

Hongkun Tian

List of Publications by Year in descending order

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64
papers

2,276
citations

201674

27
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223800

46
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65
docs citations

65
times ranked

2854
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel NIR-absorbing conjugated polymers for efficient polymer solar cells: effect of alkyl chain length on device performance. <i>Journal of Materials Chemistry</i> , 2009, 19, 2199.	6.7	189
2	High Mobility Ambipolar Diketopyrrolopyrrole-Based Conjugated Polymer Synthesized Via Direct Arylation Polycondensation. <i>Advanced Materials</i> , 2015, 27, 6753-6759.	21.0	187
3	Multifluorination toward High-Mobility Ambipolar and Unipolar n-Type Donor-Acceptor Conjugated Polymers Based on Isoindigo. <i>Advanced Materials</i> , 2017, 29, 1606217.	21.0	172
4	Near-infrared absorbing non-fullerene acceptors with selenophene as π bridges for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8059-8067.	10.3	92
5	Diketopyrrolopyrrole-Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation for High Mobility Pure n-Channel Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1801097.	14.9	92
6	n-Type Azaacenes Containing B \uparrow N Units. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2000-2004.	13.8	82
7	Novel boron- and sulfur-doped polycyclic aromatic hydrocarbon as multiple resonance emitter for ultrapure blue thermally activated delayed fluorescence polymers. <i>Science China Chemistry</i> , 2021, 64, 547-551.	8.2	76
8	Low bandgap conjugated polymers based on mono-fluorinated isoindigo for efficient bulk heterojunction polymer solar cells processed with non-chlorinated solvents. <i>Energy and Environmental Science</i> , 2015, 8, 585-591.	30.8	70
9	Novel thiophene-aryl co-oligomers for organic thin film transistors. <i>Journal of Materials Chemistry</i> , 2005, 15, 3026.	6.7	66
10	Asymmetric Conjugated Molecules Based on [1]Benzothieno[3,2- <i>b</i>][1]benzothiophene for High-Mobility Organic Thin-Film Transistors: Influence of Alkyl Chain Length. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35427-35436.	8.0	65
11	Synthesis and Characterization of Isoindigo[7,6- <i>g</i>]isoindigo-Based Donor-Acceptor Conjugated Polymers. <i>Macromolecules</i> , 2016, 49, 2135-2144.	4.8	64
12	Sterically-Locked Donor-Acceptor Conjugated Polymers Showing Efficient Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9635-9641.	13.8	61
13	High Mobility Ambipolar Diketopyrrolopyrrole-Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation: Influence of Thiophene Moieties and Side Chains. <i>Macromolecules</i> , 2018, 51, 8752-8760.	4.8	56
14	Suzuki-Miyaura catalyst-transfer polycondensation with Pd(IPr) ₂ as the catalyst for the controlled synthesis of polyfluorenes and polythiophenes. <i>Polymer Chemistry</i> , 2014, 5, 7072-7080.	3.9	50
15	π -Stacked Donor-Acceptor Dendrimers for Highly Efficient White Electroluminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16585-16593.	13.8	49
16	An asymmetric oligomer based on thienoacene for solution processed crystal organic thin-film transistors. <i>Chemical Communications</i> , 2012, 48, 3557.	4.1	44
17	Novel highly stable semiconductors based on phenanthrene for organic field-effect transistors. <i>Chemical Communications</i> , 2006, , 3498.	4.1	42
18	A feasibly synthesized ladder-type conjugated molecule as the novel high mobility n-type organic semiconductor. <i>Journal of Materials Chemistry</i> , 2010, 20, 7998.	6.7	41

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19	Donor-“spacer”-acceptor monodisperse conjugated co-oligomers for efficient single-molecule photovoltaic cells based on non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3632.	10.3	40
20	Organic heterojunctions as a charge generation layer in tandem organic light-emitting diodes: the effect of interfacial energy level and charge carrier mobility. <i>Journal of Materials Chemistry</i> , 2011, 21, 15332.	6.7	38
21	Donor-Acceptor Conjugated Polymers Based on Bisindigo: Energy Level Modulation toward Unipolar n-Type Semiconductors. <i>Macromolecules</i> , 2018, 51, 8652-8661.	4.8	36
22	Direct Effect of Dielectric Surface Energy on Carrier Transport in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15943-15951.	8.0	35
23	High-Performance Red Quantum-Dot Light-Emitting Diodes Based on Organic Electron Transporting Layer. <i>Advanced Functional Materials</i> , 2021, 31, 2007686.	14.9	32
24	Fused Isoindigo Ribbons with Absorption Bands Reaching Near-Infrared. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10283-10287.	13.8	31
25	Optimizing the Crystallization Behavior and Film Morphology of Donor-Acceptor Conjugated Semiconducting Polymers by Side-Chain-Solvent Interaction in Nonpolar Solvents. <i>Macromolecules</i> , 2021, 54, 10557-10573.	4.8	30
26	Highly efficient tandem white organic light-emitting diodes based upon C60/NaT4 organic heterojunction as charge generation layer. <i>Journal of Materials Chemistry</i> , 2012, 22, 8492.	6.7	29
27	Five-ring-fused asymmetric thienoacenes for high mobility organic thin-film transistors: the influence of the position of the S atom in the terminal thiophene ring. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3656-3664.	5.5	29
28	Alkyl substituted [6,6]-thienyl-C61-butyric acid methyl esters: easily accessible acceptor materials for bulk-heterojunction polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 3092.	6.7	26
29	Triazatruxene-based thermally activated delayed fluorescence small molecules with aggregation-induced emission properties for solution-processable nondoped OLEDs with low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9719-9725.	5.5	26
30	Polymerization-induced phototherapy: A non-donor-acceptor approach to highly effective near-infrared photothermal conversion nanoparticles. <i>Biomaterials</i> , 2020, 255, 120179.	11.4	25
31	High ON/OFF ratio single crystal transistors based on ultrathin thienoacene microplates. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5382-5388.	5.5	24
32	Crystalline Organic Heterostructures Engineering Based on Vanadyl Phthalocyanine and Rod-Like Conjugated Organic Semiconductors with Selected Central Groups. <i>Advanced Functional Materials</i> , 2012, 22, 4598-4607.	14.9	23
33	Isomers of β -Fused Dibenzoazaacenes: How β -N Affects Optoelectronic Properties and Device Behaviors?. <i>Chemistry - A European Journal</i> , 2021, 27, 4364-4372.	3.3	22
34	Diketopyrrolopyrrole-based small molecules for solution-processed n-channel organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13939-13946.	5.5	21
35	A difluorobenzothiadiazole-based conjugated polymer with alkylthiophene as the side chains for efficient, additive-free and thick-film polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20473-20481.	10.3	20
36	Isoindigo-based low bandgap conjugated polymer for o-xylene processed efficient polymer solar cells with thick active layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19928-19935.	10.3	19

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37	Donor-acceptor conjugated polymers based on two-dimensional thiophene derivatives for bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2017, 8, 421-430.	3.9	19
38	Aggregation-Induced Emission of Highly Planar Enaminone Derivatives: Unexpected Fluorescence Enhancement by Bromine Substitution. <i>Advanced Optical Materials</i> , 2019, 7, 1801719.	7.3	19
39	n-Type Azaacenes Containing B π N Units. <i>Angewandte Chemie</i> , 2018, 130, 2018-2022.	2.0	18
40	Benzo[thienobenzothiophene]-Based Conjugated Oligomers as Semiconductors for Stable Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5255-5262.	8.0	17
41	Donor-acceptor-donor conjugated oligomers based on isoindigo and anthra[1,2-b]thieno[2,3-d]thiophene for organic thin-film transistors: the effect of the alkyl side chain length on semiconducting properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7567-7574.	5.5	15
42	Orange-red thermally activated delay fluorescence emitters based on asymmetric difluoroboron chelated enaminone: Impact of donor position on luminescent properties. <i>Dyes and Pigments</i> , 2021, 184, 108810.	3.7	15
43	B π N-Incorporated Dibenzo-azaacenes as n-Type Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33321-33327.	8.0	15
44	Increasing the Charge Transport of P(NDI2OD-T2) by Improving the Polarization of the NDI2OD Unit along the Backbone Direction and Preaggregation via H-Bonding. <i>Macromolecules</i> , 2022, 55, 2497-2508.	4.8	15
45	Sterically-Locked Donor-Acceptor Conjugated Polymers Showing Efficient Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2021, 133, 9721-9727.	2.0	14
46	B π N-Incorporated Dibenzo-azaacene with Selective Near-Infrared Absorption and Visible Transparency. <i>Chemistry - A European Journal</i> , 2021, 27, 2065-2071.	3.3	12
47	Fully Integrated Microscale Quasi-2D Crystalline Molecular Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1903738.	14.9	11
48	Fused Isoindigo Ribbons with Absorption Bands Reaching Near-Infrared. <i>Angewandte Chemie</i> , 2018, 130, 10440-10444.	2.0	10
49	Electronic properties modulation of tetraoxidothieno[3,2- <i>b</i>]thiophene-based quinoidal compounds by terminal fluorination. <i>Materials Chemistry Frontiers</i> , 2020, 4, 891-898.	5.9	10
50	Highly efficient solution-processed thermally activated delayed fluorescence emitter based on a fused difluoroboron ketoiminate acceptor: C/N switch to realize the effective modulation of luminescence behavior. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14133-14138.	5.5	9
51	Crystal Packing Motifs of Oligothiophenes End-Capped with N-Containing Aryls. <i>Crystal Growth and Design</i> , 2008, 8, 2352-2358.	3.0	8
52	Synthesis and characterization of diketopyrrolopyrrole-based conjugated molecules flanked by indenothiophene and benzoindenothiophene derivatives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11135-11143.	5.5	8
53	Wide bandgap donor-acceptor conjugated polymers with alkylthiophene as side chains for high-performance non-fullerene polymer solar cells. <i>Organic Electronics</i> , 2019, 65, 31-38.	2.6	8
54	Solid-State Fluorescence Enhancement of Bromine-Substituted Trans-Enaminone Derivatives. <i>Organic Materials</i> , 2020, 02, 033-040.	2.0	8

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55	Synthesis and characterization of oligo(2,5-bis(3-dodecylthiophen-2-yl)thieno[3,2-b]thiophene)s: effect of the chain length and end-groups on their optical and charge transport properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9978-9986.	5.5	7
56	“Stacked Donor–Acceptor Dendrimers for Highly Efficient White Electroluminescence. <i>Angewandte Chemie</i> , 2021, 133, 16721-16729.	2.0	7
57	Asymmetric conjugated oligomers based on polycyclic aromatics as high mobility semiconductors: The influence of chalcogens. <i>Organic Electronics</i> , 2018, 57, 359-366.	2.6	6
58	Indenofluorene- and carbazole-based copolymers for blue PLEDs with simultaneous high efficiency and good color purity. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14819-14825.	5.5	6
59	Water-soluble pH neutral triazatruxene-based small molecules as hole injection materials for solution-processable organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7900-7905.	5.5	5
60	Incorporating Cyano Groups to a Conjugated Polymer Based on Double β -N Bridged Bipyridine Unit for Unipolar n-Type Organic Field-Effect Transistors. <i>Organic Materials</i> , 0, 3, .	2.0	5
61	Novel liquid crystalline conjugated oligomers based on phenanthrene for organic thin film transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 14793.	6.7	2
62	Microscale Organic Transistors: Fully Integrated Microscale Quasi-2D Crystalline Molecular Field-Effect Transistors (<i>Adv. Funct. Mater.</i> 36/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970250.	14.9	1
63	Crystallization Control of N,N'-Dioctyl Perylene Diimide by Amphiphilic Block Copolymers Containing poly(3-Hexylthiophene) and Polyethylene Glycol. <i>Frontiers in Chemistry</i> , 2021, 9, 699387.	3.6	1
64	Unusual design strategy for a stable and soluble high-molecular-weight copper(II) arylacetylide polymer. <i>Chemical Communications</i> , 2021, 57, 12004-12007.	4.1	1