

Karl Leo

List of Publications by Citations

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197
papers

15,628
citations

59
h-index

122
g-index

212
ext. papers

17,318
ext. citations

10.8
avg, IF

6.69
L-index

#	Paper	IF	Citations
197	White organic light-emitting diodes with fluorescent tube efficiency. <i>Nature</i> , 2009 , 459, 234-8	50.4	2874
196	Highly efficient organic devices based on electrically doped transport layers. <i>Chemical Reviews</i> , 2007 , 107, 1233-71	68.1	1310
195	Highly Conductive PEDOT:PSS Electrode with Optimized Solvent and Thermal Post-Treatment for ITO-Free Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 1076-1081	15.6	1066
194	Doping of organic semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 9-43	1.6	425
193	Efficient Vacuum-Deposited Organic Solar Cells Based on a New Low-Bandgap Oligothiophene and Fullerene C60. <i>Advanced Materials</i> , 2006 , 18, 2872-2875	24	294
192	Organic p-i-n solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1-14	2.6	291
191	Quantification of energy loss mechanisms in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2010 , 97, 253305	3.4	272
190	Controlled doping of phthalocyanine layers by cosublimation with acceptor molecules: A systematic Seebeck and conductivity study. <i>Applied Physics Letters</i> , 1998 , 73, 3202-3204	3.4	267
189	Small-molecule solar cells-status and perspectives. <i>Nanotechnology</i> , 2008 , 19, 424001	3.4	254
188	Correlation of π -conjugated oligomer structure with film morphology and organic solar cell performance. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11064-7	16.4	243
187	Dicyanovinyl-Substituted Oligothiophenes: Structure-Property Relationships and Application in Vacuum-Processed Small Molecule Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 897-910	15.6	234
186	Color in the corners: ITO-free white OLEDs with angular color stability. <i>Advanced Materials</i> , 2013 , 25, 4006-13	24	212
185	Efficient Organic Tandem Solar Cells based on Small Molecules. <i>Advanced Functional Materials</i> , 2011 , 21, 3019-3028	15.6	206
184	Controlled p-type doping of polycrystalline and amorphous organic layers: Self-consistent description of conductivity and field-effect mobility by a microscopic percolation model. <i>Physical Review B</i> , 2001 , 64,	3.3	199
183	Efficiency and rate of spontaneous emission in organic electroluminescent devices. <i>Physical Review B</i> , 2012 , 85,	3.3	198
182	Ultrastable and efficient red organic light emitting diodes with doped transport layers. <i>Applied Physics Letters</i> , 2006 , 89, 061111	3.4	189
181	Band structure engineering in organic semiconductors. <i>Science</i> , 2016 , 352, 1446-9	33.3	186

180	Improvement of Transparent Metal Top Electrodes for Organic Solar Cells by Introducing a High Surface Energy Seed Layer. <i>Advanced Energy Materials</i> , 2013 , 3, 438-443	21.8	183
179	Efficient organic solar cells based on a double p-i-n architecture using doped wide-gap transport layers. <i>Applied Physics Letters</i> , 2005 , 86, 244102	3.4	177
178	Highly Conductive Polymer Anodes as Replacements for Inorganic Materials in High-Efficiency Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2007 , 19, 441-444	24	169
177	Impact of mesoscale order on open-circuit voltage in organic solar cells. <i>Nature Materials</i> , 2015 , 14, 434-27		154
176	Optimum mobility, contact properties, and open-circuit voltage of organic solar cells: A drift-diffusion simulation study. <i>Physical Review B</i> , 2012 , 85,	3.3	154
175	Bulk-heterojunction photovoltaic devices based on donor-acceptor organic small molecule blends. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 79, 81-92	6.4	154
174	Increased open-circuit voltage of organic solar cells by reduced donor-acceptor interface area. <i>Advanced Materials</i> , 2014 , 26, 3839-43	24	152
173	Organic narrowband near-infrared photodetectors based on intermolecular charge-transfer absorption. <i>Nature Communications</i> , 2017 , 8, 15421	17.4	146
172	Doped organic transistors operating in the inversion and depletion regime. <i>Nature Communications</i> , 2013 , 4, 2775	17.4	146
171	Efficiency enhancement of organic solar cells by fabricating periodic surface textures using direct laser interference patterning. <i>Advanced Materials</i> , 2012 , 24, 906-10	24	145
170	Fermi level shift and doping efficiency in p-doped small molecule organic semiconductors: A photoelectron spectroscopy and theoretical study. <i>Physical Review B</i> , 2012 , 86,	3.3	135
169	Elementary steps in electrical doping of organic semiconductors. <i>Nature Communications</i> , 2018 , 9, 1182	17.4	133
168	2-(2-Methoxyphenyl)-1,3-dimethyl-1H-benzimidazol-3-ium iodide as a new air-stable n-type dopant for vacuum-processed organic semiconductor thin films. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3999-4002	16.4	127
167	Nano-particle based scattering layers for optical efficiency enhancement of organic light-emitting diodes and organic solar cells. <i>Journal of Applied Physics</i> , 2013 , 113, 204502	2.5	125
166	Doped Organic Semiconductors: Trap-Filling, Impurity Saturation, and Reserve Regimes. <i>Advanced Functional Materials</i> , 2015 , 25, 2701-2707	15.6	123
165	Interrelation between crystal packing and small-molecule organic solar cell performance. <i>Advanced Materials</i> , 2012 , 24, 675-80	24	120
164	Water and oxygen induced degradation of small molecule organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1268-1277	6.4	118
163	Photoelectron spectroscopy study of systematically varied doping concentrations in an organic semiconductor layer using a molecular p-dopant. <i>Journal of Applied Physics</i> , 2009 , 106, 103711	2.5	117

162	Achieving High Efficiency and Improved Stability in ITO-Free Transparent Organic Light-Emitting Diodes with Conductive Polymer Electrodes. <i>Advanced Functional Materials</i> , 2013 , 23, 3763-3769	15.6	112
161	Polymer:Fullerene Bimolecular Crystals for Near-Infrared Spectroscopic Photodetectors. <i>Advanced Materials</i> , 2017 , 29, 1702184	24	105
160	In-situ conductivity and Seebeck measurements of highly efficient n-dopants in fullerene C60. <i>Applied Physics Letters</i> , 2012 , 100, 093304	3.4	105
159	Structural phase transition in pentacene caused by molecular doping and its effect on charge carrier mobility. <i>Organic Electronics</i> , 2012 , 13, 58-65	3.5	97
158	Get it white: color-tunable AC/DC OLEDs. <i>Light: Science and Applications</i> , 2015 , 4, e247-e247	16.7	92
157	ITO-Free, Small-Molecule Organic Solar Cells on Spray-Coated Copper-Nanowire-Based Transparent Electrodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1300737	21.8	91
156	Organic Solar Cells – The Path to Commercial Success. <i>Advanced Energy Materials</i> , 2021 , 11, 2002653	21.8	90
155	Phase-locked coherent modes in a patterned metal-organic microcavity. <i>Nature Photonics</i> , 2012 , 6, 322-326	35.9	88
154	Adjustable white-light emission from a photo-structured micro-OLED array. <i>Light: Science and Applications</i> , 2016 , 5, e16121	16.7	75
153	Molecular parameters responsible for thermally activated transport in doped organic semiconductors. <i>Nature Materials</i> , 2019 , 18, 242-248	27	73
152	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C and ZnPc. <i>Nature Materials</i> , 2018 , 17, 439-444	27	72
151	Zinc phthalocyanine – Influence of substrate temperature, film thickness, and kind of substrate on the morphology. <i>Thin Solid Films</i> , 2011 , 519, 3939-3945	2.2	72
150	Highly efficient organic multi-junction solar cells with a thiophene based donor material. <i>Applied Physics Letters</i> , 2014 , 105, 063306	3.4	70
149	Open-Circuit Voltage and Effective Gap of Organic Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5814-5821	15.6	68
148	Highly Efficient Color Stable Inverted White Top-Emitting OLEDs with Ultra-Thin Wetting Layer Top Electrodes. <i>Advanced Optical Materials</i> , 2013 , 1, 707-713	8.1	67
147	Fluorinated Zinc Phthalocyanine as Donor for Efficient Vacuum-Deposited Organic Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 405-414	15.6	65
146	Light trapping in organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2862-2874	1.6	64
145	We Want Our Photons Back: Simple Nanostructures for White Organic Light-Emitting Diode Outcoupling. <i>Advanced Functional Materials</i> , 2014 , 24, 2553-2559	15.6	61

144	Correlation of open-circuit voltage and energy levels in zinc-phthalocyanine: C60 bulk heterojunction solar cells with varied mixing ratio. <i>Physical Review B</i> , 2013 , 88,	3.3	61
143	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 2380	17.4	60
142	High-performance vertical organic transistors. <i>Small</i> , 2013 , 9, 3670-7	11	60
141	Contact Doping for Vertical Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 768-775	15.6	60
140	Pentacene Schottky diodes studied by impedance spectroscopy: Doping properties and trap response. <i>Physical Review B</i> , 2013 , 88,	3.3	59
139	Hybrid optical Tamm states in a planar dielectric microcavity. <i>Physical Review B</i> , 2011 , 83,	3.3	58
138	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019 , 10, 2466	17.4	56
137	Small Molecule Near-Infrared Boron Dipyrrromethene Donors for Organic Tandem Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13636-13639	16.4	56
136	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020 , 5, 828-846	73.3	54
135	A Review of Vertical Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1907113	15.6	49
134	Coherent mode coupling in highly efficient top-emitting OLEDs on periodically corrugated substrates. <i>Optics Express</i> , 2014 , 22, 7524-37	3.3	49
133	Correlation between morphology and performance of low bandgap oligothiophene:C60 mixed heterojunctions in organic solar cells. <i>Journal of Applied Physics</i> , 2010 , 107, 014517	2.5	49
132	Vertical organic transistors. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 443003	1.8	47
131	Phase separation analysis of bulk heterojunctions in small-molecule organic solar cells using zinc-phthalocyanine and C60. <i>Physical Review B</i> , 2012 , 85,	3.3	47
130	Eliminating Micro-Cavity Effects in White Top-Emitting OLEDs by Ultra-Thin Metallic Top Electrodes. <i>Advanced Optical Materials</i> , 2013 , 1, 921-925	8.1	46
129	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 1933-1954	19.54	44
128	Evaluation and Control of the Orientation of Small Molecules for Strongly Absorbing Organic Thin Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11600-11609	3.8	43
127	An all C60 vertical transistor for high frequency and high current density applications. <i>Applied Physics Letters</i> , 2012 , 101, 213303	3.4	41

126	Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. <i>Journal of Applied Physics</i> , 2009 , 106, 054509	2.5	40
125	Reverse dark current in organic photodetectors and the major role of traps as source of noise. <i>Nature Communications</i> , 2021 , 12, 551	17.4	40
124	Efficient flexible organic photovoltaics using silver nanowires and polymer based transparent electrodes. <i>Organic Electronics</i> , 2016 , 36, 68-72	3.5	35
123	Self-heating, bistability, and thermal switching in organic semiconductors. <i>Physical Review Letters</i> , 2013 , 110, 126601	7.4	35
122	Passivation of Molecular n-Doping: Exploring the Limits of Air Stability. <i>Advanced Functional Materials</i> , 2016 , 26, 3730-3737	15.6	34
121	Unusually High Optical Transmission in Ca:Ag Blend Films: High-Performance Top Electrodes for Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 6668-6676	15.6	34
120	Quantifying charge transfer energies at donor-acceptor interfaces in small-molecule solar cells with constrained DFTB and spectroscopic methods. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 473201	1.8	33
119	Controlling Tamm Plasmons for Organic Narrowband Near-Infrared Photodetectors. <i>ACS Photonics</i> , 2017 , 4, 2228-2234	6.3	33
118	Molecular doping for control of gate bias stress in organic thin film transistors. <i>Applied Physics Letters</i> , 2014 , 104, 013507	3.4	33
117	Color-stable, ITO-free white organic light-emitting diodes with enhanced efficiency using solution-processed transparent electrodes and optical outcoupling layers. <i>Organic Electronics</i> , 2014 , 15, 1028-1034	3.5	33
116	Highly efficient p-dopants in amorphous hosts. <i>Organic Electronics</i> , 2014 , 15, 365-371	3.5	32
115	Efficient semitransparent small-molecule organic solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 213306	3.4	32
114	Organic Power Electronics: Transistor Operation in the kA/cm Regime. <i>Scientific Reports</i> , 2017 , 7, 44713	4.9	31
113	Quantification of deep hole-trap filling by molecular p-doping: Dependence on the host material purity. <i>Organic Electronics</i> , 2013 , 14, 2348-2352	3.5	30
112	10.4% Efficient triple organic solar cells containing near infrared absorbers. <i>Applied Physics Letters</i> , 2016 , 108, 103302	3.4	30
111	Reduced contact resistance in top-contact organic field-effect transistors by interface contact doping. <i>Applied Physics Letters</i> , 2016 , 108, 103303	3.4	30
110	A Pulse-Biasing Small-Signal Measurement Technique Enabling 40 MHz Operation of Vertical Organic Transistors. <i>Scientific Reports</i> , 2018 , 8, 7643	4.9	30
109	Three-terminal RGB full-color OLED pixels for ultrahigh density displays. <i>Scientific Reports</i> , 2018 , 8, 9684	4.9	29

108	Aza-BODIPY dyes with heterocyclic substituents and their derivatives bearing a cyanide co-ligand: NIR donor materials for vacuum-processed solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10696-10703	13	28
107	Side chain variations on a series of dicyanovinyl-terthiophenes: a photoinduced absorption study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8437-46	2.8	28
106	Roadmap on organic/inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021 , 9, 109202	5.7	28
105	Self-heating effects in organic semiconductor crossbar structures with small active area. <i>Organic Electronics</i> , 2012 , 13, 2461-2468	3.5	27
104	PEDOT:PSS with embedded TiO ₂ nanoparticles as light trapping electrode for organic photovoltaics. <i>Applied Physics Letters</i> , 2016 , 108, 253302	3.4	27
103	Analyzing the n-Doping Mechanism of an Air-Stable Small-Molecule Precursor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1340-1346	9.5	26
102	Exciton Diffusion Length and Charge Extraction Yield in Organic Bilayer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604424	24	25
101	Hole mobility in thermally evaporated pentacene: Morphological and directional dependence. <i>Applied Physics Letters</i> , 2015 , 106, 233301	3.4	25
100	Thermally evaporated methylammonium-free perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7725-7733	7.1	24
99	Advanced Organic Permeable-Base Transistor with Superior Performance. <i>Advanced Materials</i> , 2015 , 27, 7734-9	24	24
98	Flexible, light trapping substrates for organic photovoltaics. <i>Applied Physics Letters</i> , 2016 , 109, 093301	3.4	24
97	Plasmon-Induced Sub-Bandgap Photodetection with Organic Schottky Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 5741-5747	15.6	23
96	Direct structuring of C60 thin film transistors by photo-lithography under ambient conditions. <i>Organic Electronics</i> , 2012 , 13, 506-513	3.5	23
95	Nonlinear Contact Effects in Staggered Thin-Film Transistors. <i>Physical Review Applied</i> , 2017 , 8,	4.3	23
94	From Fluorine to Fluorene: A Route to Thermally Stable aza-BODIPYs for Organic Solar Cell Application. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600152	6.4	22
93	Tuning Near-Infrared Absorbing Donor Materials: A Study of Electronic, Optical, and Charge-Transport Properties of aza-BODIPYs. <i>Chemistry of Materials</i> , 2017 , 29, 5525-5536	9.6	21
92	Effect of H- and J-Aggregation on the Photophysical and Voltage Loss of Boron Dipyrromethene Small Molecules in Vacuum-Deposited Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2684-2691	6.4	21
91	Optical display film as flexible and light trapping substrate for organic photovoltaics. <i>Optics Express</i> , 2016 , 24, A974-80	3.3	21

90	White organic light-emitting diodes with 4 nm metal electrode. <i>Applied Physics Letters</i> , 2015 , 107, 163303	3.4	21
89	Influence of Meso and Nanoscale Structure on the Properties of Highly Efficient Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501280	21.8	21
88	Boron dipyrromethene (BODIPY) with meso-perfluorinated alkyl substituents as near infrared donors in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18583-18591	13	21
87	Electric potential mapping by thickness variation: A new method for model-free mobility determination in organic semiconductor thin films. <i>Organic Electronics</i> , 2013 , 14, 3460-3471	3.5	20
86	Bidirectional operation of vertical organic triodes. <i>Journal of Applied Physics</i> , 2012 , 111, 044507	2.5	19
85	Color temperature tuning of white organic light-emitting diodes via spatial control of micro-cavity effects based on thin metal strips. <i>Organic Electronics</i> , 2015 , 26, 334-339	3.5	17
84	Operation mechanism of high performance organic permeable base transistors with an insulated and perforated base electrode. <i>Journal of Applied Physics</i> , 2016 , 120, 094501	2.5	17
83	High Electron Affinity Molecular Dopant CN6-CP for Efficient Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11660-11666	9.5	17
82	Transparent Conductive Metal Thin-Film Electrodes Structured by Direct Laser Interference Patterning. <i>Advanced Engineering Materials</i> , 2015 , 17, 1215-1219	3.5	16
81	Miniaturized VIS-NIR Spectrometers Based on Narrowband and Tunable Transmission Cavity Organic Photodetectors with Ultrahigh Specific Detectivity above 10 Jones. <i>Advanced Materials</i> , 2021 , 33, e2102967	24	16
80	Self-passivation of molecular n-type doping during air exposure using a highly efficient air-instable dopant. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2188-2198	1.6	15
79	Photonic confinement in laterally structured metal-organic microcavities. <i>Applied Physics Letters</i> , 2014 , 105, 051108	3.4	15
78	Efficient and low-voltage vertical organic permeable base light-emitting transistors. <i>Nature Materials</i> , 2021 , 20, 1007-1014	27	15
77	Balance of Horizontal and Vertical Charge Transport in Organic Field-Effect Transistors. <i>Physical Review Applied</i> , 2018 , 10,	4.3	15
76	Density of states determination in organic donor-acceptor blend layers enabled by molecular doping. <i>Journal of Applied Physics</i> , 2015 , 117, 245501	2.5	14
75	Microcavity-Enhanced Semitransparent Electrodes for Oligothiophene Small-Molecule Organic Solar Cells. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600518	6.4	13
74	Optically pumped lasing of an electrically active hybrid OLED-microcavity. <i>Applied Physics Letters</i> , 2018 , 112, 113301	3.4	13
73	Degradation of Sexithiophene Cascade Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502432	21.8	13

72	Reservoir computing with biocompatible organic electrochemical networks for brain-inspired biosignal classification. <i>Science Advances</i> , 2021 , 7,	14.3	13
71	Stacked Dual-Wavelength Near-Infrared Organic Photodetectors. <i>Advanced Optical Materials</i> , 2021 , 9, 2001784	8.1	13
70	Electrically Stable Organic Permeable Base Transistors for Display Applications. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900576	6.4	12
69	Controlling morphology: A vertical organic transistor with a self-structured permeable base using the bottom electrode as seed layer. <i>Applied Physics Letters</i> , 2015 , 107, 033301	3.4	12
68	Narrowband organic photodetectors - towards miniaturized, spectroscopic sensing. <i>Materials Horizons</i> , 2021 ,	14.4	12
67	Controlling and Optimizing Amplified Spontaneous Emission in Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35242-35249	9.5	12
66	Temperature-Dependent Charge-Transfer-State Absorption and Emission Reveal the Dominant Role of Dynamic Disorder in Organic Solar Cells. <i>Physical Review Applied</i> , 2021 , 15,	4.3	12
65	Optical In-Coupling in Organic Solar Cells. <i>Small Methods</i> , 2018 , 2, 1800123	12.8	12
64	Vertical Organic Thin-Film Transistors with an Anodized Permeable Base for Very Low Leakage Current. <i>Advanced Materials</i> , 2019 , 31, e1900917	24	11
63	High-Performance Ultra-Short Channel Field-Effect Transistor Using Solution-Processable Colloidal Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4025-4031	6.4	11
62	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017 , 7, 5397	4.9	11
61	Efficient Thermally Evaporated ECsPbI_3 Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100299	21.8	11
60	Non-Linear Self-Heating in Organic Transistors Reaching High Power Densities. <i>Scientific Reports</i> , 2018 , 8, 9806	4.9	11
59	Enhancing sub-bandgap external quantum efficiency by photomultiplication for narrowband organic near-infrared photodetectors. <i>Nature Communications</i> , 2021 , 12, 4259	17.4	11
58	Very Small Inverted Hysteresis in Vacuum-Deposited Mixed Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Energy Technology</i> , 2017 , 5, 1606-1611	3.5	10
57	Influence of aging climate and cathode adhesion on organic solar cell stability. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 1-7	6.4	10
56	Generating semi-metallic conductivity in polymers by laser-driven nanostructural reorganization. <i>Materials Horizons</i> , 2019 , 6, 2143-2151	14.4	10
55	The impact of molecular weight, air exposure and molecular doping on the charge transport properties and electronic defects in dithienyl-diketopyrrolopyrrole-thieno[3,2-b]thiophene copolymers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10827-10838	7.1	10

54	Degradation of Flexible, ITO-Free Oligothiophene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14709-16	9.5	10
53	Electrical Pumping of Perovskite Diodes: Toward Stimulated Emission. <i>Advanced Science</i> , 2021 , 8, e2101663	6.3	10
52	Reduced Intrinsic Non-Radiative Losses Allow Room-Temperature Triplet Emission from Purely Organic Emitters. <i>Advanced Materials</i> , 2021 , 33, e2101844	24	10
51	H-aggregated small molecular nanowires as near infrared absorbers for organic solar cells. <i>Organic Electronics</i> , 2017 , 45, 198-202	3.5	9
50	Modulating the Electronic and Solid-State Structure of Organic Semiconductors by Site-Specific Substitution: The Case of Tetrafluoropentacenes. <i>Chemistry - A European Journal</i> , 2020 , 26, 3420-3434	4.8	9
49	Ultrathin MoO ₃ Layers in Composite Metal Electrodes: Improved Optics Allow Highly Efficient Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2019 , 7, 1801262	8.1	9
48	Precise patterning of organic semiconductors by reactive ion etching. <i>Organic Electronics</i> , 2020 , 76, 105357	3.7	9
47	Controlling threshold voltage and leakage currents in vertical organic field-effect transistors by inversion mode operation. <i>Applied Physics Letters</i> , 2015 , 107, 233302	3.4	8
46	Directed Growth of Dendritic Polymer Networks for Organic Electrochemical Transistors and Artificial Synapses. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100586	6.4	8
45	Influence of organic ligands on the line shape of the Kondo resonance. <i>Physical Review B</i> , 2016 , 93,	3.3	7
44	Photomultiplication-Type Organic Photodetectors for Near-Infrared Sensing with High and Bias-Independent Specific Detectivity.. <i>Advanced Science</i> , 2022 , e2105113	13.6	7
43	Vertical organic permeable dual-base transistors for logic circuits. <i>Nature Communications</i> , 2020 , 11, 4725	17.4	7
42	Vacuum processed large area doped thin-film crystals: A new approach for high-performance organic electronics. <i>Materials Today Physics</i> , 2021 , 17, 100352	8	7
41	Heteroquinoid Merocyanine Dyes with High Thermal Stability as Absorber Materials in Vacuum-Processed Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 845-851	3.2	7
40	Integrated complementary inverters and ring oscillators based on vertical-channel dual-base organic thin-film transistors. <i>Nature Electronics</i> , 2021 , 4, 588-594	28.4	7
39	Optical Distance Measurement Based on Induced Nonlinear Photoresponse of High-Performance Organic Near-Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23239-23246	9.5	6
38	Doped Highly Crystalline Organic Films: Toward High-Performance Organic Electronics. <i>Advanced Science</i> , 2021 , 8, 2003519	13.6	6
37	Anodization for Simplified Processing and Efficient Charge Transport in Vertical Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2001703	15.6	5

36	Photopatternable solid electrolyte for integrable organic electrochemical transistors: operation and hysteresis. <i>Journal of Materials Chemistry C</i> ,	7.1	5
35	Modulation Doping for Threshold Voltage Control in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8664-8671	9.5	5
34	Solution-processed pseudo-vertical organic transistors based on TIPS-pentacene. <i>Materials Today Energy</i> , 2021 , 21, 100697	7	5
33	Intracavity metal contacts for organic microlasers. <i>Journal of Materials Research</i> , 2019 , 34, 571-578	2.5	4
32	Experimental and theoretical study of phase separation in ZnPc:C60 blends. <i>Organic Electronics</i> , 2015 , 27, 183-191	3.5	4
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