Yu-Mo Zhang

List of Publications by Year
in descending order

45 papers	1,761 citations	304743 22 h-index	276875 41 g-index
47 all docs	47 docs citations	47 times ranked	1904 citing authors

#	Article	IF	Citations
1	Advances in nanomaterials for electrochromic devices. Chemical Society Reviews, 2020, 49, 8687-8720.	38.1	198
2	Dynamic Behavior of Molecular Switches in Crystal under Pressure and Its Reflection on Tactile Sensing. Journal of the American Chemical Society, 2015, 137, 931-939.	13.7	189
3	A multicolour bistable electronic shelf label based on intramolecular proton-coupled electron transfer. Nature Materials, 2019, 18, 1335-1342.	27.5	161
4	Photostable and Low-Toxic Yellow-Green Carbon Dots for Highly Selective Detection of Explosive 2,4,6-Trinitrophenol Based on the Dual Electron Transfer Mechanism. ACS Applied Materials & Interfaces, 2018, 10, 13040-13047.	8.0	121
5	Bio-inspired ultra-high energy efficiency bistable electronic billboard and reader. Nature Communications, 2019, 10, 1559.	12.8	96
6	Stimuli-Induced Reversible Proton Transfer for Stimuli-Responsive Materials and Devices. Accounts of Chemical Research, 2021, 54, 2216-2226.	15.6	73
7	Facile Synthesis, Macroscopic Separation, E/Z Isomerization, and Distinct AIE properties of Pure Stereoisomers of an Oxetane-Substituted Tetraphenylethene Luminogen. Chemistry of Materials, 2016, 28, 6628-6636.	6.7	71
8	An RGB color-tunable turn-on electrofluorochromic device and its potential for information encryption. Chemical Communications, 2017, 53, 11209-11212.	4.1	60
9	Non-invasive fluorescence switch in polymer films based on spiropyran-photoacid modified TPE. Journal of Materials Chemistry C, 2018, 6, 2113-2122.	5.5	59
10	A single-molecule multicolor electrochromic device generated through medium engineering. Light: Science and Applications, 2015, 4, e249-e249.	16.6	56
11	Endowing Hydrochromism to Fluorans via Bioinspired Alteration of Molecular Structures and Microenvironments and Expanding Their Potential for Rewritable Paper. ACS Applied Materials & Interfaces, 2017, 9, 38032-38041.	8.0	50
12	Pyrene spiropyran dyad: solvato-, acido- and mechanofluorochromic properties and its application in acid sensing and reversible fluorescent display. Journal of Materials Chemistry C, 2018, 6, 6940-6948.	5.5	41
13	A new class of â€œelectro-acid/baseâ€•induced reversible methyl ketone colour switches. Journal of Materials Chemistry C, 2013, 1, 5309.	5.5	40
14	An AIE fluorescent switch with multi-stimuli responsive properties and applications for quantitatively detecting pH value, sulfite anion and hydrostatic pressure. Materials Chemistry Frontiers, 2019, 3, 1052-1061.	5.9	40
15	A see-through electrochromic display via dynamic metal-ligand interactions. CheM, 2021, 7, 1308-1320.	11.7	39
16	Highly durable colour/emission switching of fluorescein in a thin film device using â€œelectro-acid/baseâ€•as in situ stimuli. Chemical Communications, 2014, 50, 1420.	4.1	38
17	Highly stretchable electrochromic hydrogels for use in wearable electronic devices. Journal of Materials Chemistry C, 2019, 7, 9481-9486.	5.5	38
18	A Singleâ€Pixel RGB Device in a Colorful Alphanumeric Electrofluorochromic Display. Advanced Materials, 2020, 32, e2003121.	21.0	34

#	Article	IF	Citations
19	Recent advances in poly(ionic liquid)s for electrochromic devices. Journal of Materials Chemistry C, 2021, 9, 4730-4741.	5.5	26
20	Green revolution in electronic displays expected to ease energy and health crises. Light: Science and Applications, 2021, 10, 33.	16.6	25
21	Dynamic Metalâ€“Ligand Interaction of Synergistic Polymers for Bistable Seeâ€Through Electrochromic Devices. Advanced Materials, 2022, 34, e2104413.	21.0	25
22	Electrochromic Switching and Microkinetic Behaviour of Oxazine Derivatives and Their Applications. European Journal of Organic Chemistry, 2014, 2014, 1227-1235.	2.4	24
23	A Transparent Multidimensional Electrode with Indium Tin Oxide Nanofibers and Gold Nanoparticles for Bistable Electrochromic Devices. ACS Applied Materials & Interfaces, 2020, 12, 27453-27460.	8.0	22
24	A High Contrast Triâ€state Fluorescent Switch: Properties and Applications. Chemistry - an Asian Journal, 2016, 11, 3205-3212.	3.3	21
25	A fluorescence molecular switch with high contrast multi-emissions and ON/OFF states. RSC Advances, 2016, 6, 90305-90309.	3.6	20
26	Tunable RGB luminescence of a single molecule with high quantum yields through a rational design. Journal of Materials Chemistry C, 2016, 4, 1527-1532.	5.5	17
27	Reversible Bond/Cation-Coupled Electron Transfer on Phenylenediamine-Based Rhodamine B and Its Application on Electrochromism. ACS Applied Materials & Interfaces, 2017, 9, 20196-20204.	8.0	16
28	A Strategy of Stabilization via Active Energy-Exchange for Bistable Electrochromic Displays. CCS Chemistry, 2022, 4, 2757-2767.	7.8	15
29	Multiâ€Component Collaborative Stepâ€byâ€Step Coloring Strategy to Achieve Highâ€Performance Lightâ€Responsive Colorâ€Switching. Advanced Science, 2022, 9, e2103309.	11.2	15
30	A Multiâ€Stimuliâ€Responsive Oxazine Molecular Switch: A Strategy for the Design of Electrochromic Materials. Chemistry - an Asian Journal, 2018, 13, 1206-1212.	3.3	14
31	Bio-inspired enol-degradation for multipurpose oxygen sensing. Chemical Communications, 2014, 50, 13477-13480.	4.1	13
32	A methyl ketone bridged molecule as a multi-stimuli-responsive color switch for electrochromic devices. Journal of Materials Chemistry C, 2016, 4, 4662-4667.	5.5	11
33	A transparent 3D electrode with a criss-crossed nanofiber network for solid electrochromic devices. Journal of Materials Chemistry C, 2017, 5, 11059-11066.	5.5	11
34	Fabrication and photoelectric properties of bio-inspired honeycomb film based on semiconducting polymer. Journal of Colloid and Interface Science, 2018, 512, 1-6.	9.4	11
35	Three primary color (cyan/magenta/yellow) switchable electrochromic devices based on PEDOT:PSS and â€˜electrobase/electroacidâ€™ theory. New Journal of Chemistry, 2019, 43, 8410-8413.	2.8	11
36	Spontaneous proton transfer in a series of amphoteric molecules under hydrostatic pressure. Physical Chemistry Chemical Physics, 2019, 21, 17696-17702.	2.8	10

#	Article	IF	Citations
37	Construction of highly fluorescent Nâ€“O seven-membered heterocyclesviathermo-oxidation of oxazolidines. Journal of Materials Chemistry C, 2019, 7, 8045-8052.	5.5	10
38	A Multiple Chirality Switching Device for Spatial Light Modulators. Angewandte Chemie - International Edition, 2021, 60, 2018-2023.	13.8	10
39	Photoâ€/Basoâ€Chromisms and the Application of aâ€‰Dualâ€Addressable Molecular Switch. Chemistry - an Asian Journal, 2019, 14, 2838-2845.	3.3	9
40	Strong and insusceptible photo-emissions from an intramolecular weak hydrogen bond strengthened twisted fluorophore. Physical Chemistry Chemical Physics, 2018, 20, 23851-23855.	2.8	6
41	Luciferin inspired oxygen sensing with alternant change of color and fluorescence. Dyes and Pigments, 2017, 138, 1-6.	3.7	5
42	Firefly-Inspired Approach to Develop New Chemiluminescence Materials. IScience, 2019, 13, 478-487.	4.1	4
43	A Multiple Chirality Switching Device for Spatial Light Modulators. Angewandte Chemie, 2021, 133, 2046-2051.	2.0	2
44	A flexible flame-retardant electrochromic device. Materials Letters, 2022, 317, 132106.	2.6	2
45	Emissions and the application of a series of twisted fluorophores with intramolecular weak hydrogen bonds. RSC Advances, 2019, 9, 13214-13219.	3.6	1