 3956-3961	4.9	4
47	Reply to 'Tandem organic solar cells revisited'. *Nature Photonics*, **2016**, 10, 355-355	33.9	4
46	Delayed fluorescence in perhydrotriphenylene-oligothiophene inclusion compounds: evidence for molecular oxygen-related excited States. *Journal of Physical Chemistry A*, **2011**, 115, 7966-71	2.8	4
45	Organoselenium-substituted poly(p-phenylenevinylene). *Heteroatom Chemistry*, **2005**, 16, 656-662	1.2	4
44	Photoinduced absorption spectroscopy of oligothiophene/C60 mixtures in films and solutions. *Synthetic Metals*, **1995**, 70, 1345-1346	3.6	4
43	Study of the morphology of organic ferroelectric diodes with combined scanning force and scanning transmission X-ray microscopy. *Organic Electronics*, **2018**, 53, 242-248	3.5	4
42	Light-Driven Electrochemical Carbon Dioxide Reduction to Carbon Monoxide and Methane Using Perovskite Photovoltaics. *Cell Reports Physical Science*, **2020**, 1, 100058	6.1	4

41	Effects of fluorination and thermal annealing on charge recombination processes in polymer bulk-heterojunction solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 19520-19531	13	4
40	The Intrinsic Photoluminescence Spectrum of Perovskite Films. *Advanced Optical Materials*,2102557	8.1	4
39	Scanning tunnelling microscopy on organic field-effect transistors based on intrinsic pentacene. *Applied Physics Letters*, **2014**, 104, 263301	3.4	3
38	Relation between the electroforming voltage in alkali halide-polymer diodes and the bandgap of the alkali halide. *Applied Physics Letters*, **2014**, 105, 233502	3.4	3
37	Introduction to the Issue on Next-Generation Organic and Hybrid Solar Cells. *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 1512-1513	3.8	3
36	Langmuir films from semi-amphiphilic sequence-controlled heterocyclic copolymers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 198-200, 313-321	5.1	3
35	Relating the morphology of a poly(p-phenylene vinylene)/methanofullerene blend to bulk heterojunction solar cell performance **2004**,		3
34	Triplet-State Phosphoryl Diradicals. *The Journal of Physical Chemistry*, **1995**, 99, 9331-9336		3
33	Triplet-state photoexcitations and triplet-energy transfer in poly(3-alkylthiophene)/C60 solutions. *Synthetic Metals*, **1995**, 70, 1343-1344	3.6	3
32	Infrared Photoexcitation Spectroscopy of Conducting Polymer and C60 Composites: Direct Evidence of Photo-Induced Electron Transfer. *Molecular Crystals and Liquid Crystals*, **1994**, 256, 739-744		3
31	Thin Thermally Evaporated Organic Hole Transport Layers for Reduced Optical Losses in Substrate-Configuration Perovskite Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 3033-3043	6.1	3
30	Contactless charge carrier mobility measurement in organic field-effect transistors. *Organic Electronics*, **2014**, 15, 2855-2861	3.5	2
29	Langmuir film of regioregular poly(4-dodecyl-2,2?-bithiophene). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 198-200, 323-330	5.1	2
28	Hybrid ZnO:polymer bulk heterojunction solar cells from a ZnO precursor **2005**,		2
27	Triplet-state phosphoryl biradicals. *Synthetic Metals*, **1995**, 71, 1833-1834	3.6	2
26	Triplet State Photoexcitations in Frozen Solutions of Oligothiophenes. *Molecular Crystals and Liquid Crystals*, **1994**, 256, 487-492		2
25	Absorbing infrared light in polymer solar cells. *SPIE Newsroom*, **2006**,		2
24	CHAPTER 11:Multi-Junction Polymer Solar Cells. *RSC Polymer Chemistry Series*, **2015**, 310-351	1.3	2

23	Polymorphism of a semi-crystalline diketopyrrolopyrrole-terthiophene polymer. *Journal of Polymer Science*, **2021**, 59, 1285-1292	2.4	2
22	Imide-Based Multielectron Anolytes as High-Performance Materials in Nonaqueous Redox Flow Batteries. *ACS Applied Energy Materials*, **2021**, 4, 9248-9257	6.1	2
21	Pyrene-Based Small-Molecular Hole Transport Layers for Efficient and Stable Narrow-Bandgap Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2100454	7.1	2
20	Organic and Hybrid Solar Cells Based on Well-Defined Organic Semiconductors and Morphologies. *Advances in Polymer Science*, **2017**, 25-49	1.3	1
19	1000-Pixels per Inch Transistor Arrays Using Multi-Level Imprint Lithography. *IEEE Electron Device Letters*, **2020**, 41, 1217-1220	4.4	1
18	Evidence for exciton quenching by hole polarons in thick P3HT:PCBM solar cells **2016**,		1
17	PLASTIC INFRARED DETECTORS BASED ON POLY(3,4-ETHYLENEDIOXYTHIOPHENE):POLY(STYRENE SULFONIC ACID). *Modern Physics Letters B*, **2004**, 18, 53-71	1.6	1
16	Langmuir films from tailor-made semi-amphiphilic alternating (AB) heterocyclic copolymers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 198-200, 331-338	5.1	1
15	Astramol polypropyleneimine dendrimers as norrish type II amine synergists. *Journal of Coatings Technology and Research*, **2000**, 83, 119-124		1
14	PHOTOEXCITATIONS IN CONJUGATED OLIGOMERS **1998**, 524-558		1
13	Electron Transfer and Energy Transfer Reactions in Photoexcited □Nonathiophene/C60 Films and Solutions. *Molecular Crystals and Liquid Crystals*, **1994**, 256, 921-926		1
12	Efficient organic solar cells with small energy losses based on a wide-bandgap trialkylsilyl-substituted donor polymer and a non-fullerene acceptor. *Chemical Engineering Journal*, **2022**, 435, 134878	14.7	1
11	Investigation of Exciton Coupling in Oligothiophenes by Circular Dichroism Spectroscopy **1998**, 10, 1343		1
10	Controlling morphology and photovoltaic properties by chemical structure in copolymers of cyclopentadithiophene and thiophene segments. *Solar Energy Materials and Solar Cells*, **2010**, 94, 2218-2222	6.4	0
9	Perovskite Solar Cells on Polymer-Coated Smooth and Rough Steel Substrates. *Solar Rrl*,2100898	7.1	0
8	Use of Sodium Diethyldithiocarbamate to Enhance the Open-Circuit Voltage of CH3NH3PbI3 Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2000811	7.1	0
7	Metal Oxide□Polymer Bulk Heterojunction Solar Cells357-398		
6	Electronic Memory Effects in Zinc Oxide Nanoparticle -Polystyrene Devices with a Calcium Top Electrode. *Materials Research Society Symposia Proceedings*, **2006**, 965, 1		

5	Measuring the potential distribution inside soft organic semiconductors with a scanning-tunneling microscope. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 1247-1250	3
4	Stereochemical Selection in Phosphoranyl Radical Formation Using Ionizing Radiation. *Phosphorus, Sulfur and Silicon and the Related Elements*, **1990**, 51, 288-288	1
3	Effect of Co-Solvents on the Crystallization and Phase Distribution of Mixed-Dimensional Perovskites (Adv. Energy Mater. 42/2021). *Advanced Energy Materials*, **2021**, 11, 2170168	21.8
2	Efficient Solar Cells Based on a Polymer Donor with Branching in Trialkylsilyl Side Chains. *Organic Materials*, **2021**, 03, 134-140	1.9
1	The Intrinsic Photoluminescence Spectrum of Perovskite Films (Advanced Optical Materials 8/2022). *Advanced Optical Materials*, **2022**, 10, 2270032	8.1