

Wei-Jie Chi

List of Publications by Year in descending order

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87
papers

3,086
citations

172207

29
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174990

52
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all docs

90
docs citations

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times ranked

2481
citing authors

#	ARTICLE	IF	CITATIONS
1	Twisted intramolecular charge transfer (TICT) and twists beyond TICT: from mechanisms to rational designs of bright and sensitive fluorophores. <i>Chemical Society Reviews</i> , 2021, 50, 12656-12678.	18.7	221
2	Achieving Amorphous Ultralong Room Temperature Phosphorescence by Coassembling Planar Small Organic Molecules with Polyvinyl Alcohol. <i>Advanced Functional Materials</i> , 2019, 29, 1807243.	7.8	147
3	Quaternary Piperazine-Substituted Rhodamines with Enhanced Brightness for Super-Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 14491-14495.	6.6	140
4	Structural Engineering of Luminogens with High Emission Efficiency Both in Solution and in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11419-11423.	7.2	133
5	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10160-10172.	7.2	131
6	Exploring the electrochemical properties of hole transport materials with spiro-cores for efficient perovskite solar cells from first-principles. <i>Nanoscale</i> , 2016, 8, 6146-6154.	2.8	124
7	A General Descriptor $\hat{\Gamma}^E$ Enables the Quantitative Development of Luminescent Materials Based on Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 6777-6785.	6.6	115
8	The theoretical investigation on the 4-(4-phenyl-4- β -naphthylbutadieny)-triphenylamine derivatives as hole transporting materials for perovskite-type solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5991-5998.	1.3	84
9	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4328-4333.	7.2	82
10	Molecular Mechanism of Viscosity Sensitivity in BODIPY Rotors and Application to Motion-Based Fluorescent Sensors. <i>ACS Sensors</i> , 2020, 5, 731-739.	4.0	80
11	An Approach to Developing Cyanines with Simultaneous Intersystem Crossing Enhancement and Excited-State Lifetime Elongation for Photodynamic Antitumor Metastasis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12345-12354.	6.6	80
12	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7073-7077.	7.2	79
13	Simple-structured small molecule acceptors constructed by a weakly electron-deficient thiazolothiazole core for high-efficiency non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24267-24276.	5.2	78
14	De novo strategy with engineering anti-Kasha/Kasha fluorophores enables reliable ratiometric quantification of biomolecules. <i>Nature Communications</i> , 2020, 11, 793.	5.8	74
15	A H-bond strategy to develop acid-resistant photoswitchable rhodamine spirolactams for super-resolution single-molecule localization microscopy. <i>Chemical Science</i> , 2019, 10, 4914-4922.	3.7	72
16	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6915-6922.	7.2	71
17	A strategy to improve the efficiency of hole transporting materials: introduction of a highly symmetrical core. <i>Nanoscale</i> , 2016, 8, 17752-17756.	2.8	62
18	A Unified Push-Pull Model for Understanding the Ring-Opening Mechanism of Rhodamine Dyes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3793-3801.	1.5	58

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19	Bio-orthogonal Red and Far-Red Fluorogenic Probes for Wash-Free Live-Cell and Super-resolution Microscopy. <i>ACS Central Science</i> , 2021, 7, 1561-1571.	5.3	57
20	Aggregation-induced emission or aggregation-caused quenching? Impact of covalent bridge between tetraphenylethene and naphthalimide. <i>Chinese Chemical Letters</i> , 2021, 32, 1790-1794.	4.8	54
21	A Highly Reversible Mechanochromic Difluorobenzothiadiazole Dye with Near-Infrared Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 3671-3676.	1.7	52
22	Fluorescence umpolung enables light-up sensing of N-acetyltransferases and nerve agents. <i>Nature Communications</i> , 2021, 12, 3869.	5.8	51
23	Simple-Structured NIR-Absorbing Small-Molecule Acceptors with a Thiazolothiazole Core: Multiple Noncovalent Conformational Locks and D ^A Effect for Efficient OSCs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48128-48133.	4.0	50
24	Descriptor Γ^G Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20215-20223.	7.2	50
25	How to regulate energy levels and hole mobility of spiro-type hole transport materials in perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27073-27077.	1.3	45
26	Effects of Molecular Configuration on Charge Diffusion Kinetics within Hole-Transporting Materials for Perovskites Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8584-8590.	1.5	40
27	Optimizing thienothiophene chain lengths of D ^A hole transport materials in perovskite solar cells for improving energy levels and hole mobility. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10055-10060.	2.7	37
28	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie</i> , 2020, 132, 10246-10258.	1.6	36
29	Emissive Nature and Molecular Behavior of Zero-Dimensional Organic-Inorganic Metal Halides Bmpip ₂ MX ₄ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5234-5240.	2.1	33
30	Overcoming Spectral Dependence: A General Strategy for Developing Far-Red and Near-Infrared Ultra-Fluorogenic Tetrazine Bioorthogonal Probes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	31
31	Molecular design of NO ₂ -substituted cycloalkanes derivatives C _m (NO ₂) _m for energetic materials with high detonation performance and low impact sensitivity. <i>RSC Advances</i> , 2015, 5, 38048-38055.	1.7	30
32	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. <i>Angewandte Chemie</i> , 2019, 131, 4372-4377.	1.6	28
33	A unified fluorescence quenching mechanism of tetrazine-based fluorogenic dyes: energy transfer to a dark state. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7012-7021.	3.2	28
34	Towards tetrazine-based near-infrared fluorogenic dyes: Is there a wavelength limit?. <i>Dyes and Pigments</i> , 2020, 177, 108313.	2.0	25
35	Revealing the switching mechanisms of an off-on-off fluorescent logic gate system. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16798-16803.	1.3	23
36	Effects of water molecules on the chemical stability of MAGel ₃ perovskite explored from a theoretical viewpoint. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24526-24536.	1.3	22

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37	Structural Engineering of Luminogens with High Emission Efficiency Both in Solution and in the Solid State. <i>Angewandte Chemie</i> , 2019, 131, 11541-11545.	1.6	21
38	Regulation of aggregation-induced emission behaviours and mechanofluorochromism of tetraphenylethene through different oxidation states of sulphur moieties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8244-8249.	2.7	21
39	Theoretical design of highly energetic poly-nitro cage compounds. <i>RSC Advances</i> , 2016, 6, 47607-47615.	1.7	20
40	Effect of thiophene chain lengths on the optical and hole transport properties for perovskite solar cells. <i>Synthetic Metals</i> , 2016, 211, 107-114.	2.1	20
41	Unusual intermolecular charge transfer enables supramolecular fluorescent viscosity sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 55-61.	4.0	19
42	Molecular Origins of Photoinduced Backward Intramolecular Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16820-16826.	1.5	19
43	Restriction of Twisted Intramolecular Charge Transfer Enables the Aggregation-Induced Emission of 1-(<i>N,N</i> -Dialkylamino)-naphthalene Derivatives. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8397-8403.	1.1	19
44	Ground-state conformers enable bright single-fluorophore ratiometric thermometers with positive temperature coefficients. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2383-2390.	3.2	18
45	Descriptor ρ^{G} Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie</i> , 2020, 132, 20390-20398.	1.6	18
46	Pentadiamond: A Highly Efficient Electron Transport Layer for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5372-5379.	1.5	18
47	Energy transfer followed by electron transfer (ETET) endows a TPE-NBD dyad with enhanced environmental sensitivity. <i>Chinese Chemical Letters</i> , 2021, 32, 1937-1941.	4.8	18
48	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie</i> , 2019, 131, 7147-7151.	1.6	17
49	How to stabilize the HOMO levels and to improve the charge transport properties of hole-transporting materials? Introducing a symmetrical core unit. <i>Synthetic Metals</i> , 2019, 247, 157-162.	2.1	17
50	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room-Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
51	Looking for high energy density compounds among polynitraminecubanes. <i>Journal of Molecular Modeling</i> , 2013, 19, 571-580.	0.8	16
52	Boron-nitrogen substituted planar cores: designing dopant-free hole-transporting materials for efficient perovskite solar cells. <i>Nanoscale</i> , 2021, 13, 4241-4248.	2.8	16
53	Density functional calculations for a high energy density compound of formula $C_6H_6^n(NO_2)_n$. <i>Journal of Molecular Modeling</i> , 2012, 18, 3695-3704.	0.8	15
54	Positional Effect of the Triphenylamine Group on the Optical and Charge-Transfer Properties of Thiophene-Based Hole-Transporting Materials. <i>Chemistry - an Asian Journal</i> , 2020, 15, 287-293.	1.7	15

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55	Molecular design of prismane-based potential energetic materials with high detonation performance and low impact sensitivity. <i>Comptes Rendus Chimie</i> , 2015, 18, 1270-1276.	0.2	14
56	Theoretical investigation on the heats of formation and detonation performance in polydinitroaminocubanes. <i>Journal of Molecular Modeling</i> , 2012, 18, 4217-4223.	0.8	13
57	Density functional calculation on a high energy density compound having the formula C ₂ O ₄ n (NO ₂) _n . <i>Structural Chemistry</i> , 2012, 23, 1837-1841.	1.0	13
58	Theoretical prediction of detonation performance and stability for energetic polydinitroaminoprismans. <i>RSC Advances</i> , 2015, 5, 7766-7772.	1.7	13
59	High carrier mobility and remarkable photovoltaic performance of two-dimensional Ruddlesden-Popper organic-inorganic metal halides (PA) ₂ (MA) ₂ M ₃ I ₁₀ for perovskite solar cell applications. <i>Materials Today</i> , 2021, 47, 45-52.	8.3	12
60	Non-fullerene electron acceptors constructed by simple electron-withdrawing core: Distinct effect of bithiazole vs thiazolothiazole core on photovoltaic properties. <i>Dyes and Pigments</i> , 2020, 177, 108319.	2.0	11
61	Accelerating evaluation of the mobility of ionic liquid-modulated PEDOT flexible electronics using machine learning. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25547-25557.	5.2	11
62	Density function theory study on energetic nitro-triaziridine derivatives. <i>Structural Chemistry</i> , 2013, 24, 375-381.	1.0	10
63	Looking for high energy density compounds among polynitraminepurines. <i>Journal of Molecular Modeling</i> , 2013, 19, 3491-3499.	0.8	10
64	Strong π-π stacking interactions led to the mis-assignment of dimer emissions to the monomers of 1-acetylpyrene. <i>Chinese Chemical Letters</i> , 2019, 30, 601-604.	4.8	10
65	State-crossing from a Locally Excited to an Electron Transfer State(SLEET) Model Rationalizing the Aggregation-induced Emission Mechanism of (Bi)piperidylanthracenes. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 157-161.	1.3	9
66	A π-extended triphenylamine based dopant-free hole-transporting material for perovskite solar cells via heteroatom substitution. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4635-4643.	1.3	9
67	Revealing the Sole Impact of Acceptor's Molecular Conformation to Energy Loss and Device Performance of Organic Solar Cells through Positional Isomers. <i>Advanced Science</i> , 2022, 9, e2103428.	5.6	9
68	Density functional study on the derivatives of purine. <i>Journal of Molecular Modeling</i> , 2012, 18, 3501-3506.	0.8	8
69	Molecular Origins of Heteroatom Engineering on the Emission Wavelength Tuning, Quantum Yield Variations and Fluorogenicity of NBD-like SCOTfluors. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4082-4086.	1.7	8
70	Theoretical investigation on detonation performances and thermodynamic stabilities of the prismane derivatives. <i>Journal of Molecular Modeling</i> , 2013, 19, 1049-1057.	0.8	7
71	Strategy of improving the stability and detonation performance for energetic material by introducing the boron atoms. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3699.	0.9	7
72	Room Temperature Phosphorescence: Achieving Amorphous Ultralong Room Temperature Phosphorescence by Coassembling Planar Small Organic Molecules with Polyvinyl Alcohol (Adv.) <i>Tj ETQq0 0 0 rgBT70verlock710 Tf 50 5</i>		

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73	Computational studies on thermodynamic properties, detonation properties and bond dissociation energies for polydifluoroaminopurine compounds. <i>Comptes Rendus Chimie</i> , 2013, 16, 765-772.	0.2	6
74	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room-Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie</i> , 0, , .	1.6	6
75	Computational studies on polynitropurines as potential high energy density materials. <i>Journal of Molecular Modeling</i> , 2013, 19, 2235-2242.	0.8	5
76	The photocatalytic mechanism of organic dithienophosphole derivatives as highly efficient photo-redox catalysts. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20721-20731.	1.3	5
77	A Systematic Study on the Relationship Between Viscosity Sensitivity and Temperature Dependency of BODIPY Rotors. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 91-94.	1.0	5
78	Density functional theory calculations on the thermodynamic properties of polynitrosoprismanes. <i>Journal of Molecular Modeling</i> , 2012, 18, 4557-4563.	0.8	4
79	Strategy for designing stable and powerful nitrogen-rich high-energy materials by introducing boron atoms. <i>Journal of Molecular Modeling</i> , 2017, 23, 191.	0.8	4
80	Polymerization of phenylacetylenes by binuclear rhodium catalysts with different para-binucleating phenoxyiminato linkages. <i>Polymer Chemistry</i> , 2019, 10, 4163-4172.	1.9	4
81	New potential high energy density compounds: Oxadiaziridine derivatives. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 1700-1705.	0.1	3
82	Overcoming Spectral Dependence: A General Strategy for Developing Far-Red and Near-Infrared Ultra-Fluorogenic Tetrazine Bioorthogonal Probes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
83	Visualizing Microglia with a Fluorescence Turn-On Ugt1a7c Substrate. <i>Angewandte Chemie</i> , 2019, 131, 8056-8060.	1.6	2
84	Emerging Design Principle of Near-Infrared Upconversion Sensitizer Based on Mitochondria-Targeted Organic Dye for Enhanced Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2021, 27, 16707-16715.	1.7	2
85	Is 1-nitro-1-triazene a high energy density material?. <i>Journal of Molecular Modeling</i> , 2014, 20, 2362.	0.8	1
86	Effect of Nitrogen-Doping on Detonation and Stability Properties of CL-20 Derivatives from a Theoretical Viewpoint. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 1044-1050.	1.0	1
87	Substituent effects on the properties related to detonation performance and stability for pentaprismene derivatives. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	0