

# Ye Tao

## List of Publications by Year in descending order

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61  
papers

5,986  
citations

218677

26  
h-index

123424

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g-index

64  
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64  
docs citations

64  
times ranked

4799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances on Host-Guest Material Systems toward Organic Room Temperature Phosphorescence. <i>Small</i> , 2022, 18, e2104073.	10.0	170
2	Resonance-Mediated Dynamic Modulation of Perovskite Crystallization for Efficient and Stable Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2107111.	21.0	21
3	Single-component color-tunable circularly polarized organic afterglow through chiral clusterization. <i>Nature Communications</i> , 2022, 13, 429.	12.8	80
4	A biocompatible photosensitizer with a high intersystem crossing efficiency for precise two-photon photodynamic therapy. <i>Materials Horizons</i> , 2022, 9, 1283-1292.	12.2	20
5	Resonance-Induced Stimuli-Responsive Capacity Modulation of Organic Ultralong Room Temperature Phosphorescence. <i>Journal of the American Chemical Society</i> , 2022, 144, 6946-6953.	13.7	68
6	Reply to: Detectivities of WS <sub>2</sub> /HfS <sub>2</sub> heterojunctions. <i>Nature Nanotechnology</i> , 2022, 17, 220-221.	31.5	5
7	On-demand modulating afterglow color of water-soluble polymers through phosphorescence FRET for multicolor security printing. <i>Science Advances</i> , 2022, 8, eabk2925.	10.3	101
8	Achieving Balanced Electrical Performance of Host Material through Dual N-P=O Resonance Linkage for Efficient Electroluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25834-25841.	8.0	2
9	Constructing Donor-Resonance-Donor Molecules for Acceptor-Free Bipolar Organic Semiconductors. <i>Research</i> , 2021, 2021, .	5.7	6
10	Phosphine Sulfide-Based Bipolar Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Molecules</i> , 2021, 26, 4079.	3.8	1
11	Simultaneously Enhancing Efficiency and Stability of Perovskite Solar Cells Through Crystal Cross-Linking Using Fluorophenylboronic Acid. <i>Small</i> , 2021, 17, e2102090.	10.0	15
12	Modulating Tri-Mode Emission for Single-Component White Organic Afterglow. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24984-24990.	13.8	41
13	Modulating Tri-Mode Emission for Single-Component White Organic Afterglow. <i>Angewandte Chemie</i> , 2021, 133, 25188-25194.	2.0	10
14	V-shaped triazine host featuring intramolecular non-covalent interaction for highly efficient white electroluminescent devices. <i>Chemical Engineering Journal</i> , 2021, 425, 131487.	12.7	10
15	Fluorine-induced aggregate-interlocking for color-tunable organic afterglow with a simultaneously improved efficiency and lifetime. <i>Chemical Science</i> , 2021, 12, 3580-3586.	7.4	30
16	Intermolecular locking design of red thermally activated delayed fluorescence molecules for high-performance solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2291-2297.	5.5	18
17	Evoking non-bonding S- $\pi$ interaction by aryl phosphine sulfide for selectively enhanced electronic property of organic semiconductors. <i>Chemical Engineering Journal</i> , 2020, 380, 122562.	12.7	14
18	Stimuli-Responsive Circularly Polarized Organic Ultralong Room Temperature Phosphorescence. <i>Angewandte Chemie</i> , 2020, 132, 4786-4792.	2.0	37

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19	Evoking Synergetic Effect of Dual Thermally Activated Delayed Fluorescent Hosts for High-Efficiency Sensitized Fluorescent Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1836-1843.	3.1	3
20	Stimuli-Responsive Circularly Polarized Organic Ultralong Room Temperature Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4756-4762.	13.8	198
21	X-ray excited ultralong room-temperature phosphorescence for organic afterglow scintillators. <i>Chemical Communications</i> , 2020, 56, 13559-13562.	4.1	25
22	Resonance-driven dynamically bipolar organic semiconductors for high-performance optoelectronic applications. <i>Materials Horizons</i> , 2020, 7, 3298-3304.	12.2	20
23	Highly Efficient Ultrathin Fluorescent OLEDs through Synergistic Sensitization Effects of Phosphor and Exciplex. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3704-3710.	4.3	10
24	Organic Resonance Materials: Molecular Design, Photophysical Properties, and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7739-7754.	4.6	39
25	Resonance hosts for high efficiency solution-processed blue and white electrophosphorescent devices. <i>Science China Chemistry</i> , 2020, 63, 1645-1651.	8.2	12
26	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. <i>Nature Nanotechnology</i> , 2020, 15, 675-682.	31.5	129
27	Asymmetric Thermally Activated Delayed Fluorescence Materials With Aggregation-Induced Emission for High-Efficiency Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2020, 8, 49.	3.6	3
28	Thermally activated triplet exciton release for highly efficient tri-mode organic afterglow. <i>Nature Communications</i> , 2020, 11, 842.	12.8	194
29	Heteroatom-bridged heterofluorenes: a theoretical study on molecular structures and optoelectronic properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3675-3682.	2.8	4
30	Near-Infrared-Excitable Organic Ultralong Phosphorescence through Multiphoton Absorption. <i>Research</i> , 2020, 2020, 2904928.	5.7	10
31	High Triplet Energy Phosphine Sulfide Host Materials with Selectively Modulated Electrical Performance for Blue Electrophosphorescence. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15723-15728.	6.7	4
32	Multiple $\pi$ - $\pi^*$ Conjugated Molecules with Selectively Enhanced Electrical Performance for Efficient Solution-Processed Blue Electrophosphorescence. <i>Advanced Optical Materials</i> , 2019, 7, 1901124.	7.3	7
33	Tuning Intramolecular Conformation and Packing Mode of Host Materials through Noncovalent Interactions for High-Efficiency Blue Electrophosphorescence. <i>ACS Omega</i> , 2019, 4, 9129-9134.	3.5	9
34	Invoking ultralong room temperature phosphorescence of purely organic compounds through H-aggregation engineering. <i>Materials Horizons</i> , 2019, 6, 1259-1264.	12.2	131
35	Direct population of triplet excited states through singlet-triplet transition for visible-light excitable organic afterglow. <i>Chemical Science</i> , 2019, 10, 5031-5038.	7.4	77
36	Surface group-modified MXene nano-flake doping of monolayer tungsten disulfides. <i>Nanoscale Advances</i> , 2019, 1, 4783-4789.	4.6	11

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37	Cost-effective synthesis of carbazole/triphenylsilyl host materials with multiple $\pi$ - $\pi$ conjugation for blue phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018, 151, 187-193.	3.7	10
38	Bright monolayer tungsten disulfide $\pi$ -exciton and trion chemical modulations. <i>Nanoscale</i> , 2018, 10, 6294-6299.	5.6	18
39	Purely Organic Phosphorescence: Resonance-Activated Spin-Flipping for Efficient Organic Ultralong Room-Temperature Phosphorescence ( <i>Adv. Mater.</i> 44/2018). <i>Advanced Materials</i> , 2018, 30, 1870335.	21.0	1
40	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018, 9, 4299.	12.8	151
41	Resonance-Activated Spin-Flipping for Efficient Organic Ultralong Room-Temperature Phosphorescence. <i>Advanced Materials</i> , 2018, 30, e1803856.	21.0	161
42	Star-Shaped Boron-Containing Asymmetric Host Materials for Solution-Processable Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Science</i> , 2018, 5, 1800292.	11.2	22
43	Carbazole/oligofluorene end-capped hexanes: solution-processable host materials for phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4442-4447.	5.5	13
44	Organic Nanoparticles: Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for In Vivo Afterglow Imaging ( <i>Adv. Mater.</i> 33/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
45	Ultralong Phosphorescence of Water-Soluble Organic Nanoparticles for In Vivo Afterglow Imaging. <i>Advanced Materials</i> , 2017, 29, 1606665.	21.0	419
46	Direct silicon-nitrogen bonded host materials with enhanced $\pi$ - $\pi$ conjugation for blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10047-10052.	5.5	18
47	Achieving Optimal Self-Adaptivity for Dynamic Tuning of Organic Semiconductors through Resonance Engineering. <i>Journal of the American Chemical Society</i> , 2016, 138, 9655-9662.	13.7	71
48	Selectively Modulating Triplet Exciton Formation in Host Materials for Highly Efficient Blue Electrophosphorescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7274-7282.	8.0	26
49	Understanding the Control of Singlet-Triplet Splitting for Organic Exciton Manipulating: A Combined Theoretical and Experimental Approach. <i>Scientific Reports</i> , 2015, 5, 10923.	3.3	151
50	Stabilizing triplet excited states for ultralong organic phosphorescence. <i>Nature Materials</i> , 2015, 14, 685-690.	27.5	1,404
51	A Solution-Processed Resonance Host for Highly Efficient Electrophosphorescent Devices with Extremely Low Efficiency Roll-off. <i>Advanced Materials</i> , 2015, 27, 6939-6944.	21.0	68
52	Heteroatom-Bridged Benzothiazolyls for Organic Solar Cells: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 583-591.	2.6	28
53	Fluorescence Materials: Thermally Activated Delayed Fluorescence Materials Towards the Breakthrough of Organoelectronics ( <i>Adv. Mater.</i> 47/2014). <i>Advanced Materials</i> , 2014, 26, 7930-7930.	21.0	5
54	Efficient synthesis of $\pi$ -extended phenazasilines for optical and electronic applications. <i>Chemical Communications</i> , 2014, 50, 15760-15763.	4.1	41

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55	Thermally Activated Delayed Fluorescence Materials Towards the Breakthrough of Organoelectronics. <i>Advanced Materials</i> , 2014, 26, 7931-7958.	21.0	1,617
56	Dynamically Adaptive Characteristics of Resonance Variation for Selectively Enhancing Electrical Performance of Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10491-10495.	13.8	78
57	Modulation of singlet and triplet excited states through $\pi$ spacers in ternary 1,3,5-triazines. <i>RSC Advances</i> , 2013, 3, 13782.	3.6	6
58	Synthesis and characterization of heteroatom substituted carbazole derivatives: potential host materials for phosphorescent organic light-emitting diodes. <i>New Journal of Chemistry</i> , 2013, 37, 977.	2.8	27
59	Exceptional Blueshifted and Enhanced Aggregation-Induced Emission of Conjugated Asymmetric Triazines and Their Applications in Superamplified Detection of Explosives. <i>Chemistry - A European Journal</i> , 2012, 18, 15655-15661.	3.3	60
60	The structural, electronic, and optical properties of ladder-type polyheterofluorenes: a theoretical study. <i>Journal of Molecular Modeling</i> , 2012, 18, 4929-4939.	1.8	10
61	Computational design and selection of optimal building blocks and linking topologies for construction of high-performance host materials. <i>RSC Advances</i> , 2012, 2, 7860.	3.6	30