

Mats R Andersson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

351
papers

21,682
citations

75
h-index

134
g-index

366
ext. papers

22,810
ext. citations

7.9
avg, IF

6.57
L-index

#	Paper	IF	Citations
351	Introducing neat fullerenes to improve the thermal stability of slot-die coated organic solar cells. <i>Materials Advances</i> , 2022 , 3, 2838-2849	3.3	
350	Highly active platinum single-atom catalyst grafted onto 3D carbon cloth support for the electrocatalytic hydrogen evolution reaction. <i>Applied Surface Science</i> , 2022 , 595, 153480	6.7	2
349	Cyclic Copper Uptake and Release from Natural Seawater-A Fully Sustainable Antifouling Technique to Prevent Marine Growth. <i>Environmental Science & Technology</i> , 2021 , 55, 757-766	10.3	3
348	Temperature-Modulated Doping at Polymer Semiconductor Interfaces. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1384-1393	4	
347	A Comparative Study on the Role of Polyvinylpyrrolidone Molecular Weight on the Functionalization of Various Carbon Nanotubes and Their Composites. <i>Polymers</i> , 2021 , 13,	4.5	1
346	Near-Infrared Emission by Tuned Aggregation of a Porphyrin Compound in a Host-Guest Light-Emitting Electrochemical Cell. <i>Advanced Optical Materials</i> , 2021 , 9, 2001701	8.1	3
345	Toward Faster Organic Photodiodes: Tuning of Blend Composition Ratio. <i>Advanced Functional Materials</i> , 2021 , 31, 2010661	15.6	6
344	An analysis of surface breakup induced by laser-generated cavitation bubbles in a turbulent liquid jet. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	3
343	Highly Stable Indacenodithieno[3,2-]thiophene-Based Donor-Acceptor Copolymers for Hybrid Electrochromic and Energy Storage Applications. <i>Macromolecules</i> , 2020 , 53, 11106-11119	5.5	15
342	Elastic strain-hardening and shear-thickening exhibited by thermoreversible physical hydrogels based on poly(alkylene oxide)-grafted hyaluronic acid or carboxymethylcellulose. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14579-14590	3.6	2
341	Porous PEI Coating for Copper Ion Storage and Its Controlled Electrochemical Release. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900123	5.9	4
340	Mechanism of Organic Solar Cell Performance Degradation upon Thermal Annealing of MoO _x . <i>ACS Applied Energy Materials</i> , 2020 , 3, 366-376	6.1	10
339	Light-induced degradation of a push-pull copolymer for ITO-free organic solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21303-21315	2.1	4
338	Recent Advances in the Synthesis of Electron Donor Conjugated Terpolymers for Solar Cell Applications. <i>Frontiers in Materials</i> , 2020 , 7,	4	6
337	Water/Ethanol Soluble p-Type Conjugated Polymers for the Use in Organic Photovoltaics. <i>Frontiers in Materials</i> , 2020 , 7,	4	1
336	Origin of Open-Circuit Voltage Turnover in Organic Solar Cells at Low Temperature. <i>Solar Rrl</i> , 2020 , 4, 2000375	7.1	4
335	Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. <i>IEEE Systems Journal</i> , 2020 , 14, 2544-2550	4.3	4

334	Effect of Alkyl Side Chain Length on Intra- and Intermolecular Interactions of Terthiophene-Indigo Copolymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9644-9655	3.8	10
333	Quantitative Grafting for Structure-Function Establishment: Thermoresponsive Poly(alkylene oxide) Graft Copolymers Based on Hyaluronic Acid and Carboxymethylcellulose. <i>Biomacromolecules</i> , 2019 , 20, 1271-1280	6.9	4
332	On the Design of Host-Guest Light-Emitting Electrochemical Cells: Should the Guest be Physically Blended or Chemically Incorporated into the Host for Efficient Emission?. <i>Advanced Optical Materials</i> , 2019 , 7, 1900451	8.1	13
331	Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21766-21774	9.5	56
330	Probing the Relationship between Molecular Structures, Thermal Transitions, and Morphology in Polymer Semiconductors Using a Woven Glass-Mesh-Based DMTA Technique. <i>Chemistry of Materials</i> , 2019 , 31, 6740-6749	9.6	17
329	Broad spectrum absorption and low-voltage electrochromic operation from indacenodithieno[3,2-b]thiophene-based copolymers. <i>Polymer Chemistry</i> , 2019 , 10, 2004-2014	4.9	8
328	Role of Molecular Weight in Polymer Wrapping and Dispersion of MWNT in a PVDF Matrix. <i>Polymers</i> , 2019 , 11,	4.5	3
327	Orange to green switching anthraquinone-based electrochromic material. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47729	2.9	1
326	Optimizing Polymer Solar Cells Using Non-Halogenated Solvent Blends. <i>Polymers</i> , 2019 , 11,	4.5	6
325	Copper Metallopolymer Catalyst for the Electrocatalytic Hydrogen Evolution Reaction (HER). <i>Polymers</i> , 2019 , 11,	4.5	5
324	Experimental Demonstration of Staggered CAP Modulation for Low Bandwidth Red-Emitting Polymer-LED Based Visible Light Communications 2019 ,		3
323	Donor-Acceptor Polymers for Organic Photovoltaics 2019 , 283-323		1
322	Recent Advances in n-Type Polymers for All-Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e180727524		132
321	Building intermixed donor-acceptor architectures for water-processable organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5705-5715	3.6	18
320	Impact of environmentally friendly processing solvents on the properties of blade-coated polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 487-494	2.5	11
319	Application of an Open-Circuit Voltage Decay Model to Compare the Performances of Donor Polymers in Bulk Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 517-524	3.7	2
318	Two-dimensional measurements of soot in a turbulent diffusion diesel flame: the effects of injection pressure, nozzle orifice diameter, and gas density. <i>Combustion Science and Technology</i> , 2018 , 190, 1659-1688	1.5	9
317	Incorporation of Designed Donor-Acceptor Donor Segments in a Host Polymer for Strong Near-Infrared Emission from a Large-Area Light-Emitting Electrochemical Cell. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1753-1761	6.1	15

316	Asymmetric photocurrent extraction in semitransparent laminated flexible organic solar cells. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	36
315	Synthesis and Characterization of Isoindigo-Based Polymers with Thermocleavable Side Chains. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700538	2.6	1
314	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. <i>Nano Energy</i> , 2018 , 45, 368-379	17.1	86
313	Alcohol-Soluble Conjugated Polymers as Cathode Interlayers for All-Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2176-2182	6.1	16
312	High Performance All-Polymer Photodetector Comprising a Donor-Acceptor-Acceptor Structured Indacenodithiophene-Bithieno[3,4-c]Pyrroletetrone Copolymer. <i>ACS Macro Letters</i> , 2018 , 7, 395-400	6.6	31
311	High-Performance Organic Photodetectors from a High-Bandgap Indacenodithiophene-Based Conjugated Donor-Acceptor Polymer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12937-12946	9.5	30
310	8.0% Efficient All-Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. <i>Advanced Energy Materials</i> , 2018 , 8, 1700908	21.8	76
309	Efficient Near-Infrared Electroluminescence at 840 nm with "Metal-Free" Small-Molecule:Polymer Blends. <i>Advanced Materials</i> , 2018 , 30, e1706584	24	34
308	Engineering Two-Phase and Three-Phase Microstructures from Water-Based Dispersions of Nanoparticles for Eco-Friendly Polymer Solar Cell Applications. <i>Chemistry of Materials</i> , 2018 , 30, 6521-6531	9.6	23
307	High-Speed OLEDs and Area-Emitting Light-Emitting Transistors from a Tetracyclic Lactim Semiconducting Polymer. <i>Advanced Optical Materials</i> , 2018 , 6, 1800768	8.1	14
306	Relating open-circuit voltage losses to the active layer morphology and contact selectivity in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12574-12581	13	53
305	Influence of Molecular Weight on the Creep Resistance of Almost Molten Polyethylene Blends. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700072	2.6	4
304	Side chain modification on PDI-spirobifluorene-based molecular acceptors and its impact on organic solar cell performances. <i>New Journal of Chemistry</i> , 2018 , 42, 18633-18640	3.6	10
303	Ultrafast excited state dynamics of a bithiophene-isoindigo copolymer obtained by direct arylation polycondensation and its application in indium tin oxide-free solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1475-1483	2.6	9
302	Polymer Light Emitting Devices: High-Speed OLEDs and Area-Emitting Light-Emitting Transistors from a Tetracyclic Lactim Semiconducting Polymer (Advanced Optical Materials 21/2018). <i>Advanced Optical Materials</i> , 2018 , 6, 1870084	8.1	
301	Facile Synthesis of an Efficient and Robust Cathode Interface Material for Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 7130-7139	6.1	15
300	Design, Synthesis and Computational Study of Fluorinated Quinoxaline-Oligothiophene-based Conjugated Polymers with Broad Spectral Coverage. <i>ChemPhysChem</i> , 2018 , 19, 3393-3400	3.2	
299	Environmentally friendly preparation of nanoparticles for organic photovoltaics. <i>Organic Electronics</i> , 2018 , 59, 432-440	3.5	18

298	Insights into the Oxidant/Polymer Interfacial Growth of Vapor Phase Polymerized PEDOT Thin Films. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800594	4.6	11
297	Heterogeneity in the fluorescence of graphene and graphene oxide quantum dots. <i>Mikrochimica Acta</i> , 2017 , 184, 871-878	5.8	33
296	Highly Insulating Polyethylene Blends for High-Voltage Direct-Current Power Cables. <i>ACS Macro Letters</i> , 2017 , 6, 78-82	6.6	43
295	Diketopyrrolopyrrole-based polymer:fullerene nanoparticle films with thermally stable morphology for organic photovoltaic applications. <i>MRS Communications</i> , 2017 , 7, 67-73	2.7	10
294	Poly(4-vinylpyridine): A New Interface Layer for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10929-10936	9.5	29
293	High-photovoltage all-polymer solar cells based on a diketopyrrolopyrrole-indigo acceptor polymer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11693-11700	13	43
292	Isothermal Crystallization Kinetics and Time-Temperature-Transformation of the Conjugated Polymer: Poly(3-(2'-ethyl)hexylthiophene). <i>Chemistry of Materials</i> , 2017 , 29, 5654-5662	9.6	33
291	Unravelling the Thermomechanical Properties of Bulk Heterojunction Blends in Polymer Solar Cells. <i>Macromolecules</i> , 2017 , 50, 3347-3354	5.5	46
290	Optimization of the power conversion efficiency in high bandgap pyridopyridinedithiophene-based conjugated polymers for organic photovoltaics by the random terpolymer approach. <i>European Polymer Journal</i> , 2017 , 91, 92-99	5.2	6
289	High-Performance and Stable All-Polymer Solar Cells Using Donor and Acceptor Polymers with Complementary Absorption. <i>Advanced Energy Materials</i> , 2017 , 7, 1602722	21.8	77
288	Enhanced thermal stability of a polymer solar cell blend induced by electron beam irradiation in the transmission electron microscope. <i>Ultramicroscopy</i> , 2017 , 176, 23-30	3.1	3
287	Enhanced thermal stability of a polymer solar cell blend induced by electron beam irradiation in the transmission electron microscope. <i>Ultramicroscopy</i> , 2017 , 173, 16-23	3.1	
286	Platinum Terpyridine Metallopolymer Electrode as Cost-Effective Replacement for Bulk Platinum Catalysts in Oxygen Reduction Reaction and Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10206-10214	8.3	21
285	9.0% power conversion efficiency from ternary all-polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 2212-2221	35.4	179
284	Recent Development of Quinoxaline Based Polymers/Small Molecules for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2017 , 7, 1700575	21.8	85
283	Deposition Methods of Graphene as Electrode Material for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601393	21.8	45
282	Additive-like amounts of HDPE prevent creep of molten LDPE: Phase-behavior and thermo-mechanical properties of a melt-miscible blend. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 146-156	2.6	18
281	A new quinoxaline and isoindigo based polymer as donor material for solar cells: Role of ecofriendly processing solvents on the device efficiency and stability. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 234-242	2.5	15

280	Novel rhodanine based molecular acceptor for organic solar cells. <i>EPJ Photovoltaics</i> , 2017 , 8, 80402	0.7	
279	Evaporation of Gasoline-Like Sprays from an Outwards-Opening Injector Studied with LIEF. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, B110		
278	Utilizing Energy Transfer in Binary and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20928-37	9.5	25
277	Low Band Gap Polymer Solar Cells With Minimal Voltage Losses. <i>Advanced Energy Materials</i> , 2016 , 6, 1600148	21.8	80
276	Stability of Polymer Interlayer Modified ITO Electrodes for Organic Solar Cells. <i>Australian Journal of Chemistry</i> , 2016 , 69, 735	1.2	7
275	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on DAA Thieno-benzo-isoindigo Polymers. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500313	6.4	29
274	Bulk heterojunction organic photovoltaics from water-processable nanomaterials and their facile fabrication approaches. <i>Advances in Colloid and Interface Science</i> , 2016 , 235, 56-69	14.3	17
273	Two-in-one: cathode modification and improved solar cell blend stability through addition of modified fullerenes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2663-2669	13	24
272	Inverted all-polymer solar cells based on a quinoxalinethiophene/naphthalene-diimide polymer blend improved by annealing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3835-3843	13	51
271	Nano-pathways: Bridging the divide between water-processable nanoparticulate and bulk heterojunction organic photovoltaics. <i>Nano Energy</i> , 2016 , 19, 495-510	17.1	57
270	Enhanced Ultraviolet Stability of Air-Processed Polymer Solar Cells by Al Doping of the ZnO Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1635-43	9.5	62
269	An alternating copolymer of fluorene donor and quinoxaline acceptor versus a terpolymer consisting of fluorene, quinoxaline and benzothiadiazole building units: synthesis and characterization. <i>Polymer Bulletin</i> , 2016 , 73, 1167-1183	2.4	7
268	Induced photodegradation of quinoxaline based copolymers for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 150-158	6.4	22
267	Synthesis and characterization of benzodithiophene and benzotriazole-based polymers for photovoltaic applications. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 1629-37	2.5	17
266	Luminescent line art by direct-write patterning. <i>Light: Science and Applications</i> , 2016 , 5, e16050	16.7	17
265	Invariant dielectric strength upon addition of low amounts of HDPE to LDPE 2016 ,		3
264	Triazolobenzothiadiazole-Based Copolymers for Polymer Light-Emitting Diodes: Pure Near-Infrared Emission via Optimized Energy and Charge Transfer. <i>Advanced Optical Materials</i> , 2016 , 4, 2068-2076	8.1	37
263	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10935-44	16.4	362

262	Matrix Organization and Merit Factor Evaluation as a Method to Address the Challenge of Finding a Polymer Material for Roll Coated Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402186	21.8	47
261	Predicting thermal stability of organic solar cells through an easy and fast capacitance measurement. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 240-247	6.4	33
260	Two-photon absorption of polyfluorene aggregates stabilized by insulin amyloid fibrils. <i>RSC Advances</i> , 2015 , 5, 49363-49368	3.7	9
259	Mapping fullerene crystallization in a photovoltaic blend: an electron tomography study. <i>Nanoscale</i> , 2015 , 7, 8451-6	7.7	13
258	Thia- and seleno-diazole containing polymers for near-infrared light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2792-2797	7.1	31
257	Pyrrolo[3,4-g]quinoxaline-6,8-dione-based conjugated copolymers for bulk heterojunction solar cells with high photovoltages. <i>Polymer Chemistry</i> , 2015 , 6, 4624-4633	4.9	22
256	Temperature-Dependent Optical Properties of Flexible Donor-Acceptor Polymers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6453-6463	3.8	16
255	High electron affinity: a guiding criterion for voltage stabilizer design. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7273-7286	13	35
254	Comparison of selenophene and thienothiophene incorporation into pentacyclic lactam-based conjugated polymers for organic solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 7402-7409	4.9	4
253	A new application area for fullerenes: voltage stabilizers for power cable insulation. <i>Advanced Materials</i> , 2015 , 27, 897-902	24	75
252	Improved performance and life time of inverted organic photovoltaics by using polymer interfacial materials. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 133, 99-104	6.4	10
251	Thioxanthone derivatives as stabilizers against electrical breakdown in cross-linked polyethylene for high voltage cable applications. <i>Polymer Degradation and Stability</i> , 2015 , 112, 63-69	4.7	31
250	Dielectric strength of γ -radiation cross-linked, high vinyl-content polyethylene. <i>European Polymer Journal</i> , 2015 , 64, 101-107	5.2	17
249	Fullerene Nucleating Agents: A Route Towards Thermally Stable Photovoltaic Blends. <i>Advanced Energy Materials</i> , 2014 , 4, 1301437	21.8	60
248	Charge Carrier Dynamics of Polymer:Fullerene Blends: From Geminate to Non-Geminate Recombination. <i>Advanced Energy Materials</i> , 2014 , 4, 1301706	21.8	16
247	Computational modelling of donor-acceptor conjugated polymers through engineered backbone manipulations based on a thiophene-quinoxaline alternating copolymer. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2202-2212	13	20
246	Structure-property relationships of oligothiophene-indigo polymers for efficient bulk-heterojunction solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 361-369	35.4	100
245	Conjugated polymers based on benzodithiophene and fluorinated quinoxaline for bulk heterojunction solar cells: thiophene versus thieno[3,2-b]thiophene as conjugated spacers. <i>Polymer Chemistry</i> , 2014 , 5, 2083	4.9	63

244	Very low band gap thiadiazoloquinoxaline donor-acceptor polymers as multi-tool conjugated polymers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1190-3	16.4	113
243	Tailored side-chain architecture of benzil voltage stabilizers for enhanced dielectric strength of cross-linked polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 1047-1054	2.6	44
242	Fullerene mixtures enhance the thermal stability of a non-crystalline polymer solar cell blend. <i>Applied Physics Letters</i> , 2014 , 104, 153301	3.4	44
241	Neat C60:C70 buckminsterfullerene mixtures enhance polymer solar cell performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14354-14359	13	25
240	Structural tuning of quinoxaline-benzodithiophene copolymers via alkyl side chain manipulation: synthesis, characterization and photovoltaic properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11162-11170 ³²	13	32
239	Sub-glass transition annealing enhances polymer solar cell performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6146-6152	13	43
238	Multifunctional materials for OFETs, LEFETs and NIR PLEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5133-5141	7.1	30
237	Improving Cathodes with a Polymer Interlayer in Reversed Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400643	21.8	31
236	A new tetracyclic lactam building block for thick, broad-bandgap photovoltaics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11578-81	16.4	67
235	A Facile Method to Enhance Photovoltaic Performance of Benzodithiophene-Isoindigo Polymers by Inserting Bithiophene Spacer. <i>Advanced Energy Materials</i> , 2014 , 4, 1301455	21.8	58
234	Stability study of quinoxaline and pyrido pyrazine based co-polymers for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 138-143	6.4	23
233	Effects of side chain isomerism on the physical and photovoltaic properties of indacenodithieno[3,2-b]thiophene-quinoxaline copolymers: toward a side chain design for enhanced photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18988-18997	13	40
232	Light-harvesting capabilities of low band gap donor-acceptor polymers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24853-65	3.6	24
231	25th anniversary article: isoindigo-based polymers and small molecules for bulk heterojunction solar cells and field effect transistors. <i>Advanced Materials</i> , 2014 , 26, 1801-26	24	306
230	Electron Microscopy of Organic Solar Cells Thermally Stabilized with Fullerene Nucleating Agents. <i>Microscopy and Microanalysis</i> , 2014 , 20, 398-399	0.5	
229	Conjugated polymers with polar side chains in bulk heterojunction solar cell devices. <i>Polymer International</i> , 2014 , 63, 22-30	3.3	8
228	Random polyfluorene co-polymers designed for a better optical absorption coverage of the visible region of the electromagnetic spectrum. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2014 , 28, 121	1.2	3
227	Facile Monitoring of Fullerene Crystallization in Polymer Solar Cell Blends by UV-vis Spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 530-535	2.6	15

226	Computational Modeling of Isoindigo-Based Polymers Used in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17940-17954	3.8	27
225	An alternating D _A 1D _A 2 copolymer containing two electron-deficient moieties for efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11141	13	63
224	Influence of Incorporating Different Electron-Rich Thiophene-Based Units on the Photovoltaic Properties of Isoindigo-Based Conjugated Polymers: An Experimental and DFT Study. <i>Macromolecules</i> , 2013 , 46, 8488-8499	5.5	52
223	2D Conjugated benzo[1,2-b:4,5-b']dithiophene- and quinoxaline-based copolymers for photovoltaic applications. <i>RSC Advances</i> , 2013 , 3, 24543	3.7	31
222	Tracing charge transfer states in polymer:fullerene bulk-heterojunctions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7321	13	11
221	Effect of electron-withdrawing side chain modifications on the optical properties of thiophene-quinoxaline acceptor based polymers. <i>Polymer</i> , 2013 , 54, 1285-1288	3.9	26
220	Conformational Disorder Enhances Solubility and Photovoltaic Performance of a Thiophene-Quinoxaline Copolymer. <i>Advanced Energy Materials</i> , 2013 , 3, 806-814	21.8	85
219	Nucleation-limited fullerene crystallisation in a polymer:fullerene bulk-heterojunction blend. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7174	13	50
218	Near-infrared polymer light-emitting diodes based on low-energy gap oligomers copolymerized into a high-gap polymer host. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 990-6	4.8	30
217	Molecular orbital energy level modulation through incorporation of selenium and fluorine into conjugated polymers for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13422	13	26
216	Efficient red electroluminescence from diketopyrrolopyrrole copolymerised with a polyfluorene. <i>APL Materials</i> , 2013 , 1, 032108	5.7	28
215	The role of charge stratification for reducing ringing in gasoline engine homogeneous charge compression ignition combustion investigated by optical imaging. <i>International Journal of Engine Research</i> , 2013 , 14, 525-536	2.7	5
214	The Influence of Alkoxy Substitutions on the Properties of Diketopyrrolopyrrole-Phenyl Copolymers for Solar Cells. <i>Materials</i> , 2013 , 6, 3022-3034	3.5	7
213	Evaluation of the performance of several object types for electrical treeing experiments. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013 , 20, 1712-1719	2.3	23
212	Electrochemical control of amplified spontaneous emission in conjugated polymers. <i>Organic Electronics</i> , 2012 , 13, 954-958	3.5	2
211	Interlayer for modified cathode in highly efficient inverted ITO-free organic solar cells. <i>Advanced Materials</i> , 2012 , 24, 554-8	24	88
210	Charge separation dynamics in a narrow band gap polymer: PbS nanocrystal blend for efficient hybrid solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24411		46
209	New quinoxaline and pyridopyrazine-based polymers for solution-processable photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 280-286	6.4	72

208	Mixed C60/C70 based fullerene acceptors in polymer bulk-heterojunction solar cells. <i>Organic Electronics</i> , 2012 , 13, 2856-2864	3.5	16
207	Electrical tree inhibition by voltage stabilizers 2012 ,		11
206	Synthesis and characterization of benzodithiophene-isoindigo polymers for solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2306-2314		146
205	Ultrafast terahertz photoconductivity of bulk heterojunction materials reveals high carrier mobility up to nanosecond time scale. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11836-9	16.4	54
204	Influences of Surface Roughness of ZnO Electron Transport Layer on the Photovoltaic Performance of Organic Inverted Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24462-24468	3.8	103
203	Electron and Hole Contributions to the Terahertz Photoconductivity of a Conjugated Polymer:Fullerene Blend Identified. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2442-6	6.4	29
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35	Plastic lasers: Semiconducting polymers as a new class of solid-state laser materials. <i>Synthetic Metals</i> , 1997 , 84, 455-462	3.6	138
34	Photodiode performance and nanostructure of polythiophene/C60 blends. <i>Advanced Materials</i> , 1997 , 9, 1164-1168	24	161
33	Ultrafast studies of stimulated emission and gain in solid films of conjugated polymers. <i>Chemical Physics Letters</i> , 1997 , 265, 327-333	2.5	58
32	Reactivity of Fen, Con, and Cun Clusters with O2 and D2 Studied at Single-Collision Conditions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 12222-12234		70
31	Semiconducting Polymers: A New Class of Solid-State Laser Materials. <i>Science</i> , 1996 , 273, 1833-1836	33.3	744
30	Polymer light-emitting diodes placed in microcavities. <i>Synthetic Metals</i> , 1996 , 76, 121-123	3.6	26
29	The electronic and geometric structures of neutral and potassium-doped poly [3-(4-octylphenyl)thiophene] studied by photoelectron spectroscopy. <i>Synthetic Metals</i> , 1996 , 76, 263-267	3.6	6

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27	CO on copper clusters: Orbital symmetry rules. <i>Physical Review B</i> , 1996 , 53, 16644-16651	3.3	36
26	Thiophene polymers in light emitting diodes: Making multicolour devices. <i>Synthetic Metals</i> , 1995 , 71, 2121-2124	3.6	97
25	Synthesis of poly(alkylthiophenes) for light-emitting diodes. <i>Synthetic Metals</i> , 1995 , 71, 2183-2184	3.6	48
24	Controlling colour by voltage in polymer light emitting diodes. <i>Synthetic Metals</i> , 1995 , 71, 2185-2186	3.6	75
23	Structural aspects of oriented poly(octylphenylthiophene) studied in bulk and sub-micron layers by X-ray diffraction. <i>Synthetic Metals</i> , 1995 , 73, 279-283	3.6	25
22	X-ray diffraction study of octylphenyl-substituted polythiophene. <i>Synthetic Metals</i> , 1995 , 69, 283-284	3.6	14
21	Electroluminescence from Substituted Poly(thiophenes): From Blue to Near-Infrared. <i>Macromolecules</i> , 1995 , 28, 7525-7529	5.5	262
20	Polarized electroluminescence from an oriented substituted polythiophene in a light emitting diode. <i>Advanced Materials</i> , 1995 , 7, 43-45	24	217
19	Ultraviolet electroluminescence from an organic light emitting diode. <i>Advanced Materials</i> , 1995 , 7, 900-903	24	68
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17	Tuning the bandgap for polymeric smart windows and displays. <i>Electrochimica Acta</i> , 1995 , 40, 2233-2235	6.7	64
16	Green Electroluminescence in Poly-(3-cyclohexylthiophene) light-emitting diodes. <i>Advanced Materials</i> , 1994 , 6, 488-490	24	68
15	Light-emitting diodes with variable colours from polymer blends. <i>Nature</i> , 1994 , 372, 444-446	50.4	682
14	White light from an electroluminescent diode made from poly[3(4-octylphenyl)-2,2-bithiophene] and an oxadiazole derivative. <i>Journal of Applied Physics</i> , 1994 , 76, 7530-7534	2.5	119
13	Thermochromism and optical absorption in Langmuir-Blodgett films of alkyl-substituted polythiophenes. <i>Journal of Applied Physics</i> , 1994 , 76, 893-899	2.5	44
12	Thermal control of near-infrared and visible electroluminescence in alkyl-phenyl substituted polythiophenes. <i>Applied Physics Letters</i> , 1994 , 65, 1489-1491	3.4	65
11	Regioselective polymerization of 3-(4-octylphenyl)thiophene with FeCl ₃ . <i>Macromolecules</i> , 1994 , 27, 6503-6506	3.5	185

10	Metal Cluster Oxidation: Sticking Probabilities and Ionization Potential Shifts. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 351, 299		2
9	Temperature dependence of conductivity of potassium doped poly(acetylene) under pressure and magnetic field. <i>Synthetic Metals</i> , 1993 , 57, 4882-4887	3.6	
8	The routes towards processible and stable conducting poly(thiophene)s. <i>Synthetic Metals</i> , 1993 , 55, 1221-1226	3.6	25
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6	Synthesis of soluble poly(alkylthiophenes) which are thermally stable in the doped state. <i>Synthetic Metals</i> , 1993 , 55, 1227-1231	3.6	29
5	Temperature dependence of the electrical conductivity of potassium-doped polyacetylene as a function of pressure and magnetic field. <i>Physical Review B</i> , 1993 , 47, 9977-9980	3.3	19
4	Conductivity of oriented polyacetylene doped by alkali metals: Time, temperature, and pressure dependence. <i>Physical Review B</i> , 1993 , 47, 9238-9242	3.3	8
3	Effect of ageing on the temperature dependence of conductivity of poly(3-hexylthiophene) doped by FeCl ₃ . <i>Solid State Communications</i> , 1993 , 87, 619-622	1.6	1
2	Correlation of Changes in Electronic and Device Properties in Organic Photovoltaic with Exposure to Air. <i>Advanced Materials Interfaces</i> , 2101657	4.6	1
1	High shear in situ exfoliation of 2D gallium oxide sheets from centrifugally derived thin films of liquid gallium. <i>Nanoscale Advances</i> ,	5.1	1