

# Richard Friend

## List of Publications by Year in descending order

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709  
papers

139,298  
citations

73

172  
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90

357  
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730  
all docs

730  
docs citations

730  
times ranked

56250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-emitting diodes based on conjugated polymers. Nature, 1990, 347, 539-541.	13.7	10,985
2	Electroluminescence in conjugated polymers. Nature, 1999, 397, 121-128.	13.7	5,746
3	Two-dimensional charge transport in self-organized, high-mobility conjugated polymers. Nature, 1999, 401, 685-688.	13.7	4,364
4	Bright light-emitting diodes based on organometal halide perovskite. Nature Nanotechnology, 2014, 9, 687-692.	15.6	3,627
5	High-Resolution Inkjet Printing of All-Polymer Transistor Circuits. Science, 2000, 290, 2123-2126.	6.0	3,127
6	Efficient photodiodes from interpenetrating polymer networks. Nature, 1995, 376, 498-500.	13.7	3,119
7	Integrated Optoelectronic Devices Based on Conjugated Polymers. Science, 1998, 280, 1741-1744.	6.0	2,627
8	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. Science, 2015, 350, 1222-1225.	6.0	2,440
9	Organic solar cells based on non-fullerene acceptors. Nature Materials, 2018, 17, 119-128.	13.3	2,315
10	Self-Organized Discotic Liquid Crystals for High-Efficiency Organic Photovoltaics. Science, 2001, 293, 1119-1122.	6.0	2,286
11	General observation of n-type field-effect behaviour in organic semiconductors. Nature, 2005, 434, 194-199.	13.7	2,172
12	An improved experimental determination of external photoluminescence quantum efficiency. Advanced Materials, 1997, 9, 230-232.	11.1	1,843
13	Efficient light-emitting diodes based on polymers with high electron affinities. Nature, 1993, 365, 628-630.	13.7	1,654
14	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	15.6	1,535
15	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. Journal of Physical Chemistry Letters, 2014, 5, 1421-1426.	2.1	1,490
16	Maximizing and stabilizing luminescence from halide perovskites with potassium passivation. Nature, 2018, 555, 497-501.	13.7	1,336
17	Lasing from conjugated-polymer microcavities. Nature, 1996, 382, 695-697.	13.7	1,316
18	Laminated fabrication of polymeric photovoltaic diodes. Nature, 1998, 395, 257-260.	13.7	1,249

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19	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018, 360, 1442-1446.	6.0	1,221
20	The Role of Driving Energy and Delocalized States for Charge Separation in Organic Semiconductors. <i>Science</i> , 2012, 335, 1340-1344.	6.0	1,022
21	Chemically diverse and multifunctional hybrid organic-inorganic perovskites. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	867
22	Effect of interchain interactions on the absorption and emission of poly(3-hexylthiophene). <i>Physical Review B</i> , 2003, 67, .	1.1	830
23	Role of Intermolecular Coupling in the Photophysics of Disordered Organic Semiconductors: Aggregate Emission in Regioregular Polythiophene. <i>Physical Review Letters</i> , 2007, 98, 206406.	2.9	816
24	Ultrafast Long-Range Charge Separation in Organic Semiconductor Photovoltaic Diodes. <i>Science</i> , 2014, 343, 512-516.	6.0	807
25	Metal halide perovskites for light-emitting diodes. <i>Nature Materials</i> , 2021, 20, 10-21.	13.3	800
26	Synthesis and Optical Properties of Lead-Free Cesium Tin Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2016, 138, 2941-2944.	6.6	792
27	Ultrasoft organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 6142.	5.8	784
28	Highly Efficient Perovskite Nanocrystal Light-Emitting Diodes Enabled by a Universal Crosslinking Method. <i>Advanced Materials</i> , 2016, 28, 3528-3534.	11.1	782
29	Exciton diffusion and dissociation in a poly(p-phenylenevinylene)/C60 heterojunction photovoltaic cell. <i>Applied Physics Letters</i> , 1996, 68, 3120-3122.	1.5	772
30	Mobility enhancement in conjugated polymer field-effect transistors through chain alignment in a liquid-crystalline phase. <i>Applied Physics Letters</i> , 2000, 77, 406-408.	1.5	767
31	Molecular-scale interface engineering for polymer light-emitting diodes. <i>Nature</i> , 2000, 404, 481-484.	13.7	764
32	Chemical tuning of electroluminescent copolymers to improve emission efficiencies and allow patterning. <i>Nature</i> , 1992, 356, 47-49.	13.7	748
33	High-efficiency perovskite-polymer bulk heterostructure light-emitting diodes. <i>Nature Photonics</i> , 2018, 12, 783-789.	15.6	715
34	Poly(p-phenylenevinylene) light-emitting diodes: Enhanced electroluminescent efficiency through charge carrier confinement. <i>Applied Physics Letters</i> , 1992, 61, 2793-2795.	1.5	683
35	New semiconductor device physics in polymer diodes and transistors. <i>Nature</i> , 1988, 335, 137-141.	13.7	660
36	Perovskites for Next-Generation Optical Sources. <i>Chemical Reviews</i> , 2019, 119, 7444-7477.	23.0	640

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37	Interfacial Control Toward Efficient and Low-Voltage Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2015, 27, 2311-2316.	11.1	631
38	Efficient Light-Emitting Diodes Based on Nanocrystalline Perovskite in a Dielectric Polymer Matrix. <i>Nano Letters</i> , 2015, 15, 2640-2644.	4.5	621
39	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 10030.	5.8	620
40	Heterojunction Modification for Highly Efficient Organic-Inorganic Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 12701-12709.	7.3	614
41	Photon recycling in lead iodide perovskite solar cells. <i>Science</i> , 2016, 351, 1430-1433.	6.0	600
42	Indium-tin oxide treatments for single- and double-layer polymeric light-emitting diodes: The relation between the anode physical, chemical, and morphological properties and the device performance. <i>Journal of Applied Physics</i> , 1998, 84, 6859-6870.	1.1	599
43	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 148-155.	15.6	590
44	Angular Dependence of the Emission from a Conjugated Polymer Light-Emitting Diode: Implications for efficiency calculations. <i>Advanced Materials</i> , 1994, 6, 491-494.	11.1	582
45	Efficient Visible Quasi-2D Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2016, 28, 7515-7520.	11.1	554
46	Spatial control of the recombination zone in an ambipolar light-emitting organic transistor. <i>Nature Materials</i> , 2006, 5, 69-74.	13.3	534
47	Self-Aligned, Vertical-Channel, Polymer Field-Effect Transistors. <i>Science</i> , 2003, 299, 1881-1884.	6.0	514
48	Close look at charge carrier injection in polymer field-effect transistors. <i>Journal of Applied Physics</i> , 2003, 94, 6129-6137.	1.1	494
49	Built-in field electroabsorption spectroscopy of polymer light-emitting diodes incorporating a doped poly(3,4-ethylene dioxythiophene) hole injection layer. <i>Applied Physics Letters</i> , 1999, 75, 1679-1681.	1.5	492
50	Determining exciton bandwidth and film microstructure in polythiophene films using linear absorption spectroscopy. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	492
51	Hot-carrier cooling and photoinduced refractive index changes in organic-inorganic lead halide perovskites. <i>Nature Communications</i> , 2015, 6, 8420.	5.8	491
52	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. <i>Nature Photonics</i> , 2019, 13, 760-764.	15.6	483
53	The Energy Gap Law for Triplet States in Pt-Containing Conjugated Polymers and Monomers. <i>Journal of the American Chemical Society</i> , 2001, 123, 9412-9417.	6.6	474
54	Spin-dependent exciton formation in $\pi$ -conjugated compounds. <i>Nature</i> , 2001, 413, 828-831.	13.7	472

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55	Cyclodextrin-threaded conjugated polyrotaxanes as insulated molecular wires with reduced interstrand interactions. <i>Nature Materials</i> , 2002, 1, 160-164.	13.3	471
56	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. <i>Nature</i> , 2021, 591, 72-77.	13.7	471
57	Blue-Green Color Tunable Solution Processable Organolead Chloride/Bromide Mixed Halide Perovskites for Optoelectronic Applications. <i>Nano Letters</i> , 2015, 15, 6095-6101.	4.5	461
58	The role of spin in the kinetic control of recombination in organic photovoltaics. <i>Nature</i> , 2013, 500, 435-439.	13.7	460
59	Efficient radical-based light-emitting diodes with doublet emission. <i>Nature</i> , 2018, 563, 536-540.	13.7	453
60	Singlet exciton fission in solution. <i>Nature Chemistry</i> , 2013, 5, 1019-1024.	6.6	450
61	High-performance light-emitting diodes based on carbene-metal-amides. <i>Science</i> , 2017, 356, 159-163.	6.0	444
62	Attaching Perylene Dyes to Polyfluorene: Three Simple, Efficient Methods for Facile Color Tuning of Light-Emitting Polymers. <i>Journal of the American Chemical Society</i> , 2003, 125, 437-443.	6.6	441
63	Understanding Energy Loss in Organic Solar Cells: Toward a New Efficiency Regime. <i>Joule</i> , 2018, 2, 25-35.	11.7	440
64	Defect-Assisted Photoinduced Halide Segregation in Mixed-Halide Perovskite Thin Films. <i>ACS Energy Letters</i> , 2017, 2, 1416-1424.	8.8	437
65	Electroluminescence emission pattern of organic light-emitting diodes: Implications for device efficiency calculations. <i>Journal of Applied Physics</i> , 2000, 88, 1073-1081.	1.1	434
66	Enhancing photoluminescence yields in lead halide perovskites by photon recycling and light out-coupling. <i>Nature Communications</i> , 2016, 7, 13941.	5.8	427
67	Giant broadband nonlinear optical absorption response in dispersed graphene single sheets. <i>Nature Photonics</i> , 2011, 5, 554-560.	15.6	425
68	Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 602-609.	15.6	417
69	Highly efficient luminescence from space-confined charge-transfer emitters. <i>Nature Materials</i> , 2020, 19, 1332-1338.	13.3	413
70	A transferable model for singlet-fission kinetics. <i>Nature Chemistry</i> , 2014, 6, 492-497.	6.6	402
71	Ultrafast Dynamics of Exciton Fission in Polycrystalline Pentacene. <i>Journal of the American Chemical Society</i> , 2011, 133, 11830-11833.	6.6	394
72	Exciton Regeneration at Polymeric Semiconductor Heterojunctions. <i>Physical Review Letters</i> , 2004, 92, 247402.	2.9	390

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73	Preparation of Single-Phase Films of $\text{CH}_3\text{NH}_3\text{Pb}(\text{I})_3\text{Br}_x$ with Sharp Optical Band Edges. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2501-2505.	2.1	385
74	Electron Trapping in Dye/Polymer Blend Photovoltaic Cells. <i>Advanced Materials</i> , 2000, 12, 1270-1274.	11.1	382
75	Intermolecular interactions in the molecular ferromagnetic $\text{NH}_4\text{Ni}(\text{mnt})_2 \cdot \text{H}_2\text{O}$ . <i>Nature</i> , 1996, 380, 144-146.	13.7	375
76	Photovoltaic Performance and Morphology of Polyfluorene Blends: A Combined Microscopic and Photovoltaic Investigation. <i>Macromolecules</i> , 2001, 34, 6005-6013.	2.2	367
77	Efficiency Enhancements in Solid-State Hybrid Solar Cells via Reduced Charge Recombination and Increased Light Capture. <i>Nano Letters</i> , 2007, 7, 3372-3376.	4.5	363
78	Interchain vs. intrachain energy transfer in acceptor-capped conjugated polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10982-10987.	3.3	362
79	Perovskite Crystals for Tunable White Light Emission. <i>Chemistry of Materials</i> , 2015, 27, 8066-8075.	3.2	362
80	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. <i>Science Advances</i> , 2017, 3, e1601935.	4.7	354
81	An Organic Electronics Primer. <i>Physics Today</i> , 2005, 58, 53-58.	0.3	348
82	Harvesting Singlet and Triplet Energy in Polymer LEDs. <i>Advanced Materials</i> , 1999, 11, 285-288.	11.1	347
83	Lattice strain causes non-radiative losses in halide perovskites. <i>Energy and Environmental Science</i> , 2019, 12, 596-606.	15.6	343
84	Inkjet Printed Via-Hole Interconnections and Resistors for All-Polymer Transistor Circuits. <i>Advanced Materials</i> , 2001, 13, 1601-1605.	11.1	340
85	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020, 14, 636-642.	15.6	331
86	Performance and Stability Enhancement of Dye-Sensitized and Perovskite Solar Cells by Al Doping of $\text{TiO}_2$ . <i>Advanced Functional Materials</i> , 2014, 24, 6046-6055.	7.8	330
87	Low-Temperature Solution-Grown $\text{CsPbBr}_3$ Single Crystals and Their Characterization. <i>Crystal Growth and Design</i> , 2016, 16, 5717-5725.	1.4	329
88	Noncontact potentiometry of polymer field-effect transistors. <i>Applied Physics Letters</i> , 2002, 80, 2913-2915.	1.5	328
89	Ionic space-charge effects in polymer light-emitting diodes. <i>Physical Review B</i> , 1998, 57, 12951-12963.	1.1	326
90	Photo-excitation in conjugated polymers. <i>Journal Physics D: Applied Physics</i> , 1987, 20, 1367-1384.	1.3	323

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91	Minimising efficiency roll-off in high-brightness perovskite light-emitting diodes. Nature Communications, 2018, 9, 608.	5.8	322
92	Charge separation in localized and delocalized electronic states in polymeric semiconductors. Nature, 1998, 392, 903-906.	13.7	321
93	Effects of Packing Structure on the Optoelectronic and Charge Transport Properties in Poly(9,9-di-n-octylfluorene-alt-benzothiadiazole). Journal of the American Chemical Society, 2005, 127, 12890-12899.	6.6	320
94	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. Nano Letters, 2010, 10, 2303-2309.	4.5	310
95	Highly Efficient Light-Emitting Diodes of Colloidal Metal-Halide Perovskite Nanocrystals beyond Quantum Size. ACS Nano, 2017, 11, 6586-6593.	7.3	310
96	Harnessing singlet exciton fission to break the Shockley-Queisser limit. Nature Reviews Materials, 2017, 2, .	23.3	309
97	The photovoltaic response in poly(p-phenylene vinylene) thin-film devices. Journal of Physics Condensed Matter, 1994, 6, 1379-1394.	0.7	300
98	Band-Like Transport in Surface-Functionalized Highly Solution-Processable Graphene Nanosheets. Advanced Materials, 2008, 20, 3440-3446.	11.1	299
99	Exciton Fission and Charge Generation via Triplet Excitons in Pentacene/C <sub>60</sub> Bilayers. Journal of the American Chemical Society, 2010, 132, 12698-12703.	6.6	295
100	Lithography-Free, Self-Aligned Inkjet Printing with Sub-Hundred-Nanometer Resolution. Advanced Materials, 2005, 17, 997-1001.	11.1	293
101	All-Polymer Optoelectronic Devices. Science, 1999, 285, 233-236.	6.0	286
102	Solution-Processible Conjugated Electrophosphorescent Polymers. Journal of the American Chemical Society, 2004, 126, 7041-7048.	6.6	285
103	Exciton dissociation mechanisms in the polymeric semiconductors poly(9,9-dioctylfluorene) and poly(9,9-dioctylfluorene-co-benzothiadiazole). Physical Review B, 2001, 63, .	1.1	283
104	Enhanced Performance in Fluorene-Free Organometal Halide Perovskite Light-Emitting Diodes using Tunable, Low Electron Affinity Oxide Electron Injectors. Advanced Materials, 2015, 27, 1414-1419.	11.1	283
105	Spin-cast thin semiconducting polymer interlayer for improving device efficiency of polymer light-emitting diodes. Applied Physics Letters, 2005, 87, 023506.	1.5	277
106	Long-range exciton transport in conjugated polymer nanofibers prepared by seeded growth. Science, 2018, 360, 897-900.	6.0	277
107	Effect of Annealing on P3HT:PCBM Charge Transfer and Nanoscale Morphology Probed by Ultrafast Spectroscopy. Nano Letters, 2010, 10, 923-930.	4.5	274
108	Photoexcited states in poly(p-phenylene vinylene): Comparison with trans,trans-distyrylbenzene, a model oligomer. Physical Review B, 1990, 42, 11670-11681.	1.1	272

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109	Photodiodes Based on Polyfluorene Composites: Influence of Morphology. <i>Advanced Materials</i> , 2000, 12, 498-502.	11.1	272
110	Charge- and energy-transfer processes at polymer/polymer interfaces: A joint experimental and theoretical study. <i>Physical Review B</i> , 1999, 60, 5721-5727.	1.1	268
111	Mixed halide perovskites for spectrally stable and high-efficiency blue light-emitting diodes. <i>Nature Communications</i> , 2021, 12, 361.	5.8	268
112	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. <i>Joule</i> , 2017, 1, 155-167.	11.7	264
113	Effect of metal films on the photoluminescence and electroluminescence of conjugated polymers. <i>Physical Review B</i> , 1997, 56, 1893-1905.	1.1	261
114	Stable Light-Emitting Diodes Using Phase-Pure Ruddlesden-Popper Layered Perovskites. <i>Advanced Materials</i> , 2018, 30, 1704217.	11.1	258
115	Controlling Electrical Properties of Conjugated Polymers via a Solution-Based p-Type Doping. <i>Advanced Materials</i> , 2008, 20, 3319-3324.	11.1	256
116	Effects of Layer Thickness and Annealing of PEDOT:PSS Layers in Organic Photodetectors. <i>Macromolecules</i> , 2009, 42, 6741-6747.	2.2	253
117	Optical spectroscopy of field-induced charge in self-organized high mobility poly(3-hexylthiophene). <i>Physical Review B</i> , 2001, 63, .	1.1	252
118	Formation of Nanopatterned Polymer Blends in Photovoltaic Devices. <i>Nano Letters</i> , 2010, 10, 1302-1307.	4.5	248
119	Evolution of lowest singlet and triplet excited states with number of thienyl rings in platinum polyynes. <i>Journal of Chemical Physics</i> , 1999, 110, 4963-4970.	1.2	246
120	Resonant energy transfer of triplet excitons from pentacene to PbSe nanocrystals. <i>Nature Materials</i> , 2014, 13, 1033-1038.	13.3	246
121	Inkjet printing of polymer thin film transistors. <i>Thin Solid Films</i> , 2003, 438-439, 279-287.	0.8	245
122	Efficient Single-Layer Polymer Light-Emitting Diodes. <i>Advanced Materials</i> , 2010, 22, 3194-3198.	11.1	243
123	Efficient Polythiophene/Polyfluorene Copolymer Bulk Heterojunction Photovoltaic Devices: Device Physics and Annealing Effects. <i>Advanced Functional Materials</i> , 2008, 18, 2309-2321.	7.8	242
124	Determining exciton coherence from the photoluminescence spectral line shape in poly(3-hexylthiophene) thin films. <i>Journal of Chemical Physics</i> , 2009, 130, 074904.	1.2	241
125	High-performance polymer semiconducting heterostructure devices by nitrene-mediated photocrosslinking of alkyl side chains. <i>Nature Materials</i> , 2010, 9, 152-158.	13.3	241
126	Transient electroluminescence of polymer light emitting diodes using electrical pulses. <i>Journal of Applied Physics</i> , 1999, 86, 5116-5130.	1.1	237



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127	New Strategies for Defect Passivation in High-Efficiency Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903090.	10.2	237
128	Unequal Partnership: Asymmetric Roles of Polymeric Donor and Fullerene Acceptor in Generating Free Charge. <i>Journal of the American Chemical Society</i> , 2014, 136, 2876-2884.	6.6	235
129	Phase Separation in Polyfluorene-Based Conjugated Polymer Blends: A Lateral and Vertical Analysis of Blend Spin-Cast Thin Films. <i>Macromolecules</i> , 2004, 37, 2861-2871.	2.2	232
130	Blue-phase templated fabrication of three-dimensional nanostructures for photonic applications. <i>Nature Materials</i> , 2012, 11, 599-603.	13.3	231
131	Singlet Exciton Fission in Polycrystalline Pentacene: From Photophysics toward Devices. <i>Accounts of Chemical Research</i> , 2013, 46, 1330-1338.	7.6	230
132	Optical spectroscopy of highly ordered poly(p-phenylene vinylene). <i>Journal of Physics Condensed Matter</i> , 1993, 5, 7155-7172.	0.7	227
133	Triplet Energy Back Transfer in Conjugated Polymers with Pendant Phosphorescent Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6647-6656.	6.6	226
134	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021, 597, 666-671.	13.7	225
135	Dual electron donor/electron acceptor character of a conjugated polymer in efficient photovoltaic diodes. <i>Applied Physics Letters</i> , 2007, 90, 193506.	1.5	223
136	The origin of the open-circuit voltage in polyfluorene-based photovoltaic devices. <i>Journal of Applied Physics</i> , 2002, 92, 4266-4270.	1.1	221
137	Amine-Based Passivating Materials for Enhanced Optical Properties and Performance of Organic-Inorganic Perovskites in Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1784-1792.	2.1	220
138	Bimolecular Recombination in Organic Photovoltaics. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 557-581.	4.8	218
139	Charge Generation Kinetics and Transport Mechanisms in Blended Polyfluorene Photovoltaic Devices. <i>Nano Letters</i> , 2002, 2, 1353-1357.	4.5	214
140	Fine-Tuning the Energy Levels of a Nonfullerene Small-Molecule Acceptor to Achieve a High Short-Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, 1704904.	11.1	214
141	Optical spectroscopy of field-induced charge in poly(3-hexyl thienylene) metal-insulator-semiconductor structures: Evidence for polarons. <i>Physical Review Letters</i> , 1991, 66, 2231-2234.	2.9	213
142	High-stability ultrathin spin-on benzocyclobutene gate dielectric for polymer field-effect transistors. <i>Applied Physics Letters</i> , 2004, 84, 3400-3402.	1.5	213
143	High Open-Circuit Voltages in Tin-Rich Low-Bandgap Perovskite-Based Planar Heterojunction Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1604744.	11.1	212
144	Perylene-Based Covalent Organic Frameworks for Acid Vapor Sensing. <i>Journal of the American Chemical Society</i> , 2019, 141, 15693-15699.	6.6	212

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145	3d transition-metal intercalates of the niobium and tantalum dichalcogenides. I. Magnetic properties. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1980, 41, 65-93.	0.6	211
146	Improved operational stability of polyfluorene-based organic light-emitting diodes with plasma-treated indium tin oxide anodes. Applied Physics Letters, 1999, 74, 3084-3086.	1.5	211
147	Influence of Nanoscale Phase Separation on the Charge Generation Dynamics and Photovoltaic Performance of Conjugated Polymer Blends: Balancing Charge Generation and Separation. Journal of Physical Chemistry C, 2007, 111, 19153-19160.	1.5	209
148	Charge Recombination in Organic Photovoltaic Devices with High Open-Circuit Voltages. Journal of the American Chemical Society, 2008, 130, 13653-13658.	6.6	204
149	Singlet Exciton Fission-Sensitized Infrared Quantum Dot Solar Cells. Nano Letters, 2012, 12, 1053-1057.	4.5	200
150	Vertically segregated polymer-blend photovoltaic thin-film structures through surface-mediated solution processing. Applied Physics Letters, 2002, 80, 1695-1697.	1.5	199
151	Polymer Blend Solar Cells Based on a High-Mobility Naphthalenediimide-Based Polymer Acceptor: Device Physics, Photophysics and Morphology. Advanced Energy Materials, 2011, 1, 230-240.	10.2	199
152	Temperature-Independent Singlet Exciton Fission in Tetracene. Journal of the American Chemical Society, 2013, 135, 16680-16688.	6.6	198
153	High Circular Polarization of Electroluminescence Achieved via Self-Assembly of a Light-Emitting Chiral Conjugated Polymer into Multidomain Cholesteric Films. ACS Nano, 2017, 11, 12713-12722.	7.3	197
154	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. Advanced Energy Materials, 2016, 6, 1502472.	10.2	196
155	Ultrafast carrier thermalization in lead iodide perovskite probed with two-dimensional electronic spectroscopy. Nature Communications, 2017, 8, 376.	5.8	193
156	Harvesting the Full Potential of Photons with Organic Solar Cells. Advanced Materials, 2016, 28, 1482-1488.	11.1	190
157	Conjugated Zwitterionic Polyelectrolyte as the Charge Injection Layer for High-Performance Polymer Light-Emitting Diodes. Journal of the American Chemical Society, 2011, 133, 683-685.	6.6	189
158	The Physics of Light Emission in Halide Perovskite Devices. Advanced Materials, 2019, 31, e1803336.	11.1	189
159	Synthesis and Electronic Structure of Platinum-Containing Polyynes with Aromatic and Heteroaromatic Rings. Macromolecules, 1998, 31, 722-727.	2.2	188
160	Ultrathin Self-Assembled Layers at the ITO Interface to Control Charge Injection and Electroluminescence Efficiency in Polymer Light-Emitting Diodes. Advanced Materials, 1998, 10, 769-774.	11.1	186
161	On the Role of Single Regiodefects and Polydispersity in Regioregular Poly(3-hexylthiophene): Defect Distribution, Synthesis of Defect-Free Chains, and a Simple Model for the Determination of Crystallinity. Journal of the American Chemical Society, 2012, 134, 4790-4805.	6.6	185
162	Tuneable Singlet Exciton Fission and Triplet-Triplet Annihilation in an Orthogonal Pentacene Dimer. Advanced Functional Materials, 2015, 25, 5452-5461.	7.8	184

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