

Hou-Yu Zhang

List of Publications by Year in descending order

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96
papers

3,658
citations

126858

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143943

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times ranked

4375
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics-Driven Controlled Polymerization to Synthesize Fully Renewable Poly(esterâ€“ether)s. <i>Macromolecules</i> , 2022, 55, 190-200.	2.2	10
2	Self-Assembly of Metallo-Supramolecules with Dissymmetrical Ligands and Characterization by Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 1224-1234.	6.6	33
3	Surface-Doped Organic Charge Transfer Cocrystal Heterostructures and Their Variable Dual-Color Light Emission and Propagation. <i>Crystal Growth and Design</i> , 2021, 21, 2699-2710.	1.4	9
4	Photocatalytic activity of co-doped Janus monolayer MoSSe for solar water splitting: A computational investigation. <i>Applied Surface Science</i> , 2021, 544, 148741.	3.1	25
5	Conformational Control of a Metalloâ€“Supramolecular Cage via the Dissymmetrical Modulation of Ligands. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26523-26527.	7.2	21
6	Color tuning of di-boron derived TADF emitters: molecular design and property prediction. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15309-15320.	2.7	10
7	Programmable photoresponsive materials based on a single molecule <i>via</i> distinct topochemical reactions. <i>Chemical Science</i> , 2021, 12, 15588-15595.	3.7	20
8	Quantifiable stretching-induced fluorescence shifts of an elastically bendable and plastically twistable organic crystal. <i>Chemical Science</i> , 2021, 12, 15423-15428.	3.7	32
9	Crystal Engineering of a Hydrazone Molecule toward High Elasticity and Bright Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9178-9183.	2.1	37
10	Bio-Based Polyesters with High Glass-Transition Temperatures and Gas Barrier Properties Derived from Renewable Rigid Tricyclic Diacid or Tetracyclic Anhydride. <i>Macromolecules</i> , 2020, 53, 5475-5486.	2.2	23
11	Extension of ð-conjugation and enhancement of electron-withdrawing ability at terminal indenedione for A-ð-D-ð-A small molecules for application in organic solar cells. <i>Organic Electronics</i> , 2020, 81, 105679.	1.4	10
12	Unraveling the marked differences of the phosphorescence efficiencies of blue-emitting iridium complexes with isomerized phenyltriazole ligands. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2776-2787.	3.0	5
13	Flexible control of excited state transition under pressure/temperature: distinct stimuli-responsive behaviours of two ESIPT polymorphs. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2128-2136.	3.2	18
14	Helical supramolecular polymer nanotubes with wide lumen for glucose transport: towards the development of functional membrane-spanning channels. <i>Chemical Science</i> , 2019, 10, 8648-8653.	3.7	20
15	Towards deepâ€“blue phosphorescence: molecular design and property prediction of iridium complexes with pyridinylphosphinate ancillary ligand. <i>Applied Organometallic Chemistry</i> , 2019, 33, e5167.	1.7	5
16	J-Aggregate Behavior of Poly[(9,9'-dioctyluorenyl-2,7-diyl)-<i>alt</i>-co-(bithiophene)] (F8T2) in Crystal and Liquid Crystal Phases. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24321-24327.	1.5	4
17	The remarkable structural comparison between two-dimensional and three-dimensional of 4,4â€“2-trimethylenedipyridine/1,3,5-trifluoro-2,4,6-triiodobenzene co-crystal. <i>Thin Solid Films</i> , 2019, 685, 263-268.	0.8	1
18	Solvation-Enhanced Intermolecular Charge Transfer Interaction in Organic Cocrystals: Enlarged Câ€“C Surface Close Contact in Mixed Packing between PTZ and TCNB. <i>ACS Omega</i> , 2019, 4, 10424-10430.	1.6	13

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19	Rigidified and expanded N-annulated perylenes as efficient donors in organic sensitizers for application in solar cells. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10488-10496.	1.3	11
20	Modulation of Electron-Donating Ability in D ^π A Small Molecules for Application in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1069-1081.	1.5	16
21	Pressure-induced remarkable luminescence-changing behaviours of 9, 10-distyrylanthracene and its derivatives with distinct substituents. <i>Dyes and Pigments</i> , 2019, 161, 182-187.	2.0	11
22	Fluorescence Regulation and Photoresponsivity in AIEE Supramolecular Gels Based on a Cyanostilbene Modified Benzene-1,3,5-Tricarboxamide Derivative. <i>Chemistry - A European Journal</i> , 2019, 25, 315-322.	1.7	34
23	Room-Temperature Self-Healing and Recyclable Tough Polymer Composites Using Nitrogen-Coordinated Boroxines. <i>Advanced Functional Materials</i> , 2018, 28, 1800560.	7.8	192
24	Bringing Hetero-Polyacid-Based Underwater Adhesive as Printable Cathode Coating for Self-Powered Electrochromic Aqueous Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1800599.	7.8	57
25	Reversible Emission Shift: Pressure-Induced Wide-Range Reversible Emission Shift of Triphenylamine-Substituted Anthracene via Hybridized Local and Charge Transfer (HLCT) Excited State (<i>Advanced Optical Materials</i> 3/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870013.	3.6	3
26	Counteranion-Mediated Intrinsic Healing of Poly(ionic liquid) Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2105-2113.	4.0	59
27	Pressure-Induced Wide-Range Reversible Emission Shift of Triphenylamine-Substituted Anthracene via Hybridized Local and Charge Transfer (HLCT) Excited State. <i>Advanced Optical Materials</i> , 2018, 6, 1700647.	3.6	49
28	Quantum-Chemical Insights into the Phosphorescence Efficiencies of Blue-Emitting Platinum Complexes with Phenylene-Bridged Pincer Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 12174-12186.	1.9	11
29	Systematic Study of the Effect of Auxiliary Acceptors in D ^π A Sensitizers Used on Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23890-23898.	1.5	20
30	Investigation of supramolecular interaction in 4, 4'-bipyridine crystal by hydrostatic pressure spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 202, 70-75.	2.0	1
31	Molecular design towards suppressing electron recombination and enhancing the light-absorbing ability of dyes for use in sensitized solar cells: a theoretical investigation. <i>New Journal of Chemistry</i> , 2018, 42, 12891-12899.	1.4	10
32	Pillar[5]arene-based [1]rotaxane: high-yield synthesis, characterization and application in Knoevenagel reaction. <i>Chemical Communications</i> , 2017, 53, 5326-5329.	2.2	65
33	ESIPT-active organic compounds with white luminescence based on crystallization-induced keto emission (CIKE). <i>Chemical Communications</i> , 2017, 53, 7832-7835.	2.2	62
34	Rigid fused π -spacers in D ^π A type molecules for dye-sensitized solar cells: a computational investigation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11454-11465.	2.7	56
35	Modulating the assembly of N-benzylideneaniline by halogen bonding: crystal, cocrystal and liquid crystals. <i>CrystEngComm</i> , 2017, 19, 3801-3807.	1.3	15
36	A systematic study of phenoxazine-based organic sensitizers for solar cells. <i>Dyes and Pigments</i> , 2017, 137, 12-23.	2.0	61

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37	Terminal Modulation of D π -A Small Molecule for Organic Photovoltaic Materials: A Theoretical Molecular Design. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28939-28950.	1.5	41
38	1,3-Diarylsquaraine Diketone Organic Crystals with Red Amplified Spontaneous Emission. <i>ChemPlusChem</i> , 2016, 81, 1320-1325.	1.3	8
39	Conformational polymorphism of a twisted conjugated molecule: controllable torsional motion for crystal growth selectivity. <i>CrystEngComm</i> , 2016, 18, 6824-6829.	1.3	17
40	Highly efficient blue solid emitters and tautomerization-induced ON/OFF fluorescence switching based on structurally simple 3(5)-phenol-1H-pyrazoles. <i>Chemical Communications</i> , 2016, 52, 13128-13131.	2.2	11
41	Effects of Sulfur Oxidation on the Electronic and Charge Transport Properties of Fused Oligothiophene Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14484-14494.	1.5	12
42	On the properties of Se π -N interaction: the analysis of substituent effects by energy decomposition and orbital interaction. <i>Journal of Molecular Modeling</i> , 2016, 22, 29.	0.8	2
43	Organic Crystals with Near-Infrared Amplified Spontaneous Emissions Based on 2-Hydroxychalcone Derivatives: Subtle Structure Modification but Great Property Change. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8369-8373.	7.2	153
44	Electronic and charge transport properties of dimers of dithienothiophenes: effect of structural symmetry and linking mode. <i>RSC Advances</i> , 2015, 5, 50212-50222.	1.7	13
45	2-(2-Hydroxyphenyl)benzimidazole-Based Four-Coordinate Boron-Containing Materials with Highly Efficient Deep-Blue Photoluminescence and Electroluminescence. <i>Inorganic Chemistry</i> , 2015, 54, 2652-2659.	1.9	74
46	The facile realization of RGB luminescence based on one yellow emissive four-coordinate organoboron material. <i>Chemical Communications</i> , 2015, 51, 7701-7704.	2.2	39
47	Reversible Piezofluorochromic Property and Intrinsic Structure Changes of Tetra(4-methoxyphenyl)ethylene under High Pressure. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9218-9224.	1.1	36
48	On the properties of S π -O and S π -I π noncovalent interactions: the analysis of geometry, interaction energy and electron density. <i>New Journal of Chemistry</i> , 2015, 39, 1611-1618.	1.4	36
49	Charge-transfer complexes of iodoform with 1,4-dioxane, -dithiane, and -diselenane: Theoretical electron density and energy decomposition analysis. <i>Computational and Theoretical Chemistry</i> , 2014, 1044, 80-86.	1.1	7
50	CEE-active red/near-infrared fluorophores with triple-channel solid-state ON/OFF fluorescence switching. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7385-7391.	2.7	30
51	Can a linear metal-metal bonded array of tetravanadium be stabilized between two dicyclopenta[a,e]pentalene ligands? A theoretical investigation. <i>New Journal of Chemistry</i> , 2014, 38, 1092.	1.4	5
52	The substituent effect on charge transport property of triisopropylsilylethynyl anthracene derivatives. <i>Organic Electronics</i> , 2014, 15, 2476-2485.	1.4	27
53	Towards Deep-Blue Phosphorescence: Molecular Design, Synthesis and Theoretical Study of Iridium Complexes with Cyclometalating 2-Phenyl-2H-[1,2,3]triazole Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4843-4851.	1.0	5
54	Morphology-dependent fluorescence ON/OFF of a beryllium complex: ACQ in amorphous solids, AEE in crystalline powders and the dark/bright fluorescence switch. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7507.	2.7	36

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55	Structural and Bonding Analyses on a Homologous Metal@Metal Bond Guest@Host Series $M_{2}@C_{50}X_{10}$ (M = Zn, Cd, Hg; X = CH, N, B). <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2220-2230.	1.0	5
56	Theoretical investigation of electronic structure and charge transport property of 9,10-distyrylanthracene (DSA) derivatives with high solid-state luminescent efficiency. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2449.	1.3	39
57	Exchange narrowing and exciton delocalization in disordered J aggregates: Simulated peak shapes in the two dimensional spectra. <i>Journal of Chemical Physics</i> , 2013, 139, 034313.	1.2	17
58	Supramolecular interaction-induced self-assembly of organic molecules into ultra-long tubular crystals with wave guiding and amplified spontaneous emission. <i>Journal of Materials Chemistry</i> , 2012, 22, 1592-1597.	6.7	50
59	Electronic and Charge Transport Properties of <i>peri</i> -Xanthenoxanthene: The Effects of Heteroatoms and Phenyl Substitutions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22679-22686.	1.5	43
60	Hierarchical Dynamics of Correlated System@Environment Coherence and Optical Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5678-5684.	1.2	33
61	Impact of Methylchalcogeno Substitution on the Electronic and Charge Transport Properties of Bis(methylchalcogeno)acenes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20674-20681.	1.5	15
62	Theoretical Study of Isomerism/Phase Dependent Charge Transport Properties in Tris(8-hydroxyquinolato)aluminum(III). <i>Journal of Physical Chemistry A</i> , 2011, 115, 9259-9264.	1.1	12
63	A Multifunctional Fluorescence Probe for the Detection of Cations in Aqueous Solution: the Versatility of Probes Based on Peptides. <i>Journal of Fluorescence</i> , 2011, 21, 1921-1931.	1.3	16
64	@@ interaction of quinacridone derivatives. <i>Journal of Computational Chemistry</i> , 2011, 32, 2055-2063.	1.5	11
65	Bipolar Host Molecules for Efficient Blue Electrophosphorescence: A Quantum Chemical Design. <i>Journal of Physical Chemistry A</i> , 2010, 114, 965-972.	1.1	26
66	Theoretical studies on electronic and electron blocking properties of iridium complexes with phenylpyrazolato ligands. <i>Synthetic Metals</i> , 2010, 160, 1015-1021.	2.1	4
67	Tuning the Emission Color of Iridium(III) Complexes with Ancillary Ligands: A Combined Experimental and Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2407-2414.	1.0	27
68	Optical and electronic properties of phosphorescent iridium(III) complexes with phenylpyrazole and ancillary ligands. <i>Synthetic Metals</i> , 2009, 159, 113-118.	2.1	30
69	Synthesis, photophysical and electroluminescent properties of donor@acceptor@donor molecules based on <i>trans</i> -cinnamoyl cyclic ketene dithioacetals. <i>Synthetic Metals</i> , 2009, 159, 153-157.	2.1	2
70	Photophysical and charge-transport properties of hole-blocking material-TAZ: A theoretical study. <i>Synthetic Metals</i> , 2009, 159, 1767-1771.	2.1	6
71	A solution@processable poly(<i>p</i> -phenylene vinylene) without alkyl substitution: Introducing the <i>cis</i> -vinylene segments in polymer chain for improved solubility, blue emission, and high efficiency. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5242-5250.	2.5	35
72	The Origin of the Improved Efficiency and Stability of Triphenylamine@Substituted Anthracene Derivatives for OLEDs: A Theoretical Investigation. <i>ChemPhysChem</i> , 2008, 9, 2601-2609.	1.0	93

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73	Theoretical study of 2,5-diphenyl-1,4-distyrylbenzene (A model compound of PPV): A comparison of the electronic structure and photophysical properties of cis- and trans-isomers. <i>Chemical Physics</i> , 2008, 345, 23-31.	0.9	4
74	Theoretical Studies of Blue-Emitting Iridium Complexes with Different Ancillary Ligands. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8387-8393.	1.1	94
75	Role of Tetrakis(triphenylphosphine)palladium(0) in the Degradation and Optical Properties of Fluorene-Based Compounds. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10273-10278.	1.5	16
76	Supramolecular Network Conducting the Formation of Uniaxially Oriented Molecular Crystal of Cyano Substituted Oligo(<i>para</i> -phenylene vinylene) and Its Amplified Spontaneous Emission (ASE) Behavior. <i>Chemistry of Materials</i> , 2008, 20, 7312-7318.	3.2	88
77	Theoretical Characterization of a Typical Hole/Exciton-Blocking Material Bathocuproine and Its Analogues. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9097-9103.	1.1	53
78	Cruciform oligo(phenylenevinylene) with a bipyridine bridge: synthesis, its rhenium(i) complex and photovoltaic properties. <i>Chemical Communications</i> , 2008, , 3912.	2.2	27
79	Tight intermolecular packing through supramolecular interactions in crystals of cyano substituted oligo(<i>para</i> -phenylene vinylene): a key factor for aggregation-induced emission. <i>Chemical Communications</i> , 2007, , 231-233.	2.2	224
80	Thermal Cycloaddition Facilitated by Orthogonal π - π Organization through Conformational Transfer in a Swivel-Cruciform Oligo(phenylenevinylene). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3245-3248.	7.2	18
81	Synthesis and Assembly with Mesoporous Silica MCM-48 of Platinum(II) Porphyrin Complexes Bearing Carbazolyl Groups: π - π Spectroscopic and Oxygen Sensing Properties. <i>Inorganic Chemistry</i> , 2006, 45, 4735-4742.	1.9	62
82	Nature of Zinc(II)-Induced Ionochromic Effect of Bipyridine-Containing Conjugated Polymers: An Electrostatic Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16846-16851.	1.2	11
83	EFFECTS OF PHASE-BREAKING ON LONG-RANGE CHARGE TRANSFER IN DNA: PARTIALLY-COHERENT-TUNNELING MODEL STUDY. <i>Journal of Theoretical and Computational Chemistry</i> , 2006, 05, 317-329.	1.8	1
84	On the Magnetic Alignment of Metal Ions in a DNA-Mimic Double Helix. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15345-15348.	1.2	33
85	Towards M/metalated DNA-based structures. <i>Nanotechnology</i> , 2004, 15, 1256-1263.	1.3	46
86	Interplay between partial incoherence, partial inelasticity, resonance, and heterogeneity in long-range electron transfer and transport. <i>Journal of Chemical Physics</i> , 2002, 117, 2180-2186.	1.2	8
87	TOWARD THE MECHANISM OF LONG-RANGE CHARGE TRANSFER IN DNA: THEORIES AND MODELS. <i>Journal of Theoretical and Computational Chemistry</i> , 2002, 01, 225-244.	1.8	48
88	A partially incoherent rate theory of long-range charge transfer in deoxyribose nucleic acid. <i>Journal of Chemical Physics</i> , 2002, 117, 4578-4584.	1.2	75
89	A Superexchange-Mediated Sequential Hopping Theory for Charge Transfer in DNA. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9563-9567.	1.1	27
90	Exact equivalence between the sequential long-range charge transfer rates and the electric conductances in evaluation of chemical yields. <i>Journal of Chemical Physics</i> , 2001, 114, 8248-8250.	1.2	8

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91	Cooperativity and resonances in periodically driven spin-boson systems. <i>Physical Review E</i> , 2000, 61, 7192-7195.	0.8	15
92	Unified approach to the Bloch-Redfield theory and quantum Fokker-Planck equations. <i>Journal of Chemical Physics</i> , 2000, 113, 2068-2078.	1.2	50
93	Electroluminescence from triplet metal-ligand charge-transfer excited state of transition metal complexes. <i>Synthetic Metals</i> , 1998, 94, 245-248.	2.1	637
94	SOME PROPERTIES OF INTERFACES BETWEEN METALS AND POLYMERS. <i>Surface Review and Letters</i> , 1997, 04, 703-708.	0.5	9
95	Conformational Control of Metallo-Supramolecular Cage via the Dissymmetrical Modulation of Ligands. <i>Angewandte Chemie</i> , 0, , .	1.6	2
96	Multi-Decker Emissive Supramolecular Architectures Based on Shape-Complementary Ligands Pair. <i>Small</i> , 0, , 2202167.	5.2	5