Hong-Zheng Chen

List of Publications by Citations

Source: https://exaly.com/author-pdf/5230613/hong-zheng-chen-publications-by-citations.pdf

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

16,846 61 301 120 h-index g-index citations papers 10.7 20,557 7.2 321 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
301	Graphene-like two-dimensional materials. <i>Chemical Reviews</i> , 2013 , 113, 3766-98	68.1	3191
300	Enhanced photovoltaic performance of CH3NH3PbI3 perovskite solar cells through interfacial engineering using self-assembling monolayer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2674	4 .1 6.4	514
299	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020 , 13, 635-645	35.4	462
298	Dopant-Free Hole-Transporting Material with a C3h Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2528-31	16.4	395
297	A spirobifluorene and diketopyrrolopyrrole moieties based non-fullerene acceptor for efficient and thermally stable polymer solar cells with high open-circuit voltage. <i>Energy and Environmental Science</i> , 2016 , 9, 604-610	35.4	316
296	Recent advances in perovskite solar cells: efficiency, stability and lead-free perovskite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11462-11482	13	307
295	New Phase for Organic Solar Cell Research: Emergence of Y-Series Electron Acceptors and Their Perspectives. <i>ACS Energy Letters</i> , 2020 , 5, 1554-1567	20.1	301
294	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, 1705208	24	272
293	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3073-3082	16.4	251
292	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , 2021 , 33, e2007231	24	243
291	Orientation Regulation of Phenylethylammonium Cation Based 2D Perovskite Solar Cell with Efficiency Higher Than 11%. <i>Advanced Energy Materials</i> , 2018 , 8, 1702498	21.8	240
290	Antibacterial activity of two-dimensional MoS2 sheets. <i>Nanoscale</i> , 2014 , 6, 10126-33	7.7	221
289	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , 2019 , 10, 2152	17.4	214
288	Transparent electrodes for organic optoelectronic devices: a review. <i>Journal of Photonics for Energy</i> , 2014 , 4, 040990	1.2	191
287	Efficient Organic Solar Cells with Non-Fullerene Acceptors. <i>Small</i> , 2017 , 13, 1701120	11	185
286	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001160	24	162
285	Molecular Engineered Hole-Extraction Materials to Enable Dopant-Free, Efficient p-i-n Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700012	21.8	159

(2015-2018)

284	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434	9.6	158
283	Vertically Oriented 2D Layered Perovskite Solar Cells with Enhanced Efficiency and Good Stability. Small, 2017 , 13, 1700611	11	158
282	Superhydrophobic cotton fabrics prepared by sol-gel coating of TiO and surface hydrophobization. <i>Science and Technology of Advanced Materials</i> , 2008 , 9, 035001	7.1	149
281	Recent progress in 2D/quasi-2D layered metal halide perovskites for solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11063-11077	13	144
280	Precisely Controlling the Position of Bromine on the End Group Enables Well-Regular Polymer Acceptors for All-Polymer Solar Cells with Efficiencies over 15. <i>Advanced Materials</i> , 2020 , 32, e2005942	24	144
279	Engineering crystalline structures of two-dimensional MoS2 sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7727-7733	13	124
278	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5954-5966	15.6	123
277	Interfacial engineering of self-assembled monolayer modified semi-roll-to-roll planar heterojunction perovskite solar cells on flexible substrates. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24254-24260	13	115
276	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021 , 5, 914-930	27.8	110
275	CH activation: making diketopyrrolopyrrole derivatives easily accessible. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2795	13	108
274	Highly Efficient Organic Solar Cells Consisting of Double Bulk Heterojunction Layers. <i>Advanced Materials</i> , 2017 , 29, 1606729	24	104
273	Solution-grown organic single-crystalline p-n junctions with ambipolar charge transport. <i>Advanced Materials</i> , 2013 , 25, 5762-6	24	104
272	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803769	24	102
271	Molecular electron acceptors for efficient fullerene-free organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3440-3458	3.6	101
270	Hierarchical architecture of WS2 nanosheets on graphene frameworks with enhanced electrochemical properties for lithium storage and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24128-24138	13	100
269	Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V. <i>Advanced Materials</i> , 2016 , 28, 9729-9734	24	98
268	Au nanoparticles on ultrathin MoS2 sheets for plasmonic organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14798-14806	13	98
267	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1712-1718	35.4	97

266	A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10659-10665	13	97
265	Thiocyanate assisted performance enhancement of formamidinium based planar perovskite solar cells through a single one-step solution process. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9430-9436	13	97
264	A Low-Temperature, Solution-Processable Organic Electron-Transporting Layer Based on Planar Coronene for High-performance Conventional Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1078	3 ² 4107	'93 ¹
263	Highly Efficient Sn/Pb Binary Perovskite Solar Cell via Precursor Engineering: A Two-Step Fabrication Process. <i>Advanced Functional Materials</i> , 2019 , 29, 1807024	15.6	88
262	A non-fullerene acceptor with a fully fused backbone for efficient polymer solar cells with a high open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14983-14987	13	87
261	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1800755	13.6	85
260	Graphene uniformly decorated with gold nanodots: in situ synthesis, enhanced dispersibility and applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8096		85
259	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9409-9413	16.4	84
258	Manipulating the Mixed-Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2019 , 31, e1901284	24	84
257	High-Performance Thickness Insensitive Perovskite Solar Cells with Enhanced Moisture Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1800438	21.8	83
256	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. <i>Advanced Materials</i> , 2020 , 32, e2001621	24	82
255	Preparation of superhydrophobic surfaces on cotton textiles. <i>Science and Technology of Advanced Materials</i> , 2008 , 9, 035008	7.1	82
254	Microcavity-enhanced light-trapping for highly efficient organic parallel tandem solar cells. <i>Advanced Materials</i> , 2014 , 26, 6778-84	24	81
253	One-Step Fabrication of CdS Nanorod Arrays via Solution Chemistry. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13457-13462	3.8	80
252	Revealing the effects of molecular packing on the performances of polymer solar cells based on ADCDA type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12132-12141	13	80
251	Active-layer evolution and efficiency improvement of (CH3NH3 3Bi2I9-based solar cell on TiO2-deposited ITO substrate. <i>Nano Research</i> , 2016 , 9, 2921-2930	10	78
250	Low temperature solution processed planar heterojunction perovskite solar cells with a CdSe nanocrystal as an electron transport/extraction layer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9087-909	970 ¹	75
249	A Tetraperylene Diimides Based 3D Nonfullerene Acceptor for Efficient Organic Photovoltaics. <i>Advanced Science</i> , 2015 , 2, 1500014	13.6	73

(2013-2017)

248	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9649-9654	13	72
247	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 121-128	7.8	72
246	A solution-processable bipolar diketopyrrolopyrrole molecule used as both electron donor and acceptor for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1902-1905	13	71
245	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1803-1915	7.8	70
244	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3777-3783	13	67
243	Effects of heteroatom substitution in spiro-bifluorene hole transport materials. <i>Chemical Science</i> , 2016 , 7, 5007-5012	9.4	66
242	Preparation of Single-Crystalline Heterojunctions for Organic Electronics. <i>Advanced Materials</i> , 2017 , 29, 1606101	24	65
241	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8040-8047	8.3	64
240	Solution-grown organic single-crystalline donor-acceptor heterojunctions for photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 956-60	16.4	61
239	An ester-functionalized diketopyrrolopyrrole molecule with appropriate energy levels for application in solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 105-111	13	60
238	Star-shaped D-A small molecules based on diketopyrrolopyrrole and triphenylamine for efficient solution-processed organic solar cells. <i>ACS Applied Materials & Description</i> , 1972-80	9.5	58
237	Visible-Light Ultrasensitive Solution-Prepared Layered OrganicIhorganic Hybrid Perovskite Field-Effect Transistor. <i>Advanced Optical Materials</i> , 2017 , 5, 1600539	8.1	58
236	Novel planar heterostructure perovskite solar cells with CdS nanorods array as electron transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 396-404	6.4	57
235	Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. Journal of Materials Chemistry A, 2019 , 7, 27632-27639	13	57
234	Solution-processed CuO as an efficient hole-extraction layer for inverted planar heterojunction perovskite solar cells. <i>Chinese Chemical Letters</i> , 2017 , 28, 13-18	8.1	56
233	Boosting the electron mobility of solution-grown organic single crystals via reducing the amount of polar solvent residues. <i>Materials Horizons</i> , 2016 , 3, 119-123	14.4	56
232	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12964-12970	16.4	56
231	Ambient roll-to-roll fabrication of flexible solar cells based on small molecules. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 8007	7.1	55

230	Toward Highly Efficient Large-Area ITO-Free Organic Solar Cells with a Conductance-Gradient Transparent Electrode. <i>Advanced Materials</i> , 2015 , 27, 6983-9	24	54
229	Low-Temperature Solution Processed Utraviolet Photodetector Based on an Ordered TiO2 Nanorod Array P olymer Hybrid. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13438-13445	3.8	54
228	Manipulating the D:A interfacial energetics and intermolecular packing for 19.2% efficiency organic photovoltaics. <i>Energy and Environmental Science</i> ,	35.4	54
227	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. <i>ACS Applied Materials & Description of the Applied Materials & Description of t</i>	9.5	53
226	Ambipolar charge transport of TIPS-pentacene single-crystals grown from non-polar solvents. <i>Materials Horizons</i> , 2015 , 2, 344-349	14.4	53
225	Biomolecule-assisted hydrothermal synthesis of In2S3 porous films and enhanced photocatalytic properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13327		53
224	Ultra-stable two-dimensional MoS2 solution for highly efficient organic solar cells. <i>RSC Advances</i> , 2014 , 4, 32744-32748	3.7	51
223	Near-Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. <i>Small Methods</i> , 2019 , 3, 1900531	12.8	50
222	Functionalizing single crystals: incorporation of nanoparticles inside gel-grown calcite crystals. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4127-31	16.4	49
221	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , 2021 , 5, 945-957	27.8	49
220	Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. <i>ACS Applied Materials & Description of Solar Cells</i> , 10, 42444-42452	9.5	49
219	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9396-9401	13	48
218	ZnO/poly(9,9-dihexylfluorene) based inorganic/organic hybrid ultraviolet photodetector. <i>Applied Physics Letters</i> , 2008 , 93, 153309	3.4	48
217	Fluoroperylene diimide: a soluble and air-stable electron acceptor. <i>Chemical Communications</i> , 2003 , 17	10 5.8	48
216	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-20	58 7.9	48
215	Interfacing Solution-Grown C and (3-Pyrrolinium)(CdCl) Single Crystals for High-Mobility Transistor-Based Memory Devices. <i>Advanced Materials</i> , 2015 , 27, 4476-4480	24	45
214	MoO3Au composite interfacial layer for high efficiency and air-stable organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 797-803	3.5	45
213	Donor-Acceptor Conjugated Macrocycles: Synthesis and Host-Guest Coassembly with Fullerene toward Photovoltaic Application. <i>ACS Nano</i> , 2017 , 11, 11701-11713	16.7	44

212	Easy incorporation of single-walled carbon nanotubes into two-dimensional MoSIfor high-performance hydrogen evolution. <i>Nanotechnology</i> , 2014 , 25, 465401	3.4	44	
211	Semitransparent Organic Solar Cells with Vivid Colors. <i>ACS Energy Letters</i> , 2020 , 5, 3115-3123	20.1	43	
210	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. <i>Nano Energy</i> , 2019 , 63, 103807	17.1	42	
209	Low-bandgap mixed tinlead iodide perovskite with large grains for high performance solar cells. Journal of Materials Chemistry A, 2018 , 6, 13090-13095	13	42	
208	Solution-grown aligned C60 single-crystals for field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3617	7.1	42	
207	High efficiency hybrid solar cells using post-deposition ligand exchange by monothiols. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12094-8	3.6	42	
206	Improved photon-to-electron response of ternary blend organic solar cells with a low band gap polymer sensitizer and interfacial modification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1702-1707	13	41	
205	Single-crystalline lead halide perovskite arrays for solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1214-1217	13	41	
204	Roll-coating fabrication of flexible large area small molecule solar cells with power conversion efficiency exceeding 1%. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19809-19814	13	40	
203	Incorporation of ester groups into low band-gap diketopyrrolopyrrole containing polymers for solar cell applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15710		40	
202	Non-fullerene Acceptors with a Thieno[3,4-c]pyrrole-4,6-dione (TPD) Core for Efficient Organic Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019 , 37, 1005-1014	3.5	38	
201	A diketopyrrolopyrrole molecule end-capped with a furan-2-carboxylate moiety: the planarity of molecular geometry and photovoltaic properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6589	13	38	
200	A Simple Electron Acceptor with Unfused Backbone for Polymer Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 394-400	3.8	38	
199	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties. <i>Chemistry of Materials</i> , 2016 , 28, 7537-7543	9.6	38	
198	Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 513-519	7.8	37	
197	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1910466	15.6	36	
196	Preparation of Nano-Structured Polyaniline Composite Film via Carbon Nanotubes Seeding Approach and its Gas-Response Studies. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 75-82	3.9	36	
195	Black Phosphorus Quantum Dots Induced High-Quality Perovskite Film for Efficient and Thermally Stable Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900132	7.1	35	

194	Controlled crystallization of CH3NH3PbI3 films for perovskite solar cells by various PbI2(X) complexes. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 331-340	6.4	35
193	Highly Efficient Guanidinium-Based Quasi 2D Perovskite Solar Cells via a Two-Step Post-Treatment Process. <i>Small Methods</i> , 2019 , 3, 1900375	12.8	35
192	A high-quality round-shaped monolayer MoS2 domain and its transformation. <i>Nanoscale</i> , 2016 , 8, 219-2	25 _{7.7}	34
191	Graphene Nucleation Preferentially at Oxygen-Rich Cu Sites Rather Than on Pure Cu Surface. <i>Advanced Materials</i> , 2015 , 27, 6404-10	24	34
190	Modulate Organic-Metal Oxide Heterojunction via [1,6] Azafulleroid for Highly Efficient Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 7269-75	24	34
189	Solution-Processed 8-Hydroquinolatolithium as Effective Cathode Interlayer for High-Performance Polymer Solar Cells. <i>ACS Applied Materials & Effective Cathode Interlayer for High-Performance Polymer Solar Cells.</i>	9.5	34
188	High efficient UV-A photodetectors based on monodispersed ligand-capped TiO2 nanocrystals and polyfluorene hybrids. <i>Polymer</i> , 2010 , 51, 3736-3743	3.9	33
187	Direct observation of microscopic photoinduced charge redistribution on TiO2 film sensitized by chloroaluminum phthalocyanine and perylenediimide. <i>Applied Physics Letters</i> , 2003 , 83, 1896-1898	3.4	33
186	Enhancement of intra- and inter-molecular Econjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2006-2012	7.8	33
185	Perovskite/Organic Bulk-Heterojunction Integrated Ultrasensitive Broadband Photodetectors with High Near-Infrared External Quantum Efficiency over 70. <i>Small</i> , 2018 , 14, e1802349	11	33
184	Additive-Assisted Hot-Casting Free Fabrication of Dion Dacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , 2020 , 4, 2000087	7.1	32
183	Interfacial engineering enables high efficiency with a high open-circuit voltage above 1.23 V in 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18010-18017	13	32
182	Diketo-pyrrolo-pyrrole-Based Medium Band Gap Copolymers for Efficient Plastic Solar Cells: Morphology, Transport, and Composition-Dependent Photovoltaic Behavior. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11282-11292	3.8	32
181	Electronic properties of polymorphic two-dimensional layered chromium disulphide. <i>Nanoscale</i> , 2019 , 11, 20123-20132	7.7	32
180	Solution-Grown Organic Single-Crystal Field-Effect Transistors with Ultrahigh Response to Visible-Blind and Deep UV Signals. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500136	6.4	31
179	Stable Quasi-2D Perovskite Solar Cells with Efficiency over 18% Enabled by HeatIlight Co-Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 2004188	15.6	31
178	An aqueous solution-processed CuOX film as an anode buffer layer for efficient and stable organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5130-5136	13	30
177	Boosting OrganicMetal Oxide Heterojunction via Conjugated Small Molecules for Efficient and Stable Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1900887	21.8	30

176	Comparison of additive amount used in spin-coated and roll-coated organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19542-19549	13	30	
175	Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor ceptor polymers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1785-1793	13	30	
174	Engineering the underlying surface to manipulate the growth of 2D perovskites for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14027-14032	13	29	
173	Two-dimensional inverted planar perovskite solar cells with efficiency over 15% via solvent and interface engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18980-18986	13	29	
172	Improving polymer/nanocrystal hybrid solar cell performance via tuning ligand orientation at CdSe quantum dot surface. <i>ACS Applied Materials & Damp; Interfaces</i> , 2014 , 6, 19154-60	9.5	29	
171	Polymer Modification on the NiO Hole Transport Layer Boosts Open-Circuit Voltage to 1.19 V for Perovskite Solar Cells. <i>ACS Applied Materials & English Solar Cells</i> , 12, 46340-46347	9.5	29	
170	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 4627	17.4	29	
169	Desired open-circuit voltage increase enables efficiencies approaching 19% in symmetric-asymmetric molecule ternary organic photovoltaics. <i>Joule</i> , 2022 , 6, 662-675	27.8	29	
168	Three-dimensional molecular donors combined with polymeric acceptors for high performance fullerene-free organic photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22162-22169	13	28	
167	Electrochemical Synthesis and Charge Transport Properties of CdS Nanocrystalline Thin Films with a Conifer-like Structure. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11911-11917	3.8	27	
166	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , 2022 , 32, 2107827	15.6	27	
165	Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18154-18161	13	27	
164	Exploring oxygen in graphene chemical vapor deposition synthesis. <i>Nanoscale</i> , 2017 , 9, 3719-3735	7.7	26	
163	An inverted planar solar cell with 13% efficiency and a sensitive visible light detector based on orientation regulated 2D perovskites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24633-24640	13	26	
162	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , 2019 , 12, 777-783	10	25	
161	Conductive fullerene surfactants via anion doping as cathode interlayers for efficient organic and perovskite solar cells. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 2845-2851	5.2	25	
160	Alignment and patterning of organic single crystals for field-effect transistors. <i>Chinese Chemical Letters</i> , 2016 , 27, 1421-1428	8.1	25	
159	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. <i>Solar Rrl</i> , 2019 , 3, 1900317	7.1	24	

158	Elucidation of Zero-Dimensional to Two-Dimensional Growth Transition in MoS2 Chemical Vapor Deposition Synthesis. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600687	4.6	24
157	Design and synthesis of dithieno[3,2-b:2?3?-d]pyrrole-based conjugated polymers for photovoltaic applications: consensus between low bandgap and low HOMO energy level. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 1453-1461	2.5	24
156	Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. <i>ACS Applied Materials & District Mat</i>	9.5	24
155	Organic Heterojunctions Formed by Interfacing Two Single Crystals from a Mixed Solution. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10007-10015	16.4	23
154	Texture design of electrodes for efficiency enhancement of organic solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2379	13	23
153	Poly(vinyl alcohol)-Encapsulated Hydrophilic Carbon Black Nanoparticles Free from Aggregation. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 715-717	4.8	23
152	Stable Bimetallic Polyphthalocyanine Covalent Organic Frameworks as Superior Electrocatalysts. Journal of the American Chemical Society, 2021 , 143, 18052-18060	16.4	23
151	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3049	17.4	23
150	Mitigating the Lead Leakage of High-Performance Perovskite Solar Cells via In Situ Polymerized Networks. <i>ACS Energy Letters</i> ,3443-3449	20.1	23
149	Highly efficient and thermal stable guanidinium-based two-dimensional perovskite solar cells via partial substitution with hydrophobic ammonium. <i>Science China Chemistry</i> , 2019 , 62, 859-865	7.9	22
148	Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. <i>IScience</i> , 2019 , 22, 534-543	6.1	22
147	Preparation and optoelectronic properties of a novel poly(N-vinylcarbazole) with covalently bonded titanium dioxide. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 882-888	2.9	22
146	Silver nanowire-graphene hybrid transparent conductive electrodes for highly efficient inverted organic solar cells. <i>Nanotechnology</i> , 2017 , 28, 305402	3.4	21
145	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14153-	14762	21
144	Roll-coating fabrication of ITO-free flexible solar cells based on a non-fullerene small molecule acceptor. <i>RSC Advances</i> , 2015 , 5, 36001-36006	3.7	21
143	Organic functional materials based buffer layers for efficient perovskite solar cells. <i>Chinese Chemical Letters</i> , 2017 , 28, 503-511	8.1	21
142	Semiconductive Covalent Organic Frameworks: Structural Design, Synthesis, and Application. <i>Small Structures</i> , 2020 , 1, 2000021	8.7	21
141	Highly efficient hybrid solar cells with tunable dipole at the donor-acceptor interface. <i>Nanoscale</i> , 2014 , 6, 10545-50	7.7	20

140	Stable titanium dioxide grafted with poly [N-(p-vinyl benzyl) phthalimide] composite particles in suspension for electrophoretic displays. <i>Colloid and Polymer Science</i> , 2011 , 289, 401-407	2.4	20
139	Photoinduced Electron Transfer and Enhancement of Photoconductivity in Silicon Nanoparticles/Perylene Diimide Composites in a Polymer Matrix. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15865-15869	3.8	20
138	Gas-Response Studies of Polyaniline Composite Film Containing Zeolite to Chemical Vapors. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1539-1546	3.9	20
137	Multifunctional semitransparent organic solar cells with excellent infrared photon rejection. <i>Chinese Chemical Letters</i> , 2020 , 31, 1608-1611	8.1	20
136	Conjugated Polymers for Photon-to-Electron and Photon-to-Fuel Conversions. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 60-92	4.3	20
135	High-Performance Semi-Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. <i>Advanced Energy Materials</i> , 2021 , 11, 2003408	21.8	20
134	Achieving high-performance thick-film perovskite solar cells with electron transporting Bingel fullerenes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15495-15503	13	19
133	Solvation effect in precursor solution enables over 16% efficiency in thick 2D perovskite solar cells. Journal of Materials Chemistry A, 2019 , 7, 19423-19429	13	19
132	Bulk-Heterojunction with Long-Range Ordering: C Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1630-1635	16.4	19
131	Mitigating Dark Current for High-Performance Near-Infrared Organic Photodiodes via Charge Blocking and Defect Passivation. <i>ACS Applied Materials & Defect Passivation</i> 13, 16766-16774	9.5	19
130	A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. <i>Chinese Chemical Letters</i> , 2019 , 30, 1277-1281	8.1	19
129	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. <i>Nano Research</i> , 2017 , 10, 3765-3774	10	18
128	CYM and RGB colored electronic inks based on silica-coated organic pigments for full-color electrophoretic displays. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 843-849	7.1	18
127	Recent advances in plasmonic organic photovoltaics. <i>Science China Chemistry</i> , 2015 , 58, 210-220	7.9	18
126	Unique synthesis of graphene-based materials for clean energy and biological sensing applications. <i>Science Bulletin</i> , 2012 , 57, 3000-3009		18
125	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18 <i>Nature Communications</i> , 2022 , 13, 2598	17.4	18
124	Long-range ordering of composites for organic electronics: TIPS-pentacene single crystals with incorporated nano-fibers. <i>Chinese Chemical Letters</i> , 2017 , 28, 2121-2124	8.1	17
123	Gel-incorporated PbS and PbI2 single-crystals. <i>Chinese Chemical Letters</i> , 2015 , 26, 504-508	8.1	17

122	Effect of Solvent-Assisted Nanoscaled Organo-Gels on Morphology and Performance of Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16893-16900	3.8	17
121	Morphology evolution route of PbS crystals via environment-friendly electrochemical deposition. <i>CrystEngComm</i> , 2011 , 13, 4689	3.3	17
120	Preparation of water soluble poly(aniline) and its gas-sensitivity. <i>Green Chemistry</i> , 2005 , 7, 507	10	17
119	Improved photovoltaic performance from high quality perovskite thin film grown with the assistance of PC71BM. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 309-316	3.5	16
118	Design of charge transporting grids for efficient ITO-free flexible up-scaled organic photovoltaics. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 304-309	7.8	16
117	Boosting photovoltaic performance of ternary organic solar cells by integrating a multi-functional guest acceptor. <i>Nano Energy</i> , 2021 , 90, 106538	17.1	16
116	Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , 2021 ,	28.7	16
115	A-D-A small molecule donors based on pyrene and diketopyrrolopyrrole for organic solar cells. <i>Science China Chemistry</i> , 2017 , 60, 561-569	7.9	15
114	Hydrogen bond enables highly efficient and stable two-dimensional perovskite solar cells based on 4-pyridine-ethylamine. <i>Organic Electronics</i> , 2019 , 67, 122-127	3.5	15
113	Gel network incorporation into single-crystals: effects of gel structures and crystalgel interaction. <i>CrystEngComm</i> , 2014 , 16, 6901	3.3	15
112	From Solid Carbon Sources to Graphene. Chinese Journal of Chemistry, 2016, 34, 32-40	4.9	15
111	Enhanced performance of inverted non-fullerene organic solar cells through modifying zinc oxide surface with self-assembled monolayers. <i>Organic Electronics</i> , 2018 , 63, 143-148	3.5	15
110	Manipulation of optical field distribution in ITO-free micro-cavity polymer tandem solar cells via the out-of-cell capping layer for high photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 961-968	13	14
109	Design and synthesis of carbonyl group modified conjugated polymers for photovoltaic application. <i>Polymer Bulletin</i> , 2012 , 68, 1867-1877	2.4	14
108	Sb2O3 anode buffer induced morphology improvement in small molecule organic solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 183306	3.4	14
107	Gas sensing behavior of nano-structured polypyrrole prepared by Barbon nanotubes seeding approach. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 289-296	2.3	14
106	Compromising Charge Generation and Recombination with Asymmetric Molecule for High-Performance Binary Organic Photovoltaics with Over 18% Certified Efficiency. <i>Advanced Functional Materials</i> ,2112511	15.6	14
105	Synthesis and fast transfer of monolayer MoS on reusable fused silica. <i>Nanoscale</i> , 2017 , 9, 6984-6990	7.7	13

104	A non-fullerene electron acceptor with a spirobifluorene core and four diketopyrrolopyrrole arms end capped by 4-fluorobenzene. <i>Dyes and Pigments</i> , 2017 , 143, 217-222	4.6	13
103	Exploiting Two-Step Processed Mixed 2D/3D Perovskites for Bright Green Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2019 , 7, 1900465	8.1	13
102	Electron-deficient core fused-ring based non-Fullerene acceptor enables over 15% efficiency in single junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 403-404	7.9	13
101	Toward Efficient Triple-Junction Polymer Solar Cells through Rational Selection of Middle Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1771-1779	20.1	13
100	Partially reversible photochromic behavior of organic-inorganic perovskites with copper(II) chloride. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 710-715	2.1	13
99	Microcapsule-based materials for electrophoretic displays. <i>Journal of Materials Research</i> , 2012 , 27, 653-	-663	13
98	A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. <i>Advanced Functional Materials</i> ,2108614	15.6	13
97	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. <i>Energy and Environmental Science</i> ,	35.4	13
96	Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10806-10813	16.4	13
95	Facilitate charge transfer at donor/acceptor interface in bulk heterojunction organic photovoltaics by two-dimensional nanoflakes. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 190, 75-82	6.4	13
94	Simply planarizing nonfused perylene diimide based acceptors toward promising non-fullerene solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8092-8100	7.1	12
93	Low temperature processed ITO-free perovskite solar cells without a hole transport layer. <i>RSC Advances</i> , 2015 , 5, 94752-94758	3.7	12
92	Low Cost Universal High-k Dielectric for Solution Processing and Thermal Evaporation Organic Transistors. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300119	4.6	12
91	Aqueous solution-processed NiOx anode buffer layers applicable for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 747-753	2.5	12
90	Narrowband Near-Infrared Photodetector Enabled by Dual Functional Internal-Filter-Induced Selective Charge Collection. <i>Advanced Optical Materials</i> , 2021 , 9, 2100288	8.1	12
89	Merged interface construction toward ultra-low Voc loss in inverted two-dimensional Dion Dacobson perovskite solar cells with efficiency over 18%. <i>Journal of Materials Chemistry A</i> ,	13	12
88	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry,	7.9	12
87	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 9509-9513	3.6	11

86	Solution-Grown Organic Single-Crystalline Donor Acceptor Heterojunctions for Photovoltaics. <i>Angewandte Chemie</i> , 2015 , 127, 970-974	3.6	11
85	Electron transport in solution-grown TIPS-pentacene single crystals: Effects of gate dielectrics and polar impurities. <i>Chinese Chemical Letters</i> , 2016 , 27, 1781-1787	8.1	11
84	Constructing bulk-contact inside single crystals of organic semiconductors through gel incorporation. <i>CrystEngComm</i> , 2016 , 18, 800-806	3.3	11
83	Modulate Molecular Interaction between Hole Extraction Polymers and Lead Ions toward Hysteresis-Free and Efficient Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800090	4.6	11
82	High-efficiency organic solar cells with low voltage-loss of 0.46 V. <i>Chinese Chemical Letters</i> , 2020 , 31, 1991-1996	8.1	11
81	Highly efficient perovskite solar cells fabricated by simplified one-step deposition method with non-halogenated anti-solvents. <i>Organic Electronics</i> , 2018 , 59, 330-336	3.5	11
80	Marcus Hole Transfer Governs Charge Generation and Device Operation in Nonfullerene Organic Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 2971-2981	20.1	11
79	Electron transport at the interface of organic semiconductors and hydroxyl-containing dielectrics. Journal of Materials Chemistry C, 2018 , 6, 12001-12005	7.1	10
78	Visualizing the toughening origins of gel-grown calcite single-crystal composites. <i>Chinese Chemical Letters</i> , 2018 , 29, 1666-1670	8.1	10
77	A facile nanotemplate preparation method for [60]fullerene nanofibres: surface-wetting. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4318		10
76	Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 819-827	6.1	10
75	Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. <i>Solar Rrl</i> , 2020 , 4, 2000286	7.1	10
74	Patterning the Internal Structure of Single Crystals by Gel Incorporation. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	9
73	PbI2 band gap engineering by gel incorporation. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 362-368	7.8	9
72	Inverted Perovskite Solar Cells Based on Small Molecular Hole Transport Material C8-Dioctylbenzothienobenzothiophene. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1239-1244	4.9	9
71	Versatility and robustness of ZnO:Cs electron transporting layer for printable organic solar cells. <i>RSC Advances</i> , 2015 , 5, 49369-49375	3.7	9
70	Synthetic polymer/single-crystal composite. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1189-1194	3.2	9
69	Performance enhancement of CdS nanorod arrays/P3HT hybrid solar cells via N719 dye interface modification. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 879-884	3.5	9

(2021-2010)

68	Nonsurfactant synthesis of PbS crystals via electrodeposition and hydrothermal methods: from octahedron to maya-pyramid. <i>CrystEngComm</i> , 2010 , 12, 1893	3.3	9
67	Synthesis and photoconductivity study of phthalocyanine polymers. IV. [SiPcNHCH2CH2NH]n. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 959-964	2.5	9
66	Preparation and ionic conductivity of solid polymer electrolyte based on polyacrylonitrile-polyethylene oxide. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 461-464	2.9	9
65	An Ink-Composition Engineering Approach for Upscaling of Organic Solar Cells with High-Efficiency Retention Factor. <i>Solar Rrl</i> , 2020 , 4, 2000246	7.1	9
64	Shape change of calcite single crystals to accommodate interfacial curvature: Crystallization in presence of Mg 2+ ions and agarose gel-networks. <i>Chinese Chemical Letters</i> , 2017 , 28, 857-862	8.1	8
63	Water soluble amino grafted silicon nanoparticles and their use in polymer solar cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 395-401	3.5	8
62	Functionalizing Single Crystals: Incorporation of Nanoparticles Inside Gel-Grown Calcite Crystals. <i>Angewandte Chemie</i> , 2014 , 126, 4211-4215	3.6	8
61	Charge transport at hybrid bulk heterojunction based on CdS nanopillar arrays embedded in a conducting polymer. <i>Journal of Applied Physics</i> , 2009 , 106, 073701	2.5	8
60	Unusual electrical response of a poly(aniline) composite film on exposure to a basic atmosphere and its application to sensors. <i>Green Chemistry</i> , 2006 , 8, 63-69	10	8
59	A nuanced approach for assessing OPV materials for large scale applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 940-949	5.8	8
58	Universal Bottom Contact Modification with Diverse 2D Spacers for High-Performance Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2104036	15.6	8
57	Novel cost-effective acceptor:P3HT based organic solar cells exhibiting the highest ever reported industrial readiness factor. <i>Materials Advances</i> , 2020 , 1, 658-665	3.3	7
56	A Nanoparticle Approach towards Morphology Controlled Organic Photovoltaics (OPV). <i>Polymers</i> , 2012 , 4, 1242-1258	4.5	7
55	Synthesis and photoconductivity study of phthalocyanine polymers. V. 4,4?-diamino-diphenyl ether bridged polymeric SiPc. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 91-95	2.5	7
54	Oxidative polymerization of pyrrole in the presence of a poly (sodium-p-styrenesulfonate) and its gas-responses. <i>Journal of Materials Science</i> , 2006 , 41, 7604-7610	4.3	7
53	Preparation and characterization of chloroindium phthalocyanine nanoparticles from complexation-mediated solubilization. <i>Journal of Materials Science</i> , 2003 , 38, 4021-4025	4.3	7
52	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Non-Fullerene Acceptors with Quinoxaline as the Core. <i>ChemSusChem</i> , 2021 , 14, 3599-3606	8.3	7
51	Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111046	6.4	7

50	Enhanced performance of field-effect transistors based on C60 single crystals with conjugated polyelectrolyte. <i>Science China Chemistry</i> , 2017 , 60, 490-496	7.9	6
49	Two-step hydrothermal synthesis of sodium tantalate nanoparticles with deep ultraviolet sensitivity. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9346-9352	7.1	6
48	Intrinsically Substitutional Carbon Doping in CVD-Grown Monolayer MoS2 and the Band Structure Modulation. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1055-1064	4	6
47	Sn-Pb Binary Perovskite Films with High Crystalline Quality for High Performance Solar Cells. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1031-1035	4.9	6
46	A novel electrochemically and thermally stable polythiophene for photovoltaic application. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 161-168	2.9	6
45	Improved Photovoltaic Performance of MEH-PPV/PCBM Solar Cells via Incorporation of Si Nanocrystals. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1380-1384	4.9	6
44	Donor-acceptor (D-A) terpolymers based on alkyl-DPP and t -BocDPP moieties for polymer solar cells. <i>Chinese Chemical Letters</i> , 2017 , 28, 2223-2226	8.1	6
43	Narrow bandgap semiconducting polymers for solar cells with near-infrared photo response and low energy loss. <i>Tetrahedron Letters</i> , 2017 , 58, 2975-2980	2	6
42	Two-dimensional perovskite solar cells with high luminescence and ultra-low open-circuit voltage deficit. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22175-22180	13	6
41	Intrinsically Chemo- and Thermostable Electron Acceptors for Efficient Organic Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 183-190	5.1	6
40	High-Efficiency ITO-Free Organic Photovoltaics with Superior Flexibility and Up-Scalability <i>Advanced Materials</i> , 2022 , e2200044	24	6
39	Polymorphic Phase-Dependent Optical and Electrical Properties of a Diketopyrrolopyrrole-Based Small Molecule. <i>ACS Applied Materials & Small Molecule</i> , 8, 20916-27	9.5	5
38	Assessing the synergy effect of additive and matrix on single-crystal growth: Morphological revolution resulted from gel-mediated enhancement on CIT-calcite interaction. <i>Chinese Chemical Letters</i> , 2018 , 29, 1296-1300	8.1	5
37	Effects of Material Morphology on the Performance of Organic Electronics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 12-26	3.2	5
36	Microcapsules with compact wall from hydrocarbon/fluorocarbon composite surfactants for electrophoretic display. <i>Science China Chemistry</i> , 2011 , 54, 385-391	7.9	5
35	Efficient and stable inverted perovskite solar cells incorporating 4-Fluorobenzylammonium iodide. <i>Organic Electronics</i> , 2021 , 92, 106124	3.5	5
34	Influence of Bridging Groups on the Photovoltaic Properties of Wide-Bandgap Poly(BDTT-alt-BDD)s. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 1394-1401	9.5	5
33	High-Performance Organic Solar Modules via the Bilayer-Merged-Annealing Assisted Blading Coating <i>Advanced Materials</i> , 2022 , e2110569	24	5

(2021-2014)

32	Crystal growth and characterization of fluorinated perylene diimides. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 63-67	2.2	4	
31	Partially crosslinked P(SMA-DMA-St) copolymer in situ modified RGB tricolor pigment particles for chromatic electrophoretic display. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 645-653	2.9	4	
30	CNT-based organic-inorganic composite materials with optoelectronic functionality. <i>Research on Chemical Intermediates</i> , 2008 , 34, 115-125	2.8	4	
29	Manipulating Perovskite Precursor Solidification toward 21% Pristine MAPbI3 Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100114	7.1	4	
28	Elucidation of heterogeneous graphene nucleation and growth through Cu surface engineering. <i>Carbon</i> , 2019 , 147, 120-125	10.4	3	
27	Additive-Assisted Hot-Casting Free Fabrication of Dionlacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , 2020 , 4, 2070074	7.1	3	
26	Recent development of organic electron transport materials. <i>Progress in Natural Science: Materials International</i> , 2003 , 13, 81-87	3.6	3	
25	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie</i> , 2021 , 133, 13074-13080	3.6	3	
24	High-Performance Upscaled Indium Tin OxideBree Organic Solar Cells with Visual Esthetics and Flexibility. <i>Solar Rrl</i> , 2021 , 5, 2100339	7.1	3	
23	Tuning interfacial chemical interaction for high-performance perovskite solar cell with PEDOT:PSS as hole transporting layer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14920-14927	13	3	
22	A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. <i>Macromolecules</i> , 2021 , 54, 7862-7869	5.5	3	
21	Manipulating the film morphology evolution toward green solvent-processed perovskite solar cells. <i>SusMat</i> , 2021 , 1, 537-544		3	
20	Phosphate ester side-chain-modified conjugated polymer for hybrid solar cells. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	2	
19	Tandem Organic Solar Cells: Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V (Adv. Mater. 44/2016). <i>Advanced Materials</i> , 2016 , 28, 9870-9870	24	2	
18	Synthesis of a novel perylene diimide derivative and its charge transfer interaction with C60. <i>Science in China Series B: Chemistry</i> , 2008 , 51, 152-157		2	
17	Synergetic enhancement of photoconductivity in oxotitanium phthalocyanine nanocrystalline/fluoronone-based azo/BAH composite photoreceptors. <i>Progress in Natural Science: Materials International</i> , 2004 , 14, 1095-1098	3.6	2	
16	Improving the device performance of organic solar cells with immiscible solid additives. <i>Journal of Materials Chemistry C</i> ,	7.1	2	
15	Bending TIPS-pentacene single crystals: from morphology to transistor performance. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5621-5627	7.1	2	

14	Effect of Aromatic Solvents Residuals on Electron Mobility of Organic Single Crystals. <i>Advanced Electronic Materials</i> ,2200158	6.4	2
13	Controllable Anion Doping of Electron Acceptors for High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 1764-1773	20.1	2
12	An Efficient Tin-Free Route to Small Molecules Based on Silole-Modified Pentathiophenes for Solution-Processed Organic Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2014 , 3, 984-993	3	1
11	Photovoltaics: A Tetraperylene Diimides Based 3D Nonfullerene Acceptor for Efficient Organic Photovoltaics (Adv. Sci. 4/2015). <i>Advanced Science</i> , 2015 , 2,	13.6	1
10	Preparation and optoelectronic properties of N,N?-diphenyl-N,N?-bis(3-methylphenyl)-(1,l?-biphenyl)-4,4?-diamine/TiO2 nanostructured hybrids. <i>Journal of Materials Science</i> , 2008 , 43, 1044-1049	4.3	1
9	Preparation and photoconductivity study of azo nanoparticles via liquid phase surfactant-assisted reprecipitation. <i>Journal of Materials Science</i> , 2004 , 39, 3587-3591	4.3	1
8	Molecular orientationBhotoconductivity relationship study of phthalocyanine polymer-oriented thin films. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2331-2339	2.9	1
7	Self-assembled monolayers for interface engineering in polymer solar cells. <i>Journal of Polymer Science</i> ,	2.4	1
6	Conductive Metallophthalocyanine Framework Films with High Carrier Mobility as Efficient Chemiresistors. <i>Angewandte Chemie</i> , 2021 , 133, 10901-10908	3.6	1
5	De Novo Fabrication of Large-Area and Self-Standing Covalent Organic Framework Films for Efficient Separation. <i>ACS Applied Materials & Samp; Interfaces</i> , 2021 , 13, 44806-44813	9.5	1
4	Non-halogenated solvents processed efficient ITO-free flexible organic solar cells with up-scaled area <i>Macromolecular Rapid Communications</i> , 2022 , e2200049	4.8	1
3	Conformation tuning of simple non-fused electron acceptors via oxygen and sulfur substitutions and its effects on photovoltaics. <i>Multifunctional Materials</i> , 2021 , 4, 024003	5.2	O
2	Microcapsule-based materials for electrophoretic displays. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1359, 19		
1	Non-isothermal crystallization kinetics and rheological behaviors of PBT/PET blends: effects of PET	3.1	