Mats Fahlman

List of Publications by Year in descending order

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160 papers	13,853 citations	26630 56 h-index	20961 115 g-index
166 all docs	166 docs citations	166 times ranked	16887 citing authors

#	Article	IF	Citations
1	Optimization of the thermoelectric figure ofÂmeritÂin the conducting polymer poly(3,4-ethylenedioxythiophene). Nature Materials, 2011, 10, 429-433.	27.5	1,518
2	Energyâ€Level Alignment at Organic/Metal and Organic/Organic Interfaces. Advanced Materials, 2009, 21, 1450-1472.	21.0	1,400
3	Planar perovskite solar cells with long-term stability using ionic liquid additives. Nature, 2019, 571, 245-250.	27.8	1,103
4	Rational molecular passivation for high-performance perovskite light-emitting diodes. Nature Photonics, 2019, 13, 418-424.	31.4	970
5	Semi-metallic polymers. Nature Materials, 2014, 13, 190-194.	27.5	722
6	Comparative XPS surface study of polyaniline thin films. Solid State Ionics, 2008, 179, 2234-2239.	2.7	329
7	Fermi-level pinning at conjugated polymer interfaces. Applied Physics Letters, 2006, 88, 053502.	3.3	303
8	Direct Observation on p- to n-Type Transformation of Perovskite Surface Region during Defect Passivation Driving High Photovoltaic Efficiency. Joule, 2021, 5, 467-480.	24.0	245
9	Long Electronâ€“Hole Diffusion Length in Highâ€Quality Leadâ€Free Double Perovskite Films. Advanced Materials, 2018, 30, e1706246.	21.0	242
10	Interfaces in organic electronics. Nature Reviews Materials, 2019, 4, 627-650.	48.7	237
11	Double doping of conjugated polymers with monomer molecular dopants. Nature Materials, 2019, 18, 149-155.	27.5	225
12	XPS Study of Highly Sulfonated Polyaniline. Macromolecules, 1999, 32, 3114-3117.	4.8	191
13	Effect of (3â€glycidyloxypropyl)trimethoxysilane (GOPS) on the electrical properties of PEDOT:PSS films. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 814-820.	2.1	190
14	An Organic Mixed Ionâ€“Electron Conductor for Power Electronics. Advanced Science, 2016, 3, 1500305.	11.2	188
15	12.5% Flexible Nonfullerene Solar Cells by Passivating the Chemical Interaction Between the Active Layer and Polymer Interfacial Layer. Advanced Materials, 2019, 31, e1806616.	21.0	151
16	Acido-basic control of the thermoelectric properties of poly(3,4-ethylenedioxythiophene)tosylate (PEDOT-Tos) thin films. Journal of Materials Chemistry C, 2015, 3, 10616-10623.	5.5	147
17	Determination of energy level alignment at interfaces of hybrid and organic solar cells under ambient environment. Journal of Materials Chemistry, 2011, 21, 1721-1729.	6.7	145
18	Benzothiadiazole-Based Linear and Star Molecules: Design, Synthesis, and Their Application in Bulk Heterojunction Organic Solar Cells. Chemistry of Materials, 2009, 21, 5327-5334.	6.7	137

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19	Electronic Delocalization in Discotic Liquid Crystals:Â A Joint Experimental and Theoretical Study. Journal of the American Chemical Society, 2004, 126, 11889-11899.	13.7	136
20	Nitrileâ€Substituted QA Derivatives: New Acceptor Materials for Solutionâ€Processable Organic Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2011, 1, 431-439.	19.5	135
21	Enhanced and Balanced Charge Transport Boosting Ternary Solar Cells Over 17% Efficiency. Advanced Materials, 2020, 32, e2002344.	21.0	127
22	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. Nano Energy, 2019, 60, 734-742.	16.0	124
23	Recent progress in silver nanowire networks for flexible organic electronics. Journal of Materials Chemistry C, 2020, 8, 4636-4674.	5.5	122
24	A high-conductivity n-type polymeric ink for printed electronics. Nature Communications, 2021, 12, 2354.	12.8	120
25	Carbonâ€Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258.	19.5	111
26	Ground-state electron transfer in all-polymer donorâ€“acceptor heterojunctions. Nature Materials, 2020, 19, 738-744.	27.5	111
27	Poly(ethylene imine) Impurities Induce nâ€doping Reaction in Organic (Semi)Conductors. Advanced Materials, 2014, 26, 6000-6006.	21.0	101
28	Gramâ€Scale Synthesis of Ultrathin Tungsten Oxide Nanowires and their Aspect Ratioâ€Dependent Photocatalytic Activity. Advanced Functional Materials, 2014, 24, 6029-6037.	14.9	100
29	Iron-Catalyzed Polymerization of Alkoxysulfonate-Functionalized 3,4-Ethylenedioxythiophene Gives Water-Soluble Poly(3,4-ethylenedioxythiophene) of High Conductivity. Chemistry of Materials, 2009, 21, 1815-1821.	6.7	96
30	Ternary organic solar cells with enhanced open circuit voltage. Nano Energy, 2017, 37, 24-31.	16.0	96
31	Oxygenâ€and Waterâ€Based Degradation in [6,6]â€Phenylâ€C₆₁â€Butyric Acid Methyl Ester (PCBM) Films. Advanced Energy Materials, 2014, 4, 1301272.	19.5	92
32	Single Crystalâ€Like Performance in Solutionâ€Coated Thinâ€Film Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2016, 26, 2379-2386.	14.9	87
33	Control of Neural Stem Cell Adhesion and Density by an Electronic Polymer Surface Switch. Langmuir, 2008, 24, 14133-14138.	3.5	86
34	1 micron wavelength photo- and electroluminescence from a conjugated polymer. Applied Physics Letters, 2004, 84, 3570-3572.	3.3	84
35	Low Band Gap Polymer Solar Cells With Minimal Voltage Losses. Advanced Energy Materials, 2016, 6, 1600148.	19.5	84
36	MoS_x@NiO Composite Nanostructures: An Advanced Nonprecious Catalyst for Hydrogen Evolution Reaction in Alkaline Media. Advanced Functional Materials, 2019, 29, 1807562.	14.9	83

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37	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. Nature Communications, 2020, 11, 891.	12.8	83
38	A flexible semitransparent photovoltaic supercapacitor based on water-processed MXene electrodes. Journal of Materials Chemistry A, 2020, 8, 5467-5475.	10.3	79
39	Interplay of Optical, Morphological, and Electronic Effects of ZnO Optical Spacers in Highly Efficient Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400805.	19.5	78
40	Transition between energy level alignment regimes at a low band gap polymer-electrode interfaces. Applied Physics Letters, 2006, 89, 213503.	3.3	77
41	Efficient Spin Injection Through Exchange Coupling at Organic Semiconductor/Ferromagnet Heterojunctions. Advanced Materials, 2010, 22, 1626-1630.	21.0	74
42	High Seebeck Coefficient in Mixtures of Conjugated Polymers. Advanced Functional Materials, 2018, 28, 1703280.	14.9	73
43	Correlating the Seebeck coefficient of thermoelectric polymer thin films to their charge transport mechanism. Organic Electronics, 2018, 52, 335-341.	2.6	73
44	Comprehensive understanding of heat-induced degradation of triple-cation mixed halide perovskite for a robust solar cell. Nano Energy, 2018, 54, 218-226.	16.0	72
45	Extremely Low-Cost and Green Cellulose Passivating Perovskites for Stable and High-Performance Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 13491-13498.	8.0	71
46	Trapâ€Assisted Recombination via Integer Charge Transfer States in Organic Bulk Heterojunction Photovoltaics. Advanced Functional Materials, 2014, 24, 6309-6316.	14.9	70
47	Conductive polymer nanoantennas for dynamic organic plasmonics. Nature Nanotechnology, 2020, 15, 35-40.	31.5	70
48	Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS2 for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2019, 254, 1-6.	20.2	69
49	All-printed diode operating at 1.6 GHz. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11943-11948.	7.1	68
50	Energetics and Energy Loss in 2D Ruddlesdenâ€“Popper Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000687.	19.5	68
51	Oxygen- and Water-Induced Energetics Degradation in Organometal Halide Perovskites. ACS Applied Materials & Interfaces, 2018, 10, 16225-16230.	8.0	66
52	Microscopic Understanding of the Granular Structure and the Swelling of PEDOT:PSS. Macromolecules, 2020, 53, 6267-6278.	4.8	63
53	Spontaneous Charge Transfer and Dipole Formation at the Interface Between P3HT and PCBM. Advanced Energy Materials, 2011, 1, 792-797.	19.5	62
54	Bulk electronic transport impacts on electron transfer at conducting polymer electrodeâ€“electrolyte interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11899-11904.	7.1	61

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55	Dirac Nodal Arc Semimetal PtSn₄: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 13107-13112.	13.8	59
56	Unraveling Photostability of Mixed Cation Perovskite Films in Extreme Environment. Advanced Optical Materials, 2018, 6, 1800262.	7.3	58
57	Electrochemical Control of Growth Factor Presentation To Steer Neural Stem Cell Differentiation. Angewandte Chemie - International Edition, 2011, 50, 12529-12533.	13.8	56
58	Ternary Organic Solar Cells with Minimum Voltage Losses. Advanced Energy Materials, 2017, 7, 1700390.	19.5	55
59	Freestanding electrochromic paper. Journal of Materials Chemistry C, 2016, 4, 9680-9686.	5.5	53
60	Surface charge-transfer doping for highly efficient perovskite solar cells. Nano Energy, 2021, 79, 105505.	16.0	52
61	Effect of Gate Electrode Workâ€Function on Source Charge Injection in Electrolyteâ€Gated Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2014, 24, 695-700.	14.9	50
62	Hybrid Interface States and Spin Polarization at Ferromagnetic Metalâ€“Organic Heterojunctions: Interface Engineering for Efficient Spin Injection in Organic Spintronics. Advanced Functional Materials, 2014, 24, 4812-4821.	14.9	50
63	Defect passivation by nontoxic biomaterial yields 21% efficiency perovskite solar cells. Journal of Energy Chemistry, 2021, 55, 265-271.	12.9	50
64	Effects of ultraviolet soaking on surface electronic structures of solution processed ZnO nanoparticle films in polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 17676-17682.	10.3	48
65	Ligandâ€Free Synthesis of Aluminumâ€Doped Zinc Oxide Nanocrystals and their Use as Optical Spacers in Colorâ€Tuned Highly Efficient Organic Solar Cells. Advanced Functional Materials, 2016, 26, 243-253.	14.9	48
66	Tuning the Energy Levels of Photochromic Diarylethene Compounds for Opto-Electronic Switch Devices. Journal of Physical Chemistry C, 2009, 113, 18396-18405.	3.1	44
67	The interaction of poly (p-phenylenevinylene) with air. Advanced Materials, 1996, 8, 971-974.	21.0	41
68	Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells. Nature Communications, 2022, 13, 2046.	12.8	41
69	Experimental evidence for ferromagnetism at room temperature in MgO thin films. Journal of Physics Condensed Matter, 2010, 22, 345004.	1.8	40
70	Defectâ€Passivation Using Organic Dyes for Enhanced Efficiency and Stability of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900529.	5.8	40
71	Energy Level Bending in Ultrathin Polymer Layers Obtained through Langmuirâ€“ShÃfer Deposition. Advanced Functional Materials, 2016, 26, 1077-1084.	14.9	38
72	Ultraviolet lightâ€“ozone treatment of poly(3,4-ethylenedioxy-thiophene)-based materials resulting in increased work functions. Thin Solid Films, 2006, 515, 2085-2090.	1.8	37

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73	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 6309-6314.	8.0	37
74	Energy Level Alignment at Metal/Solutionâ€Processed Organic Semiconductor Interfaces. Advanced Materials, 2017, 29, 1606901.	21.0	37
75	Interfaces of (Ultra)thin Polymer Films in Organic Electronics. Advanced Materials Interfaces, 2019, 6, 1800897.	3.7	37
76	Modified Surface Electronic and Magnetic Properties of La_{0.6}Sr_{0.4}MnO₃ Thin Films for Spintronics Applications. Journal of Physical Chemistry C, 2011, 115, 16947-16953.	3.1	36
77	Efficient blue-light emitting devices from conjugated polymer blends. Advanced Materials, 1996, 8, 982-985.	21.0	34
78	Regular Energetics at Conjugated Electrolyte/Electrode Modifier for Organic Electronics and their Implications on Design Rules. Advanced Materials Interfaces, 2015, 2, 1500204.	3.7	34
79	Electrical Tuning of Plasmonic Conducting Polymer Nanoantennas. Advanced Materials, 2022, 34, e2107172.	21.0	32
80	Synthesis, structure determination and X-ray photoelectron spectroscopy characterisation of a novel polymeric silver(I) nicotinic acid complex, H[Ag(py-3-CO2)2]. Polyhedron, 2001, 20, 2747-2753.	2.2	30
81	Energy-Level Alignment at Metalâ€“Organic and Organicâ€“Organic Interfaces in Bulk-Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1718-1724.	2.9	28
82	Role of intrinsic molecular dipole in energy level alignment at organic interfaces. Applied Physics Letters, 2013, 102, 223301.	3.3	28
83	Energetics at Doped Conjugated Polymer/Electrode Interfaces. Advanced Materials Interfaces, 2015, 2, 1400403.	3.7	28
84	Dirac Nodal Arc Semimetal PtSn₄: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie, 2019, 131, 13241-13246.	2.0	28
85	n-Doping of photoactive layer in binary organic solar cells realizes over 18.3% efficiency. Nano Energy, 2022, 96, 107133.	16.0	28
86	Modeling charge transfer at organic donor-acceptor semiconductor interfaces. Applied Physics Letters, 2012, 100, 203302.	3.3	27
87	Effects of water vapor and oxygen on non-fullerene small molecule acceptors. Journal of Materials Chemistry C, 2019, 7, 879-886.	5.5	27
88	Photoelectron spectroscopy and modeling of interface properties related to organic photovoltaic cells. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 33-41.	1.7	26
89	Morphology Determines Conductivity and Seebeck Coefficient in Conjugated Polymer Blends. ACS Applied Materials & Interfaces, 2018, 10, 9638-9644.	8.0	26
90	Efficient perovskite light-emitting diodes based on a solution-processed tin dioxide electron transport layer. Journal of Materials Chemistry C, 2018, 6, 6996-7002.	5.5	25

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91	The study of organic semiconductor/ferromagnet interfaces in organic spintronics: A short review of recent progress. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1453-1462.	2.1	24
92	Pyrrolo[3,4-g]quinoxaline-6,8-dione-based conjugated copolymers for bulk heterojunction solar cells with high photovoltages. Polymer Chemistry, 2015, 6, 4624-4633.	3.9	24
93	Engineering of the Back Contact between PCBM and Metal Electrode for Planar Perovskite Solar Cells with Enhanced Efficiency and Stability. Advanced Optical Materials, 2019, 7, 1900542.	7.3	24
94	Electrochemical hydrogen production on a metal-free polymer. Sustainable Energy and Fuels, 2019, 3, 3387-3398.	4.9	24
95	Fast switching polymeric electrochromics with facile processed water dispersed nanoparticles. Nano Energy, 2018, 47, 123-129.	16.0	23
96	Chitosan functionalization of titanium and Ti6Al4V alloy with chloroacetic acid as linker agent. Materials Science and Engineering C, 2019, 99, 1133-1140.	7.3	23
97	Dynamic Redistribution of Mobile Ions in Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2021, 31, 2007596.	14.9	23
98	Air-stable organic-based semiconducting room temperature thin film magnet for spintronics applications. Applied Physics Letters, 2008, 92, .	3.3	22
99	Understanding the Impact of Film Disorder and Local Surface Potential in Ultraviolet Photoelectron Spectroscopy of PEDOT. Macromolecular Rapid Communications, 2018, 39, 1700533.	3.9	22
100	Unraveling vertical inhomogeneity in vapour phase polymerized PEDOT:Tos films. Journal of Materials Chemistry A, 2020, 8, 18726-18734.	10.3	22
101	Tuning Work Function of Noble Metals As Promising Cathodes in Organic Electronic Devices. Chemistry of Materials, 2009, 21, 2798-2802.	6.7	21
102	Charge equilibration and potential steps in organic semiconductor multilayers. Organic Electronics, 2012, 13, 1793-1801.	2.6	21
103	Boronâ€Doped Diamond Functionalization by an Electrografting/Alkyneâ€“Azide Click Chemistry Sequence. ChemElectroChem, 2014, 1, 1145-1154.	3.4	21
104	Role of Thickâ€Lithium Fluoride Layer in Energy Level Alignment at Organic/Metal Interface: Unifying Effect on High Metallic Work Functions. Advanced Materials Interfaces, 2015, 2, 1400527.	3.7	21
105	Local Surface Potential of Ï€â€Conjugated Nanostructures by Kelvin Probe Force Microscopy: Effect of the Sampling Depth. Small, 2011, 7, 634-639.	10.0	20
106	Ground-state charge transfer for NIR absorption with donor/acceptor molecules: interactions mediated via energetics and orbital symmetries. Journal of Materials Chemistry C, 2017, 5, 275-281.	5.5	20
107	Relationship of Ionization Potential and Oxidation Potential of Organic Semiconductor Films Used in Photovoltaics. Solar Rrl, 2018, 2, 1800122.	5.8	19
108	Flexible Solidâ€State Asymmetric Supercapacitors with Enhanced Performance Enabled by Freeâ€Standing MXeneâ^'Biopolymer Nanocomposites and Hierarchical Grapheneâ^'RuO_x Paper Electrodes. Batteries and Supercaps, 2020, 3, 604-610.	4.7	19

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109	Ferromagnetism above room temperature in nickelâ€“tetracyanoethylene thin films. Journal of Materials Chemistry, 2009, 19, 6610.	6.7	17
110	Electronic structure of thin film iron-tetracyanoethylene: Fe(TCNE)x. Applied Physics A: Materials Science and Processing, 2009, 95, 131-138.	2.3	16
111	Electronic structure and molecular orientation of pentacene thin films on ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 81, .	3.2	16
112	Thermal-annealing effects on energy level alignment at organic heterojunctions and corresponding voltage losses in all-polymer solar cells. Nano Energy, 2020, 72, 104677.	16.0	16
113	Highly Soluble CsPbBr₃ Perovskite Quantum Dots for Solution-Processed Light-Emission Devices. ACS Applied Nano Materials, 2021, 4, 1162-1174.	5.0	16
114	Water Intake and Ion Exchange in PEDOT:Tos Films upon Cyclic Voltammetry: Experimental and Molecular Dynamics Investigation. Macromolecules, 2021, 54, 6552-6562.	4.8	15
115	Novel small-molecule zwitterionic electrolyte with ultralow work function as cathode modifier for inverted polymer solar cells. Organic Electronics, 2018, 59, 15-20.	2.6	14
116	Understanding the effect of N2200 on performance of J71: ITIC bulk heterojunction in ternary non-fullerene solar cells. Organic Electronics, 2019, 71, 65-71.	2.6	14
117	Doped Conjugated Polymer Enclosing a Redox Polymer: Wiring Polyquinones with Poly(3,4â€Ethylenedioxythiophene). Advanced Energy and Sustainability Research, 2020, 1, 2000027.	5.8	14
118	Synergistic Effect of Multiâ€Walled Carbon Nanotubes and Ladderâ€Type Conjugated Polymers on the Performance of Nâ€Type Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, 2106447.	14.9	14
119	The unoccupied electronic structure of the semi-conducting room temperature molecular magnet V(TCNE)2. Chemical Physics Letters, 2008, 452, 173-177.	2.6	13
120	Energy level alignment in Au/pentacene/PTCDA trilayer stacks. Chemical Physics Letters, 2013, 583, 38-41.	2.6	13
121	Reduction of Charge-Carrier Recombination at ZnOâ€“Polymer Blend Interfaces in PTB7-Based Bulk Heterojunction Solar Cells Using Regular Device Structure: Impact of ZnO Nanoparticle Size and Surfactant. ACS Applied Materials & Interfaces, 2017, 9, 17256-17264.	8.0	13
122	The Effect of Oxygen Uptake on Charge Injection Barriers in Conjugated Polymer Films. ACS Applied Materials & Interfaces, 2018, 10, 6491-6497.	8.0	12
123	Amphiphilic semiconducting copolymer as compatibility layer for printing polyelectrolyte-gated OFETs. Organic Electronics, 2013, 14, 790-796.	2.6	11
124	Energy level alignment and interactive spin polarization at organic/ferromagnetic metal interfaces for organic spintronics. Organic Electronics, 2014, 15, 1951-1957.	2.6	11
125	Energy Level Alignment of N-Doping Fullerenes and Fullerene Derivatives Using Air-Stable Dopant. ACS Applied Materials & Interfaces, 2017, 9, 35476-35482.	8.0	11
126	Fabrication and Characterization of Hybrid Organicâ€“Inorganic Electron Extraction Layers for Polymer Solar Cells toward Improved Processing Robustness and Air Stability. ACS Applied Materials & Interfaces, 2018, 10, 17309-17317.	8.0	11

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127	Image-force effects on energy level alignment at electron transport material/cathode interfaces. Journal of Materials Chemistry C, 2020, 8, 173-179.	5.5	11
128	Diluted Organic Semiconductors in Photovoltaics. Solar Rrl, 2020, 4, 2000261.	5.8	11
129	Organicâ€“inorganic doped nickel oxide nanocrystals for hole transport layers in inverted polymer solar cells with color tuning. Materials Chemistry Frontiers, 2021, 5, 418-429.	5.9	10
130	Electronic structure of thin film cobalt tetracyanoethylene, Co(TCNE)x. Synthetic Metals, 2011, 161, 1892-1897.	3.9	9
131	Self-assembled monolayer engineered interfaces: Energy level alignment tuning through chain length and end-group polarity. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 140-144.	1.7	9
132	Temperature-dependent band structure evolution determined by surface geometry in organic halide perovskite single crystals. Physical Review B, 2020, 102, .	3.2	9
133	0.7-GHz Solution-Processed Indium Oxide Rectifying Diodes. IEEE Transactions on Electron Devices, 2020, 67, 360-364.	3.0	8
134	Understanding the Work Function Modification by a Selfâ€assembled Polyvinylpyrrolidone Layer in Inverted Organic Solar Cells. Solar Rrl, 2021, 5, 2000575.	5.8	8
135	Intermixing Effect on Electronic Structures of TQ1:PC₇₁BM Bulk Heterojunction in Organic Photovoltaics. Solar Rrl, 2017, 1, 1700142.	5.8	7
136	Accessing the Conduction Band Dispersion in CH₃NH₃PbI₃ Single Crystals. Journal of Physical Chemistry Letters, 2021, 12, 3773-3778.	4.6	7
137	An organic memory phototransistor based on oxygen-assisted persistent photoconductivity. Organic Electronics, 2022, 100, 106375.	2.6	7
138	Natural Product Betulinâ€Based Insulating Polymer Filler in Organic Solar Cells. Solar Rrl, 2022, 6, .	5.8	7
139	New Antimony-Based Organicâ€“Inorganic Hybrid Material as Electron Extraction Layer for Efficient and Stable Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 44820-44828.	8.0	6
140	Highly Emissive Layers based on Organic/Inorganic Nanohybrids Using Aggregation Induced Emission Effect. Advanced Materials Technologies, 2022, 7, 2100876.	5.8	6
141	Degradation of microporous polyaniline film by UVâ€“ozone treatment. Polymer Degradation and Stability, 2009, 94, 350-354.	5.8	5
142	â€˜In-situâ€™ Solution Processed Room Temperature Ferromagnetic MgO Thin Films Printed by Inkjet Technique. Materials Research Society Symposia Proceedings, 2011, 1292, 105.	0.1	5
143	Understanding Interface Dipoles at an Electron Transport Material/Electrode Modifier for Organic Electronics. ACS Applied Materials & Interfaces, 2021, 13, 47218-47225.	8.0	5
144	Effects of side groups on the kinetics of charge carrier recombination in dye molecule-doped multilayer organic light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 46-50.	5.5	4

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145	Energy level alignment at the interface of cadmium sulphide single crystal and phthalocyanines: The role of the crystal surface states. Materials Chemistry and Physics, 2018, 205, 102-112.	4.0	4
146	Electronic and magnetic properties of a ferromagnetic cobalt surface by adsorbing ultrathin films of tetracyanoethylene. Physical Chemistry Chemical Physics, 2019, 21, 15833-15844.	2.8	4
147	Experimental and Theoretical Investigation into the Polaron Structure of K-Doped Polyfluorene Films. Journal of Physical Chemistry C, 2021, 125, 937-945.	3.1	4
148	Investigating the reason for high FF from ternary organic solar cells. Journal of Semiconductors, 2021, 42, 090501.	3.7	4
149	Photostability of Perovskite Solar Cells: Unraveling Photostability of Mixed Cation Perovskite Films in Extreme Environment (Advanced Optical Materials 20/2018). Advanced Optical Materials, 2018, 6, 1870080.	7.3	3
150	11,11,12,12â€Tetracyanonaphthoâ€2,6â€quinodimethane in Contact with Ferromagnetic Electrodes for Organic Spintronics. Advanced Electronic Materials, 2018, 4, 1800077.	5.1	3
151	Electronic Structure Characterization of Soft Semiconductors. Advanced Materials Interfaces, 2019, 6, 1900439.	3.7	3
152	Dimensional Tailoring of Ultrahigh Vacuum Annealing-Assisted Quantum Wells for the Efficiency Enhancement of Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 24965-24970.	8.0	2
153	Nanocontacts give efficient hole injection in organic electronics. Science Bulletin, 2021, 66, 875-879.	9.0	2
154	Impact of molecular layer on emergent photovoltaic response in silicon unraveled by photoelectron spectroscopy. Applied Surface Science, 2021, 544, 148807.	6.1	2
155	Organic Photovoltaics: Low Band Gap Polymer Solar Cells With Minimal Voltage Losses (Adv. Energy) Tj ETQq1 1 0.784314 rgBT /Ove	19.5	1
156	Defectâ€Passivation Using Organic Dyes for Enhanced Efficiency and Stability of Perovskite Solar Cells. Solar Rrl, 2020, 4, 2070052.	5.8	1
157	Photoelectron Spectroscopy of Interfaces for Polymer-Based Electronic Devices. , 2001, , .		1
158	Characterization of Palladium Acetylacetonate as a CVD Precursor for Pd Metallization. Materials Research Society Symposia Proceedings, 1992, 282, 353.	0.1	0
159	Dye sensitized solar cells with a plastic counter electrode of poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td		0
160	Organic Semiconducting Materials. , 2016, , 11-45.		0