

Yaping Zang

List of Publications by Year in Descending Order

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

35
papers

2,768
citations

20
h-index

37
g-index

37
ext. papers

3,244
ext. citations

14
avg, IF

5.34
L-index

#	Paper	IF	Citations
35	Tetrathiafulvalenes as anchors for building highly conductive and mechanically tunable molecular junctions.. <i>Nature Communications</i> , 2022 , 13, 1803	17.4	2
34	Dual Modulation of Single Molecule Conductance via Tuning Side Chains and Electric Field with Conjugated Molecules Entailing Intramolecular O π Interactions.. <i>Advanced Science</i> , 2022 , e2105667	13.6	1
33	Voltage-Induced Single-Molecule Junction Planarization. <i>Nano Letters</i> , 2021 , 21, 673-679	11.5	10
32	Single cycloparaphenylene molecule devices: Achieving large conductance modulation via tuning radial π -conjugation.. <i>Science Advances</i> , 2021 , 7, eabk3095	14.3	2
31	Using Deep Learning to Identify Molecular Junction Characteristics. <i>Nano Letters</i> , 2020 , 20, 3320-3325	11.5	10
30	Observation of Quantum Interference at Room Temperature in a Single Perovskite Quantum Dot. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 145-146	2.2	
29	Cyclopropenylidenes as Strong Carbene Anchoring Groups on Au Surfaces. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19902-19906	16.4	4
28	Cumulene Wires Display Increasing Conductance with Increasing Length. <i>Nano Letters</i> , 2020 , 20, 8415-8419	11.5	15
27	Directing isomerization reactions of cumulenes with electric fields. <i>Nature Communications</i> , 2019 , 10, 4482	17.4	47
26	In Situ Coupling of Single Molecules Driven by Gold-Catalyzed Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16008-16012	16.4	11
25	In Situ Coupling of Single Molecules Driven by Gold-Catalyzed Electrooxidation. <i>Angewandte Chemie</i> , 2019 , 131, 16154-16158	3.6	0
24	Molecular antenna tailored organic thin-film transistors for sensing application. <i>Materials Horizons</i> , 2018 , 5, 240-247	14.4	31
23	Resonant Transport in Single Diketopyrrolopyrrole Junctions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13167-13170	16.4	32
22	A Dual-Organic-Transistor-Based Tactile-Perception System with Signal-Processing Functionality. <i>Advanced Materials</i> , 2017 , 29, 1606088	24	154
21	A reversible single-molecule switch based on activated antiaromaticity. <i>Science Advances</i> , 2017 , 3, eaao2615	26.5	63
20	Electronically Transparent Au-N Bonds for Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14845-14848	16.4	52
19	Pursuing High-Mobility n-Type Organic Semiconductors by Combination of "Molecule-Framework" and "Side-Chain" Engineering. <i>Advanced Materials</i> , 2016 , 28, 8456-8462	24	78

18	Bismuth Interfacial Doping of Organic Small Molecules for High Performance n-type Thermoelectric Materials. <i>Angewandte Chemie</i> , 2016 , 128, 10830-10833	3.6	8
17	Device Engineered Organic Transistors for Flexible Sensing Applications. <i>Advanced Materials</i> , 2016 , 28, 4549-55	24	127
16	Organic Electronics: Pursuing High-Mobility n-Type Organic Semiconductors by Combination of Molecule-Framework and Side-Chain Engineering (Adv. Mater. 38/2016). <i>Advanced Materials</i> , 2016 , 28, 8455-8455	24	
15	Bismuth Interfacial Doping of Organic Small Molecules for High Performance n-type Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10672-5	16.4	66
14	Interface-Located Photothermoelectric Effect of Organic Thermoelectric Materials in Enabling NIR Detection. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8968-73	9.5	30
13	Flexible suspended gate organic thin-film transistors for ultra-sensitive pressure detection. <i>Nature Communications</i> , 2015 , 6, 6269	17.4	400
12	Conjugation-Break Spacers in Semiconducting Polymers: Impact on Polymer Processability and Charge Transport Properties. <i>Macromolecules</i> , 2015 , 48, 2048-2053	5.5	78
11	Modulated Thermoelectric Properties of Organic Semiconductors Using Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 3004-3012	15.6	79
10	Flexible and self-powered temperature-pressure dual-parameter sensors using microstructure-frame-supported organic thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 8356	17.4	330
9	Advances of flexible pressure sensors toward artificial intelligence and health care applications. <i>Materials Horizons</i> , 2015 , 2, 140-156	14.4	765
8	Sensitive Flexible Magnetic Sensors using Organic Transistors with Magnetic-Functionalized Suspended Gate Electrodes. <i>Advanced Materials</i> , 2015 , 27, 7979-85	24	44
7	Two-dimensional expanded quinoidal terthiophenes terminated with dicyanomethylenes as n-type semiconductors for high-performance organic thin-film transistors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16176-84	16.4	132
6	Solution-sheared ultrathin films for highly-sensitive ammonia detection using organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1264	7.1	56
5	An easily accessible carbon material derived from carbonization of polyacrylonitrile ultrathin films: ambipolar transport properties and application in a CMOS-like inverter. <i>Chemical Communications</i> , 2014 , 50, 2374-6	5.8	13
4	Thieno[3,2-b]thiophene-diketopyrrolopyrrole-based quinoidal small molecules: synthesis, characterization, redox behavior, and n-channel organic field-effect transistors. <i>Chemistry - A European Journal</i> , 2014 , 20, 13755-61	4.8	33
3	Specific and reproducible gas sensors utilizing gas-phase chemical reaction on organic transistors. <i>Advanced Materials</i> , 2014 , 26, 2862-7	24	76
2	Effect of a furan bridge on polymer coplanarity and performance in organic field effect transistors. <i>Polymer Chemistry</i> , 2013 , 4, 4199	4.9	14
1	A single-molecule blueprint for synthesis. <i>Nature Reviews Chemistry</i> ,	34.6	3

