Yuan-Ping Yi

List of Publications by Year
in descending order

276	20,472	8755	12597
papers	citations	75 h-index	132 g-index

283	283	283	16434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-fullerene acceptors with branched side chains and improved molecular packing to exceed 18% efficiency in organic solar cells. Nature Energy, 2021, 6, 605-613.	39.5	1,307
2	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. Nature Communications, 2018, 9, 1460.	12.8	781
3	A two-dimensional Ï€â€“d conjugated coordination polymer with extremely high electrical conductivity and ambipolar transport behaviour. Nature Communications, 2015, 6, 7408.	12.8	609
4	Novel Thermally Activated Delayed Fluorescence Materialsâ€“Thioxanthone Derivatives and Their Applications for Highly Efficient OLEDs. Advanced Materials, 2014, 26, 5198-5204.	21.0	488
5	Toward Quantitative Prediction of Molecular Fluorescence Quantum Efficiency:â€‰ Role of Duschinsky Rotation. Journal of the American Chemical Society, 2007, 129, 9333-9339.	13.7	414
6	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Openâ€Circuit Voltage. Advanced Materials, 2017, 29, 1700254.	21.0	363
7	Hydrogen substituted graphdiyne as carbon-rich flexible electrode for lithium and sodium ion batteries. Nature Communications, 2017, 8, 1172.	12.8	357
8	Graphdiyne Oxides as Excellent Substrate for Electroless Deposition of Pd Clusters with High Catalytic Activity. Journal of the American Chemical Society, 2015, 137, 5260-5263.	13.7	341
9	Organic Solar Cells with 18% Efficiency Enabled by an Alloy Acceptor: A Twoâ€inâ€One Strategy. Advanced Materials, 2021, 33, e2100830.	21.0	323
10	The Impact of Molecular Orientation on the Photovoltaic Properties of a Phthalocyanine/Fullerene Heterojunction. Advanced Functional Materials, 2012, 22, 2987-2995.	14.9	298
11	Deepâ€Red to Nearâ€Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. Angewandte Chemie - International Edition, 2017, 56, 11525-11529.	13.8	293
12	Exciton-Dissociation and Charge-Recombination Processes in Pentacene/C₆₀ Solar Cells: Theoretical Insight into the Impact of Interface Geometry. Journal of the American Chemical Society, 2009, 131, 15777-15783.	13.7	275
13	Optimized Fibril Network Morphology by Precise Sideâ€Chain Engineering to Achieve Highâ€Performance Bulkâ€Heterojunction Organic Solar Cells. Advanced Materials, 2018, 30, e1707353.	21.0	271
14	Induction of Strong Longâ€Lived Roomâ€Temperature Phosphorescence of Nâ€Phenylâ€2â€naphthylamine Molecules by Confinement in a Crystalline Dibromobiphenyl Matrix. Angewandte Chemie - International Edition, 2016, 55, 15589-15593.	13.8	265
15	High Conductive Two-Dimensional Covalent Organic Framework for Lithium Storage with Large Capacity. ACS Applied Materials & Interfaces, 2016, 8, 5366-5375.	8.0	255
16	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10%. Advanced Materials, 2016, 28, 10008-10015.	21.0	254
17	Prediction of Remarkable Ambipolar Charge-Transport Characteristics in Organic Mixed-Stack Charge-Transfer Crystals. Journal of the American Chemical Society, 2012, 134, 2340-2347.	13.7	245
18	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. Nanoscale, 2014, 6, 11336-11343.	5.6	229

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19	Fine-Tuning of Crystal Packing and Charge Transport Properties of BDOPV Derivatives through Fluorine Substitution. Journal of the American Chemical Society, 2015, 137, 15947-15956.	13.7	224
20	MOlecular MAterials Property Prediction Package (MOMAP) 1.0: a software package for predicting the luminescent properties and mobility of organic functional materials. Molecular Physics, 2018, 116, 1078-1090.	1.7	222
21	Identification of FeN₄ as an Efficient Active Site for Electrochemical N₂ Reduction. ACS Catalysis, 2019, 9, 7311-7317.	11.2	220
22	Excited state radiationless decay process with Duschinsky rotation effect: Formalism and implementation. Journal of Chemical Physics, 2007, 126, 114302.	3.0	213
23	Unusual Aggregationâ€Induced Emission of a Coumarin Derivative as a Result of the Restriction of an Intramolecular Twisting Motion. Angewandte Chemie - International Edition, 2015, 54, 14492-14497.	13.8	207
24	Flexible nâ€Type Highâ€Performance Thermoelectric Thin Films of Poly(nickelâ€ethylenetetrathiolate) Prepared by an Electrochemical Method. Advanced Materials, 2016, 28, 3351-3358.	21.0	206
25	Synthesis of Chlorineâ€Substituted Graphdiyne and Applications for Lithiumâ€Ion Storage. Angewandte Chemie - International Edition, 2017, 56, 10740-10745.	13.8	206
26	Extended Squaraine Dyes with Large Two-Photon Absorption Cross-Sections. Journal of the American Chemical Society, 2006, 128, 14444-14445.	13.7	205
27	Terminal Ï€â€“Ï€ stacking determines three-dimensional molecular packing and isotropic charge transport in an Aâ€“Ï€â€“A electron acceptor for non-fullerene organic solar cells. Journal of Materials Chemistry C, 2017, 5, 4852-4857.	5.5	192
28	Controlled Conjugated Backbone Twisting for an Increased Open-Circuit Voltage while Having a High Short-Circuit Current in Poly(hexylthiophene) Derivatives. Journal of the American Chemical Society, 2012, 134, 5222-5232.	13.7	187
29	N-doped graphdiyne for high-performance electrochemical electrodes. Nano Energy, 2018, 44, 144-154.	16.0	182
30	Solution-Processable Organic Molecule Photovoltaic Materials with Bithienyl-benzodithiophene Central Unit and Indenedione End Groups. Chemistry of Materials, 2013, 25, 2274-2281.	6.7	180
31	Interfacial Passivation for Perovskite Solar Cells: The Effects of the Functional Group in Phenethylammonium Iodide. ACS Energy Letters, 2019, 4, 2913-2921.	17.4	176
32	Nitrogen-Doped Porous Graphdiyne: A Highly Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 29744-29752.	8.0	166
33	Synthesis and Electronic Structure of Boronâ€Graphdiyne with an spâ€Hybridized Carbon Skeleton and Its Application in Sodium Storage. Angewandte Chemie - International Edition, 2018, 57, 3968-3973.	13.8	166
34	Concurrent improvement in J_{SC} and V_{OC} in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. Energy and Environmental Science, 2020, 13, 2115-2123.	30.8	164
35	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables Highâ€Performance Organic Photovoltaics. Advanced Materials, 2019, 31, e1904215.	21.0	162
36	Improving the efficiency of solution processable organic photovoltaic devices by a star-shaped molecular geometry. Journal of Materials Chemistry, 2008, 18, 4085.	6.7	160

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37	Balanced Carrier Transports of Electrons and Holes in Silole-Based CompoundsA Theoretical Study. Journal of Physical Chemistry A, 2006, 110, 7138-7143.	2.5	159
38	Self-catalyzed growth of Cu@graphdiyne coreâ€“shell nanowires array for high efficient hydrogen evolution cathode. Nano Energy, 2016, 30, 858-866.	16.0	149
39	Fluoride graphdiyne as a free-standing electrode displaying ultra-stable and extraordinary high Li storage performance. Energy and Environmental Science, 2018, 11, 2893-2903.	30.8	146
40	Remarkable enhancement of charge carrier mobility of conjugated polymer field-effect transistors upon incorporating an ionic additive. Science Advances, 2016, 2, e1600076.	10.3	139
41	Recovery of Au(III) by radiation synthesized aminomethyl pyridine functionalized adsorbents based on cellulose. Chemical Engineering Journal, 2016, 283, 504-513.	12.7	137
42	Seleniumâ€Substituted Diketopyrrolopyrrole Polymer for Highâ€Performance pâ€Type Organic Thermoelectric Materials. Angewandte Chemie - International Edition, 2019, 58, 18994-18999.	13.8	136
43	Theoretical Study of Conversion and Decay Processes of Excited Triplet and Singlet States in a Thermally Activated Delayed Fluorescence Molecule. Journal of Physical Chemistry C, 2017, 121, 13448-13456.	3.1	134
44	Bioinspired Multifunctional Organic Transistors Based on Natural Chlorophyll/Organic Semiconductors. Advanced Materials, 2020, 32, e2001227.	21.0	133
45	Highly Efficient Orange and Red Phosphorescent Organic Lightâ€Emitting Diodes with Low Rollâ€Off of Efficiency using a Novel Thermally Activated Delayed Fluorescence Material as Host. Advanced Materials, 2015, 27, 4041-4047.	21.0	127
46	Thermal-Driven Phase Separation of Double-Cable Polymers Enables Efficient Single-Component Organic Solar Cells. Joule, 2019, 3, 1765-1781.	24.0	124
47	Highâ€Performance Fluorinated Fusedâ€Ring Electron Acceptor with 3D Stacking and Exciton/Charge Transport. Advanced Materials, 2020, 32, e2000645.	21.0	122
48	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Lowâ€Drivingâ€Force Organic Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15348-15353.	13.8	121
49	Aromaticâ€Imideâ€Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 8818-8822.	13.8	118
50	Bottom-up growth of n-type monolayer molecular crystals on polymeric substrate for optoelectronic device applications. Nature Communications, 2018, 9, 2933.	12.8	118
51	Isoindigoâ€Based Polymers with Small Effective Masses for Highâ€Mobility Ambipolar Fieldâ€Effect Transistors. Advanced Materials, 2017, 29, 1702115.	21.0	115
52	A comparative theoretical study of exciton-dissociation and charge-recombination processes in oligothiophene/fullerene and oligothiophene/perylenediimide complexes for organic solar cells. Journal of Materials Chemistry, 2011, 21, 1479.	6.7	112
53	Unraveling the influence of non-fullerene acceptor molecular packing on photovoltaic performance of organic solar cells. Nature Communications, 2020, 11, 6005.	12.8	112
54	Charge Mobility Enhancement for Conjugated DPP-Selenophene Polymer by Simply Replacing One Bulky Branching Alkyl Chain with Linear One at Each DPP Unit. Chemistry of Materials, 2018, 30, 3090-3100.	6.7	107

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55	Tuning the Crystal Polymorphs of Alkyl Thienoacene via Solution Selfâ€Assembly Toward Airâ€Stable and Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2015, 27, 825-830.	21.0	106
56	Charge Transfer in Molecular Complexes with 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F₄-TCNQ): A Density Functional Theory Study. Chemistry of Materials, 2011, 23, 5149-5159.	6.7	102
57	Achieving 16.68% efficiency ternary as-cast organic solar cells. Science China Chemistry, 2021, 64, 581-589.	8.2	99
58	A Cofacially Stacked Electronâ€Deficient Small Molecule with a High Electron Mobility of over 10 cm² V^{â^'1} s^{â^'1} in Air. Advanced Materials, 2015, 27, 8051-8055.	21.0	97
59	Understanding the Charge Transport and Polarities in Organic Donorâ€“Acceptor Mixedâ€Stack Crystals: Molecular Insights from the Superâ€Exchange Couplings. Advanced Materials, 2015, 27, 1443-1449.	21.0	97
60	Highly Conducting Neutral Coordination Polymer with Infinite Two-Dimensional Silverâ€“Sulfur Networks. Journal of the American Chemical Society, 2018, 140, 15153-15156.	13.7	97
61	From Molecular Packing Structures to Electronic Processes: Theoretical Simulations for Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1702743.	19.5	93
62	Exciton Binding Energies of Nonfullerene Small Molecule Acceptors: Implication for Exciton Dissociation Driving Forces in Organic Solar Cells. Journal of Physical Chemistry C, 2018, 122, 22309-22316.	3.1	93
63	Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. Energy and Environmental Science, 2020, 13, 5117-5125.	30.8	93
64	Low temperature, atmospheric pressure for synthesis of a new carbon Ene-yne and application in Li storage. Nano Energy, 2017, 33, 343-349.	16.0	92
65	Airâ€Stable nâ€Type Thermoelectric Materials Enabled by Organic Diradicaloids. Angewandte Chemie - International Edition, 2019, 58, 4958-4962.	13.8	92
66	Accurate Determination of the Minimum HOMO Offset for Efficient Charge Generation using Organic Semiconducting Alloys. Advanced Energy Materials, 2020, 10, 1903298.	19.5	92
67	Achieving an Efficient and Stable Morphology in Organic Solar Cells Via Fine-Tuning the Side Chains of Small-Molecule Acceptors. Chemistry of Materials, 2020, 32, 2593-2604.	6.7	91
68	Monolayer Twoâ€dimensional Molecular Crystals for an Ultrasensitive OFETâ€based Chemical Sensor. Angewandte Chemie - International Edition, 2020, 59, 4380-4384.	13.8	90
69	Impact of polymorphism on the optoelectronic properties of a low-bandgap semiconducting polymer. Nature Communications, 2019, 10, 2867.	12.8	89
70	Electron-phonon couplings and carrier mobility in graphynes sheet calculated using the Wannier-interpolation approach. Journal of Chemical Physics, 2014, 141, 034704.	3.0	82
71	Understanding the efficiency drooping of the deep blue organometallic phosphors: a computational study of radiative and non-radiative decay rates for triplets. Journal of Materials Chemistry C, 2016, 4, 6829-6838.	5.5	82
72	Dicyclohepta[ijkl,uvwx]rubicene with Two Pentagons and Two Heptagons as a Stable and Planar Nonâ€benzenoid Nanographene. Angewandte Chemie - International Edition, 2020, 59, 3529-3533.	13.8	82

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73	Impact of Electron Delocalization on the Nature of the Charge-Transfer States in Model Pentacene/C₆₀ Interfaces: A Density Functional Theory Study. Journal of Physical Chemistry C, 2014, 118, 27648-27656.	3.1	80
74	Electronic Properties of Mixed-Stack Organic Charge-Transfer Crystals. Journal of Physical Chemistry C, 2014, 118, 14150-14156.	3.1	79
75	Precisely Tailoring the Stoichiometric Stacking of Peryleneâ€TCNQ Coâ€Crystals towards Different Nano and Microstructures with Varied Optoelectronic Performances. Small, 2015, 11, 2150-2156.	10.0	79
76	Highâ€Yield and Damageâ€free Exfoliation of Layered Graphdiyne in Aqueous Phase. Angewandte Chemie - International Edition, 2019, 58, 746-750.	13.8	79
77	Bismuth Interfacial Doping of Organic Small Molecules for High Performance nâ€type Thermoelectric Materials. Angewandte Chemie - International Edition, 2016, 55, 10672-10675.	13.8	77
78	Triplet Acceptors with a Dâ€A Structure and Twisted Conformation for Efficient Organic Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 15043-15049.	13.8	77
79	Reducing the Singletâ^'Triplet Energy Gap by Endâ€Group Ï€â^'Ï€ Stacking Toward Highâ€Efficiency Organic Photovoltaics. Advanced Materials, 2020, 32, e2000975.	21.0	77
80	Solvent Effects on the Optical Spectra and Excited-State Decay of Triphenylamine-thiadiazole with Hybridized Local Excitation and Intramolecular Charge Transfer. Journal of Physical Chemistry A, 2015, 119, 5233-5240.	2.5	73
81	A nonfullerene acceptor utilizing a novel asymmetric multifused-ring core unit for highly efficient organic solar cells. Journal of Materials Chemistry C, 2018, 6, 4873-4877.	5.5	73
82	Local Excitation/Charge-Transfer Hybridization Simultaneously Promotes Charge Generation and Reduces Nonradiative Voltage Loss in Nonfullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 2911-2918.	4.6	73
83	Controllable Synthesis of Graphdiyne Nanoribbons. Angewandte Chemie - International Edition, 2020, 59, 4908-4913.	13.8	71
84	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. Chemistry of Materials, 2007, 19, 432-442.	6.7	66
85	Doping mechanisms of N-DMBI-H for organic thermoelectrics: hydrogen removal vs. hydride transfer. Journal of Materials Chemistry A, 2020, 8, 8323-8328.	10.3	66
86	Organic Semiconducting Alloys with Tunable Energy Levels. Journal of the American Chemical Society, 2019, 141, 6561-6568.	13.7	65
87	Airâ€Stable nâ€Type Thermoelectric Materials Enabled by Organic Diradicaloids. Angewandte Chemie, 2019, 131, 5012-5016.	2.0	64
88	Electron Hopping by Interfacing Semiconducting Graphdiyne Nanosheets and Redox Molecules for Selective Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 2074-2082.	13.7	63
89	An improved dynamic Monte Carlo model coupled with Poisson equation to simulate the performance of organic photovoltaic devices. Journal of Chemical Physics, 2011, 134, 124102.	3.0	62
90	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. Energy and Environmental Science, 2022, 15, 855-865.	30.8	62

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91	Insertion of double bond Ï€-bridges of Aâ€“Dâ€“A acceptors for high performance near-infrared polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 22588-22597.	10.3	61
92	Achieving Small Exciton Binding Energies in Small Molecule Acceptors for Organic Solar Cells: Effect of Molecular Packing. Journal of Physical Chemistry Letters, 2019, 10, 4888-4894.	4.6	60
93	Direct Synthesis of Crystalline Graphdiyne Analogue Based on Supramolecular Interactions. Journal of the American Chemical Society, 2019, 141, 48-52.	13.7	60
94	From Dark TICT State to Emissive quasi-TICT State: The AIE Mechanism of N-(3-(benzo[d]oxazol-2-yl)phenyl)-4-tert-butylbenzamide. Journal of Physical Chemistry C, 2015, 119, 2133-2141.	3.1	58
95	Highly efficient blue organic light-emitting diodes from pyrimidine-based thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2018, 6, 2351-2359.	5.5	58
96	Electrical Loss Management by Molecularly Manipulating Dopantâ€free Poly(3â€hexylthiophene) towards 16.93â€‰% CsPbI₂Br Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 16388-16393.	13.8	57
97	Helical Molecular Duplex Strands:Â Multiple Hydrogen-Bond-Mediated Assembly of Self-Complementary Oligomeric Hydrazide Derivatives. Journal of Organic Chemistry, 2007, 72, 4936-4946.	3.2	56
98	Experimental Evidence for â€œHot Excitonâ€•Thermally Activated Delayed Fluorescence Emitters. Advanced Optical Materials, 2019, 7, 1801190.	7.3	56
99	Increasing donor-acceptor spacing for reduced voltage loss in organic solar cells. Nature Communications, 2021, 12, 6679.	12.8	56
100	Thermally populated â€œbrightâ€•states for wide-range and high temperature sensing in air. Chemical Communications, 2017, 53, 5702-5705.	4.1	54
101	Intrinsic charge transport in single crystals of organic molecular semiconductors: A theoretical perspective. MRS Bulletin, 2013, 38, 57-64.	3.5	53
102	Tuning transport performance in two-dimensional metal-organic framework semiconductors: Role of the metal d band. Applied Physics Letters, 2018, 112, .	3.3	53
103	High two-photon cross-sections in bis(diarylaminostyryl) chromophores with electron-rich heterocycle and bis(heterocycle)vinylene bridges. Chemical Communications, 2007, , 1372-1374.	4.1	52
104	Synthesis of Chlorineâ€Substituted Graphdiyne and Applications for Lithiumâ€Ion Storage. Angewandte Chemie, 2017, 129, 10880-10885.	2.0	52
105	Preparation and structure study of phosphorus-doped porous graphdiyne and its efficient lithium storage application. 2D Materials, 2019, 6, 035020.	4.4	52
106	The Impact of Interlayer Electronic Coupling on Charge Transport in Organic Semiconductors: A Case Study on Titanylphthalocyanine Single Crystals. Angewandte Chemie - International Edition, 2016, 55, 5206-5209.	13.8	51
107	Isomeryâ€Dependent Miscibility Enables Highâ€Performance Allâ€Smallâ€Molecule Solar Cells. Small, 2019, 15, 1804271.	10.0	50
108	Longer and Stronger: Improving Persistent Luminescence in Size-Tuned Zinc Gallate Nanoparticles by Alcohol-Mediated Chromium Doping. ACS Nano, 2020, 14, 12113-12124.	14.6	50

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109	Tunable Electron Donating and Accepting Properties Achieved by Modulating the Steric Hindrance of Side Chains in A-D-A Small-Molecule Photovoltaic Materials. Chemistry of Materials, 2018, 30, 619-628.	6.7	49
110	Symmetry effects on nonlocal electron-phonon coupling in organic semiconductors. Physical Review B, 2012, 85, .	3.2	48
111	Nonlocal electron-phonon coupling in the pentacene crystal: Beyond the Î“-point approximation. Journal of Chemical Physics, 2012, 137, 164303.	3.0	48
112	Diaceno[a,e]pentalenes from Homoannulations of o-Alkynylaryliodides Utilizing a Unique Pd(OAc)₂/n-Bu₄NOAc Catalytic Combination. Organic Letters, 2014, 16, 4924-4927.	4.6	48
113	Triplet decay-induced negative temperature dependence of the transient photoluminescence decay of thermally activated delayed fluorescence emitter. Journal of Materials Chemistry C, 2017, 5, 12077-12084.	5.5	48
114	Origin of High Efficiencies for Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes: Atomistic Insight into Molecular Orientation and Torsional Disorder. Journal of Physical Chemistry C, 2018, 122, 27191-27197.	3.1	48
115	Developing Quinoidal Fluorophores with Unusually Strong Red/Near-Infrared Emission. Journal of the American Chemical Society, 2015, 137, 11294-11302.	13.7	47
116	Deepâ€Red to Nearâ€Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. Angewandte Chemie, 2017, 129, 11683-11687.	2.0	47
117	Synthesis and Electronic Structure of Boronâ€Graphdiyne with an spâ€Hybridized Carbon Skeleton and Its Application in Sodium Storage. Angewandte Chemie, 2018, 130, 4032-4037.	2.0	47
118	Atomistic Insight Into Donor/Acceptor Interfaces in Highâ€Efficiency Nonfullerene Organic Solar Cells. Solar Rrl, 2018, 2, 1800190.	5.8	47
119	Barrier-Free Charge Separation Enabled by Electronic Polarization in High-Efficiency Non-fullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 2585-2591.	4.6	47
120	Hot Charge-Transfer States Determine Exciton Dissociation in the DTDCTB/C₆₀ Complex for Organic Solar Cells: A Theoretical Insight. Journal of Physical Chemistry C, 2015, 119, 11320-11326.	3.1	46
121	Origin of Photocurrent and Voltage Losses in Organic Solar Cells. Advanced Theory and Simulations, 2019, 2, 1900067.	2.8	46
122	Nature of the Lowest Singlet and Triplet Excited States of Organic Thermally Activated Delayed Fluorescence Emitters: A Self-Consistent Quantum Mechanics/Embedded Charge Study. Chemistry of Materials, 2019, 31, 6665-6671.	6.7	46
123	Molecular Insight into Efficient Charge Generation in Low-Driving-Force Nonfullerene Organic Solar Cells. Accounts of Chemical Research, 2022, 55, 869-877.	15.6	46
124	Heteroatom substitution-induced asymmetric Aâ€“Dâ€“A type non-fullerene acceptor for efficient organic solar cells. Journal of Energy Chemistry, 2020, 40, 144-150.	12.9	45
125	Two-Photon Absorption Properties of Iron(II) and Ruthenium(II) Trischelate Complexes of 2,2â€²:4,4â€²â€³:4â€²,4â€²â€³â€²-Quaterpyridinium Ligands. Journal of Physical Chemistry A, 2007, 111, 472-478.	2.5	44
126	Organic Cocrystal Photovoltaic Behavior: A Model System to Study Charge Recombination of C₆₀ and C₇₀ at the Molecular Level. Advanced Electronic Materials, 2016, 2, 1500423.	5.1	42

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127	Charge transport in organic donorâ€“acceptor mixed-stack crystals: the role of nonlocal electronâ€“phonon couplings. Physical Chemistry Chemical Physics, 2017, 19, 4418-4425.	2.8	42
128	Super-exchange-induced high performance charge transport in donorâ€“acceptor copolymers. Journal of Materials Chemistry C, 2017, 5, 3247-3253.	5.5	42
129	Influences of Conjugation Extent on the Aggregationâ€Induced Emission Quantum Efficiency in Silole Derivatives: A Computational Study. Chemistry - an Asian Journal, 2015, 10, 2154-2161.	3.3	40
130	An Amidineâ€Type nâ€Dopant for Solutionâ€Processed Fieldâ€Effect Transistors and Perovskite Solar Cells. Advanced Functional Materials, 2017, 27, 1703254.	14.9	40
131	Y6 and its derivatives: molecular design and physical mechanism. National Science Review, 2021, 8, nwab121.	9.5	40
132	Superexchange Induced Charge Transport in Organic Donorâ€“Acceptor Cocrystals and Copolymers: A Theoretical Perspective. Chemistry of Materials, 2019, 31, 6424-6434.	6.7	39
133	Clusteringâ€Triggered Efficient Roomâ€Temperature Phosphorescence from Nonconventional Luminophores. ChemPhysChem, 2020, 21, 36-42.	2.1	39
134	Sub-5 nm single crystalline organic pâ€“n heterojunctions. Nature Communications, 2021, 12, 2774.	12.8	39
135	Novel colorimetric and fluorescent offâ€“on enantiomers with high selectivity for Fe3+ imaging in living cells. Sensors and Actuators B: Chemical, 2016, 224, 592-599.	7.8	38
136	Understanding Lattice Strainâ€Controlled Charge Transport in Organic Semiconductors: A Computational Study. Advanced Functional Materials, 2014, 24, 5531-5540.	14.9	36
137	A facile strategy to enhance absorption coefficient and photovoltaic performance of two-dimensional benzo[1,2-b:4,5-bâ€²]dithiophene and thieno[3,4-c]pyrrole-4,6-dione polymers via subtle chemical structure variations. Organic Electronics, 2013, 14, 2652-2661.	2.6	35
138	A cross-dipole stacking molecule of an anthracene derivative: integrating optical and electrical properties. Journal of Materials Chemistry C, 2015, 3, 3068-3071.	5.5	35
139	Multi-channel exciton dissociation in D18/Y6 complexes for high-efficiency organic photovoltaics. Journal of Materials Chemistry A, 2020, 8, 20408-20413.	10.3	35
140	Importance of side-chain anchoring atoms on electron donor/fullerene interfaces for high-performance organic solar cells. Journal of Materials Chemistry A, 2017, 5, 9316-9321.	10.3	34
141	Dicyclohepta[ijkl,uvwx]rubicene with Two Pentagons and Two Heptagons as a Stable and Planar Nonâ€benzenoid Nanographene. Angewandte Chemie, 2020, 132, 3557-3561.	2.0	33
142	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. Angewandte Chemie - International Edition, 2021, 60, 281-289.	13.8	33
143	New Synthetic Approaches toNâ€Aryl and Ïâ€Expanded Diketopyrrolopyrroles as New Building Blocks for Organic Optoelectronic Materials. Angewandte Chemie - International Edition, 2021, 60, 10700-10708.	13.8	33
144	Alignment of linear polymeric grains for highly stable N-type thin-film transistors. CheM, 2021, 7, 1258-1270.	11.7	33

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145	â€œHâ€â€Like Organic Nanowire Heterojunctions Constructed from Cooperative Molecular Assembly for Photonic Applications. Advanced Science, 2015, 2, 1500130.	11.2	32
146	Improving the Electron Mobility of ITIC by Endâ€Group Modulation: The Role of Fluorination and Ïâ€Extension. Solar Rrl, 2019, 3, 1800251.	5.8	32
147	Revealing the influence of the solvent evaporation rate and thermal annealing on the molecular packing and charge transport of DPP(TBFu)₂. Journal of Materials Chemistry C, 2016, 4, 4654-4661.	5.5	31
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