Yaping Zang

List of Publications by Year
in descending order

37 papers	3,691 citations	304368 22 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	5851 citing authors

#	Article	IF	Citations
1	Advances of flexible pressure sensors toward artificial intelligence and health care applications. Materials Horizons, 2015, 2, 140-156.	6.4	995
2	Flexible suspended gate organic thin-film transistors for ultra-sensitive pressure detection. Nature Communications, 2015, 6, 6269.	5.8	473
3	Flexible and self-powered temperatureâ€“pressure dual-parameter sensors using microstructure-frame-supported organic thermoelectric materials. Nature Communications, 2015, 6, 8356.	5.8	453
4	A Dualâ€Organicâ€Transistorâ€Based Tactileâ€Perception System with Signalâ€Processing Functionality. Advanced Materials, 2017, 29, 1606088.	11.1	213
5	Two-Dimensional Ï€-Expanded Quinoidal Terthiophenes Terminated with Dicyanomethylenes as n-Type Semiconductors for High-Performance Organic Thin-Film Transistors. Journal of the American Chemical Society, 2014, 136, 16176-16184.	6.6	147
6	Device Engineered Organic Transistors for Flexible Sensing Applications. Advanced Materials, 2016, 28, 4549-4555.	11.1	143
7	Conjugation-Break Spacers in Semiconducting Polymers: Impact on Polymer Processability and Charge Transport Properties. Macromolecules, 2015, 48, 2048-2053.	2.2	106
8	Directing isomerization reactions of cumulenes with electric fields. Nature Communications, 2019, 10, 4482.	5.8	97
9	Modulated Thermoelectric Properties of Organic Semiconductors Using Fieldâ€Effect Transistors. Advanced Functional Materials, 2015, 25, 3004-3012.	7.8	94
10	A reversible single-molecule switch based on activated antiaromaticity. Science Advances, 2017, 3, eaao2615.	4.7	94
11	Pursuing Highâ€Mobility nâ€Type Organic Semiconductors by Combination of â€œMoleculeâ€Frameworkâ€•and â€œSideâ€Chainâ€•Engineering. Advanced Materials, 2016, 28, 8456-8462.	11.1	93
12	Specific and Reproducible Gas Sensors Utilizing Gasâ€Phase Chemical Reaction on Organic Transistors. Advanced Materials, 2014, 26, 2862-2867.	11.1	86
13	Bismuth Interfacial Doping of Organic Small Molecules for High Performance nâ€type Thermoelectric Materials. Angewandte Chemie - International Edition, 2016, 55, 10672-10675.	7.2	77
14	Electronically Transparent Auâ€“N Bonds for Molecular Junctions. Journal of the American Chemical Society, 2017, 139, 14845-14848.	6.6	76
15	Solution-sheared ultrathin films for highly-sensitive ammonia detection using organic thin-film transistors. Journal of Materials Chemistry C, 2014, 2, 1264.	2.7	60
16	Sensitive Flexible Magnetic Sensors using Organic Transistors with Magneticâ€Functionalized Suspended Gate Electrodes. Advanced Materials, 2015, 27, 7979-7985.	11.1	52
17	Resonant Transport in Single Diketopyrrolopyrrole Junctions. Journal of the American Chemical Society, 2018, 140, 13167-13170.	6.6	50
18	Molecular antenna tailored organic thin-film transistors for sensing application. Materials Horizons, 2018, 5, 240-247.	6.4	48

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19	Cumulene Wires Display Increasing Conductance with Increasing Length. Nano Letters, 2020, 20, 8415-8419.	4.5	47
20	Interface-Located Photothermoelectric Effect of Organic Thermoelectric Materials in Enabling NIR Detection. ACS Applied Materials & Interfaces, 2015, 7, 8968-8973.	4.0	45
21	Thieno[3,2â€b]thiopheneâ€Diketopyrrolopyrroleâ€Based Quinoidal Small Molecules: Synthesis, Characterization, Redox Behavior, and nâ€Channel Organic Fieldâ€Effect Transistors. Chemistry - A European Journal, 2014, 20, 13755-13761.	1.7	37
22	Using Deep Learning to Identify Molecular Junction Characteristics. Nano Letters, 2020, 20, 3320-3325.	4.5	27
23	Voltage-Induced Single-Molecule Junction Planarization. Nano Letters, 2021, 21, 673-679.	4.5	25
24	A single-molecule blueprint for synthesis. Nature Reviews Chemistry, 2021, 5, 695-710.	13.8	24
25	In Situ Coupling of Single Molecules Driven by Goldâ€Catalyzed Electrooxidation. Angewandte Chemie - International Edition, 2019, 58, 16008-16012.	7.2	23
26	Single cycloparaphenylene molecule devices: Achieving large conductance modulation via tuning radial Ï€-conjugation. Science Advances, 2021, 7, eabk3095.	4.7	19
27	Effect of a furan Ï€-bridge on polymer coplanarity and performance in organic field effect transistors. Polymer Chemistry, 2013, 4, 4199.	1.9	18
28	Tetrathiafulvalenes as anchors for building highly conductive and mechanically tunable molecular junctions. Nature Communications, 2022, 13, 1803.	5.8	15
29	An easily accessible carbon material derived from carbonization of polyacrylonitrile ultrathin films: ambipolar transport properties and application in a CMOS-like inverter. Chemical Communications, 2014, 50, 2374.	2.2	13
30	Cyclopropenylidenes as Strong Carbene Anchoring Groups on Au Surfaces. Journal of the American Chemical Society, 2020, 142, 19902-19906.	6.6	11
31	Bismuth Interfacial Doping of Organic Small Molecules for High Performance nâ€type Thermoelectric Materials. Angewandte Chemie, 2016, 128, 10830-10833.	1.6	10
32	Dual Modulation of Single Molecule Conductance via Tuning Side Chains and Electric Field with Conjugated Molecules Entailing Intramolecular Oâ€¢â€¢â€¢S Interactions. Advanced Science, 2022, 9, e2105667.	5.6	6
33	Femtosecond Laser-Assisted Device Engineering: Toward Organic Field-Effect Transistor-Based High-Performance Gas Sensors. ACS Applied Materials & Interfaces, 2022, 14, 32299-32307.	4.0	6
34	Substitution pattern controlled charge transport in BN-embedded aromatics-based single molecule junctions. Physical Chemistry Chemical Physics, 2022, 24, 2227-2233.	1.3	5
35	In Situ Coupling of Single Molecules Driven by Goldâ€Catalyzed Electrooxidation. Angewandte Chemie, 2019, 131, 16154-16158.	1.6	3
36	Organic Electronics: Pursuing Highâ€Mobility nâ€Type Organic Semiconductors by Combination of â€œMoleculeâ€Frameworkâ€• and â€œSideâ€Chainâ€• Engineering (Adv. Mater. 38/2016). Advanced Materials, 2016, 28, 8455-8455.	16.1	0

#	Article	IF	Citations
37	Observation of Quantum Interference at Room Temperature in a Single Perovskite Quantum Dot. Chemical Research in Chinese Universities, 2020, 36, 145-146.	1.3	0