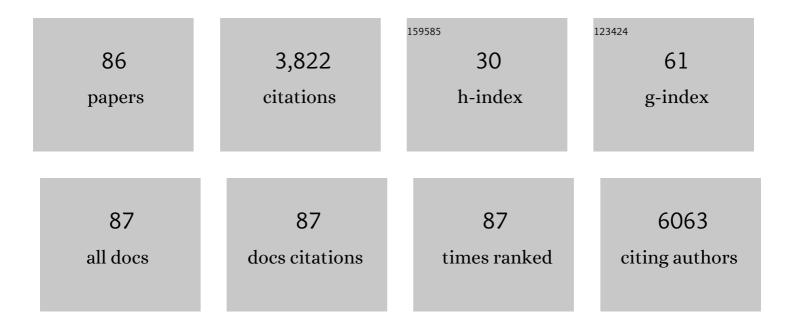
List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	39.5	797
2	Impedance Spectroscopy for Emerging Photovoltaics. Journal of Physical Chemistry C, 2019, 123, 11329-11346.	3.1	248
3	Degradation Effects Related to the Hole Transport Layer in Organic Solar Cells. Advanced Functional Materials, 2011, 21, 2705-2711.	14.9	168
4	Structural correlations in the generation of polaron pairs in low-bandgap polymers for photovoltaics. Nature Communications, 2012, 3, 970.	12.8	155
5	Diphenylmethanofullerenes: New and Efficient Acceptors in Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2005, 15, 1979-1987.	14.9	151
6	Procedures and Practices for Evaluating Thinâ€Film Solar Cell Stability. Advanced Energy Materials, 2015, 5, 1501407.	19.5	137
7	Impact of the Incorporation of Au Nanoparticles into Polymer/Fullerene Solar Cells. Journal of Physical Chemistry A, 2010, 114, 3981-3989.	2.5	130
8	Study of field effect mobility in PCBM films and P3HT:PCBM blends. Solar Energy Materials and Solar Cells, 2005, 87, 149-156.	6.2	122
9	Charge Transfer Excitons in Polymer/Fullerene Blends: The Role of Morphology and Polymer Chain Conformation. Advanced Functional Materials, 2009, 19, 3662-3668.	14.9	116
10	Understanding S-Shaped Current–Voltage Characteristics in Organic Solar Cells Containing a TiO <sub><i>x</i></sub> Interlayer with Impedance Spectroscopy and Equivalent Circuit Analysis. Journal of Physical Chemistry C, 2012, 116, 16333-16337.	3.1	107
11	How intermolecular geometrical disorder affects the molecular doping of donor–acceptor copolymers. Nature Communications, 2015, 6, 6460.	12.8	104
12	Plasmonâ€Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver. Advanced Functional Materials, 2016, 26, 285-292.	14.9	95
13	Challenges and perspectives in continuous glucose monitoring. Chemical Communications, 2018, 54, 5032-5045.	4.1	95
14	Reduced Charge Transfer Exciton Recombination in Organic Semiconductor Heterojunctions by Molecular Doping. Physical Review Letters, 2011, 107, 127402.	7.8	76
15	Molecular doping of low-bandgap-polymer:fullerene solar cells: Effects on transport and solar cells. Organic Electronics, 2012, 13, 290-296.	2.6	72
16	Impedance spectroscopy for perovskite solar cells: characterisation, analysis, and diagnosis. Journal of Materials Chemistry C, 2022, 10, 742-761.	5.5	68
17	Interpreting the Density of States Extracted from Organic Solar Cells Using Transient Photocurrent Measurements. Journal of Physical Chemistry C, 2013, 117, 12407-12414.	3.1	63
18	Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates. Advanced Materials, 2021, 33, e2004098.	21.0	52

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19	Correlation between charge transfer exciton recombination and photocurrent in polymer/fullerene solar cells. Applied Physics Letters, 2010, 97, .	3.3	48
20	Influence of Thermal Annealing on PCDTBT:PCBM Composition Profiles. Advanced Energy Materials, 2014, 4, 1300981.	19.5	47
21	The Effect of Ageing on Exciton Dynamics, Charge Separation, and Recombination in P3HT/PCBM Photovoltaic Blends. Advanced Functional Materials, 2012, 22, 1461-1469.	14.9	44
22	ITO-free inverted polymer solar cells with ZnO:Al cathodes and stable top anodes. Solar Energy Materials and Solar Cells, 2012, 98, 52-56.	6.2	44
23	Investigations of the effects of tempering and composition dependence on charge carrier field effect mobilities in polymer and fullerene films and blends. Journal of Applied Physics, 2006, 100, 043702.	2.5	40
24	Solvent additives for tuning the photovoltaic properties of polymer–fullerene solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3536-3542.	6.2	39
25	Field effect measurements on charge carrier mobilities in various polymer-fullerene blend compositions. Thin Solid Films, 2006, 511-512, 506-511.	1.8	37
26	Loss Mechanisms in High Efficiency Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1501742.	19.5	37
27	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 6309-6314.	8.0	37
28	N → B Ladder Polymers Prepared by Postfunctionalization: Tuning of Electron Affinity and Evaluation as Acceptors in All-Polymer Solar Cells. Macromolecules, 2019, 52, 1013-1024.	4.8	37
29	Increasing organic solar cell efficiency with polymer interlayers. Physical Chemistry Chemical Physics, 2013, 15, 764-769.	2.8	34
30	ITO-free inverted polymer/fullerene solar cells: Interface effects and comparison of different semi-transparent front contacts. Solar Energy Materials and Solar Cells, 2012, 96, 141-147.	6.2	32
31	Current-limiting mechanisms in polymer diodes. Journal of Applied Physics, 2006, 99, 024506.	2.5	31
32	Influence of hole extraction efficiency on the performance and stability of organic solar Cells. Solar Energy Materials and Solar Cells, 2013, 116, 176-181.	6.2	31
33	Imaging of morphological changes and phase segregation in doped polymeric semiconductors. Synthetic Metals, 2015, 199, 381-387.	3.9	31
34	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. Applied Physics Letters, 2020, 116, .	3.3	28
35	Extraordinary Interfacial Stitching between Single All-Inorganic Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 5984-5991.	8.0	27
36	Facile Preparation of Chlorideâ€Conducting Membranes: First Step towards a Roomâ€Temperature Solidâ€State Chlorideâ€ion Battery. ChemistryOpen, 2016, 5, 525-530.	1.9	26

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37	Air-Stable and Oriented Mixed Lead Halide Perovskite (FA/MA) by the One-Step Deposition Method Using Zinc Iodide and an Alkylammonium Additive. ACS Applied Materials & Interfaces, 2019, 11, 17555-17562.	8.0	24
38	Control of Surface Defects in ZnO Nanorod Arrays with Thermally Deposited Au Nanoparticles for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 3736-3748.	5.1	23
39	Spectral Signatures of Polarons in Conjugated Co-polymers. Journal of Physical Chemistry B, 2013, 117, 4454-4460.	2.6	22
40	Polymer/cathode interface barrier limiting the open circuit voltage in polymer:fullerene organic bulk heterojunction solar cells: A quantitative analysis. Applied Physics Letters, 2014, 104, 043308.	3.3	21
41	Detailed investigation of the conducting channel in poly(3-hexylthiophene) field effect transistors. Journal of Applied Physics, 2010, 108, 063709.	2.5	19
42	Charge Redistribution and Extraction in Photocatalytically Synthesized Au–ZnO Nanohybrids. Journal of Physical Chemistry C, 2015, 119, 21704-21710.	3.1	19
43	Organic Photovoltaics: Where Are We Headed?. Solar Rrl, 2021, 5, 2100167.	5.8	18
44	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. Journal of Materials Research, 2018, 33, 1909-1924.	2.6	17
45	Biocompatible molecularly imprinted polymers for the voltage regulated uptake and release of l-glutamate in neutral pH solutions. Biosensors and Bioelectronics, 2010, 26, 596-601.	10.1	16
46	Understanding the open circuit voltage in organic solar cells on the basis of a donor-acceptor abrupt (p-n++) heterojunction. Solar Energy, 2019, 184, 610-619.	6.1	16
47	The Effect of Electrostatic Interaction on nâ€∓ype Doping Efficiency of Fullerene Derivatives. Advanced Electronic Materials, 2019, 5, 1800959.	5.1	15
48	Influence of different copolymer sequences in low band gap polymers on their performance in organic solar cells. Journal of Polymer Science Part A, 2012, 50, 1622-1635.	2.3	14
49	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. Physical Review B, 2014, 89, .	3.2	13
50	Influence of molecular weight on the shortâ€channel effect in polymerâ€based fieldâ€effect transistors. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 117-124.	2.1	12
51	Investigations of electron injection in a methanofullerene thin film transistor. Journal of Applied Physics, 2006, 100, 073713.	2.5	11
52	Large area plasmonic nanoparticle arrays with well-defined size and shape. Optical Materials Express, 2014, 4, 944.	3.0	11
53	Binding and potential-triggered release of l-glutamate with molecularly imprinted polypyrrole in neutral pH solutions. Sensors and Actuators B: Chemical, 2014, 203, 327-332.	7.8	11
54	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>β</mml:mi></mml:math> -phase in Poly(9,9-dioctylfluorene). Physical Review X, 2019, 9, .	8.9	11

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55	Thiopheneâ€based copolymers synthesized by electropolymerization for application as hole transport layer in organic solar cells. Journal of Applied Polymer Science, 2013, 127, 585-592.	2.6	10
56	Electrochemical synthesis of polypyrrole layers doped with glutamic ions. Journal of Applied Polymer Science, 2009, 114, 4051-4058.	2.6	9
57	Controlled Morphology of ZnO Nanorods for Electron Transport in Squaraine Bulkâ€Hetero Junction Solar Cells With Thick Active Layers. Solar Rrl, 2017, 1, 1700132.	5.8	9
58	Thermally evaporated Ag nanoparticle films for plasmonic enhancement in organic solar cells: effects of particle geometry. Physica Status Solidi - Rapid Research Letters, 2015, 9, 161-165.	2.4	8
59	Interplay between Long-Range Crystal Order and Short-Range Molecular Interactions Tunes Carrier Mobility in Liquid Crystal Dyes. ACS Applied Materials & Interfaces, 2017, 9, 6228-6236.	8.0	8
60	Charge transfer excitons in a donor–acceptor amphidynamic crystal: the role of dipole orientational order. Materials Horizons, 2020, 7, 2951-2958.	12.2	8
61	The Role of Molecular Structure and Conformation in Polymer Electronics. Semiconductors and Semimetals, 2011, , 231-260.	0.7	7
62	Toward n-type analogues to poly(3-alkylthiophene)s: influence of side-chain variation on bulk-morphology and electron transport characteristics of head-to-tail regioregular poly(4-alkylthiazole)s. Journal of Materials Chemistry C, 2016, 4, 2587-2597.	5.5	7
63	Silica Nanoparticles for Enhanced Carrier Transport in Polymer-Based Short Channel Transistors. Journal of Physical Chemistry C, 2013, 117, 22613-22618.	3.1	5
64	Trap-Induced Dispersive Transport and Dielectric Loss in PbS Nanoparticle Films. Zeitschrift Fur Physikalische Chemie, 2017, 231, 121-134.	2.8	5
65	All-conjugated donor–acceptor block copolymers featuring a pentafulvenyl-polyisocyanide-acceptor. Polymer Chemistry, 2020, 11, 1852-1859.	3.9	5
66	Dynamical theory for the battery's electromotive force. Physical Chemistry Chemical Physics, 2021, 23, 9428-9439.	2.8	5
67	Binding and Release of Clutamate from Overoxidized Polypyrrole via an Applied Potential for Application as a Molecular Switch. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 359-363.	1.5	4
68	Charge transport properties in electrically aged organic light-emitting diodes. Journal of Applied Physics, 2013, 113, 023104.	2.5	4
69	Incident photon-to-current efficiency measurements as a helpful tool to analyze luminescence loss mechanisms in organic light-emitting diodes. Applied Physics Letters, 2013, 103, 043311.	3.3	3
70	Emerging Thinâ€Film Photovoltaics: Stabilize or Perish. Advanced Energy Materials, 2015, 5, .	19.5	3
71	Optoelectronic Properties of PCPDTBT for Photovoltaics: Morphology Control and Molecular Doping. Advances in Polymer Science, 2017, , 109-138.	0.8	3
72	New Materials for Organic Electronics: Improved Properties to Tackle Application Challenges. Advanced Electronic Materials, 2018, 4, 1800621.	5.1	3

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73	In Situ Visualization and Quantification of Electrical Selfâ€Heating in Conjugated Polymer Diodes Using Raman Spectroscopy. Advanced Electronic Materials, 0, , 2101208.	5.1	3
74	Self-dual bending theory for vesicles. Nonlinearity, 2004, 17, 57-66.	1.4	2
75	Device Applications of Organic Materials. , 2006, , 267-305.		2
76	A Gated Four Probe Technique for Field Effect Measurements on Disordered Organic Semiconductors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 591-595.	1.5	2
77	Correlating Ultrafast Dynamics, Liquid Crystalline Phases, and Ambipolar Transport in Fluorinated Benzothiadiazole Dyes. Advanced Electronic Materials, 2021, 7, 2100186.	5.1	2
78	Voltage Regulated Uptake and Release of L-Glutamate from a Molecularly Selective Switch for Physiological Applications. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 879-880.	1.5	1
79	Dynamics of Charge Transfer Excitons Recombination in Polymer/Fullerene Solar Cells. Materials Research Society Symposia Proceedings, 2011, 1286, 2.	0.1	1
80	Simple One-Pot Syntheses and Characterizations of Free Fluoride- and Bifluoride-Containing Polymers Soluble in Non-Aqueous Solvents. Materials, 2016, 9, 965.	2.9	1
81	Bioelectronics: Plasmon-Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver (Adv. Funct. Mater. 2/2016). Advanced Functional Materials, 2016, 26, 284-284.	14.9	1
82	2D or not 2D: Eliminating interfacial losses in perovskite solar cells. CheM, 2021, 7, 1694-1696.	11.7	1
83	Effects of air and light exposure on the opto-electronic properties of polymer:fullerene solar cells. Materials Research Society Symposia Proceedings, 2011, 1286, 61.	0.1	Ο
84	Improving the photocurrent in low bandgap polymer: fullerene solar cells with molecular doping. Proceedings of SPIE, 2012, , .	0.8	0
85	EU COST Action MP1307 $\mathbf{\hat{s}} \in$ " Unravelling the degradation mechanisms of emerging solar cell technologies. , 2016, , .		0
86	Organic tandem solar cells: How impedance analyses can improve the quality of external quantum efficiency measurements. Progress in Photovoltaics: Research and Applications, 2018, 26, 763-777.	8.1	0