

Tao Tao

List of Publications by Year in descending order

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83
papers

1,705
citations

361413

20
h-index

330143

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83
all docs

83
docs citations

83
times ranked

2280
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering pristine 2D metal-organic framework nanosheets for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8143-8170.	10.3	180
2	Fabrication of a Biomass-Based Hydrous Zirconium Oxide Nanocomposite for Preferable Phosphate Removal and Recovery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20835-20844.	8.0	130
3	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. <i>Nature Chemistry</i> , 2020, 12, 242-248.	13.6	101
4	Azo-hydrazone tautomerism observed from UV-vis spectra by pH control and metal-ion complexation for two heterocyclic disperse yellow dyes. <i>Dalton Transactions</i> , 2012, 41, 11107.	3.3	88
5	Extended Bis(anthraoxa)quinodimethanes with Nine and Ten Consecutively Fused Six-Membered Rings: Neutral Diradicaloids and Charged Diradical Dianions/Dications. <i>Journal of the American Chemical Society</i> , 2019, 141, 62-66.	13.7	75
6	Diazulenoindacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16737-16741.	13.8	69
7	Comparisons between azo dyes and Schiff bases having the same benzothiazole/phenol skeleton: Syntheses, crystal structures and spectroscopic properties. <i>Dyes and Pigments</i> , 2012, 92, 916-922.	3.7	55
8	Asymmetrical/Symmetrical A/D Thiazole-Containing Aromatic Heterocyclic Fluorescent Compounds Having the Same Triphenylamino Chromophores. <i>Journal of Organic Chemistry</i> , 2013, 78, 8669-8679.	3.2	53
9	Size-selective adsorption of methyl orange using a novel nano-composite by encapsulating HKUST-1 in hyper-crosslinked polystyrene networks. <i>Journal of Cleaner Production</i> , 2018, 184, 949-958.	9.3	43
10	C-C bond cleavage in acetonitrile by copper(ii)-bipyridine complexes and in situ formation of cyano-bridged mixed-valent copper complexes. <i>Dalton Transactions</i> , 2013, 42, 3631.	3.3	38
11	Linear Heterocyclic Aromatic Fluorescence Compounds Having Various Donor-Acceptor Spacers Prepared by the Combination of Carbon-Carbon Bond and Carbon-Nitrogen Bond Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2011, 76, 4444-4456.	3.2	36
12	Formation of a Macrocyclic Macrocyclic Superstructure with All-gauche Conformation by Reversible Radical Association. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9023-9027.	13.8	35
13	Coplanar Bithiazole-Centered Heterocyclic Aromatic Fluorescent Compounds Having Different Donor/Acceptor Terminal Groups. <i>Journal of Organic Chemistry</i> , 2013, 78, 2472-2481.	3.2	32
14	Metal-free oxidative cyclization of 2-amino-benzamides, 2-aminobenzenesulfonamide or 2-(aminomethyl)anilines with primary alcohols for the synthesis of quinazolinones and their analogues. <i>Tetrahedron Letters</i> , 2018, 59, 2099-2102.	1.4	31
15	A Schiff base-functionalized graphene quantum dot nanocomposite for preferable picric acid sensing. <i>Dyes and Pigments</i> , 2021, 191, 109355.	3.7	30
16	Structural investigations on four heterocyclic Disperse Red azo dyes having the same benzothiazole/azo/benzene skeleton. <i>Dyes and Pigments</i> , 2011, 90, 65-70.	3.7	28
17	Functionalized oligothiophene-based heterocyclic aromatic fluorescent compounds with various donor-acceptor spacers and adjustable electronic properties: a theoretical and experimental perspective. <i>Tetrahedron</i> , 2013, 69, 7290-7299.	1.9	26
18	Two pairs of nickel(ii) and copper(ii) metal-complex dyes showing the same trans configuration and azo-hydrazone transformation but different thermal properties. <i>Dalton Transactions</i> , 2013, 42, 7679.	3.3	26

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19	Architectural Diversity for Anion-Mediated Self-Assembly of Four Pairs of Silver(I) Polymeric Isomers Having Linear and V-Shaped Imidazole/Thiophene/Imidazole Bridging Spacers. <i>Crystal Growth and Design</i> , 2014, 14, 300-309.	3.0	24
20	Precisely controlling fluorescence enhancement and high-contrast colorimetric assay in OFF-ON fluoride sensing based on a diketopyrrolopyrrole boronate ester. <i>Dyes and Pigments</i> , 2019, 170, 107638.	3.7	22
21	The First Observation of One-Dimensional Naphthalenediimidato-Based Transition-Metal Coordination Polymers: Syntheses, Crystal Structures and Properties. <i>Crystal Growth and Design</i> , 2012, 12, 4580-4587.	3.0	21
22	Environmental-friendly one-step fabrication of tertiary amine-functionalized adsorption resins for removal of benzophenone-4 from water. <i>Journal of Cleaner Production</i> , 2018, 203, 655-663.	9.3	20
23	Crystal structures, solvatochromisms and DFT computations of three disperse azo dyes having the same azobenzene skeleton. <i>Journal of Molecular Structure</i> , 2016, 1123, 305-310.	3.6	19
24	Strontium Chloride-Passivated Perovskite Thin Films for Efficient Solar Cells with Power Conversion Efficiency over 21% and Superior Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3661-3669.	8.0	19
25	From heterocyclic hydrazone to hydrazone-azomethine dyes: Solvent and pH induced hydrazone and azo-keto transformation for a family of pyrazolone-based heterocyclic dyes. <i>Dyes and Pigments</i> , 2017, 137, 101-110.	3.7	18
26	A selective and colorimetric chemosensor for fluoride based on dimeric azulene boronate ester. <i>Inorganic Chemistry Communication</i> , 2018, 95, 17-21.	3.9	18
27	Comparative structural and spectral analyses for mononuclear and dinuclear metal complexes of 2-thiophen and 2-(5-bromothiophen) imidazo[4,5-f][1,10]phenanthroline. <i>CrystEngComm</i> , 2012, 14, 8023.	2.6	16
28	Construction of a Layered Hydrogen-Bonded Organic Framework Showing High-Contrast Mechanoresponsive Luminescence Turn-On. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29488-29497.	3.1	16
29	Study of Complete Oxidation of Formaldehyde Over MnOx-CeO2 Mixed Oxide Catalysts at Ambient Temperature. <i>Catalysis Letters</i> , 2018, 148, 2880-2890.	2.6	16
30	Efficient air-stable perovskite solar cells with a (FAI) _{0.46} (MAI) _{0.40} (MABr) _{0.14} (PbI ₂) _{0.86} (PbBr ₂) _{0.16} active layer fabricated via a vacuum flash-assisted method under RH > 50%. <i>RSC Advances</i> , 2019, 9, 10148-10154.	3.6	16
31	Dipyrido[3,2-a:6',5'-c]phenazine-Based Donor-Acceptor Aromatic Heterocyclic Compounds with Thienyl and Triphenylamino Chromophores at the 2,7-and/or 10,13-Positions. <i>Chemistry - an Asian Journal</i> , 2014, 9, 514-525.	3.3	15
32	Tuning aggregation-induced emission properties with the number of cyano and ester groups in the same dibenzo[b,d]thiophene skeleton for effective detection of explosives. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 303-311.	7.8	15
33	5-Hydroxy-1-phenyl-1H-pyrazole-3-carboxylic acid based heterocyclic dyes. <i>Dyes and Pigments</i> , 2019, 166, 226-232.	3.7	15
34	Linear extension of bithiophene compounds by the combination of C-N covalent bond cross-coupling and N-Ag coordinative bond formation. <i>CrystEngComm</i> , 2011, 13, 747-749.	2.6	14
35	CuO-decorated dual-phase TiO2 microspheres with enhanced activity for photocatalytic CO2 reduction in liquid-solid regime. <i>Chemical Physics Letters</i> , 2019, 725, 66-74.	2.6	14
36	Fabrication of MnOx-CeO2/cordierite catalysts doped with FeOx and CuO for preferable catalytic oxidation of chlorobenzene. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 140-150.	1.4	5

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37	Development of Ag/MnCeOx catalysts synthesized with ethanol or water for HCHO decomposition at ambient temperature. <i>Materials Chemistry and Physics</i> , 2020, 241, 122372.	4.0	14
38	Structure-performance relationship for a family of disperse azo dyes having the same 4-nitro-4'-amino-azobenzene skeleton: Structures, solvatochromism and DFT computations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1001-1009.	3.9	13
39	Formation of a Macrocycles-Macrocycle Superstructure with All-gauche Conformation by Reversible Radical Association. <i>Angewandte Chemie</i> , 2018, 130, 9161-9165.	2.0	13
40	Triphenylethylene-based biimidazoles showing preferable detection of explosives and their rhenium complexes undergoing chiral and cis-trans transformations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3765-3771.	5.5	13
41	A distinguishable photovoltaic performance on dye-sensitized solar cells using ruthenium sensitizers with a pair of isomeric ancillary ligands. <i>Dalton Transactions</i> , 2014, 43, 16601-16604.	3.3	12
42	One-step hydrothermal synthesis of fluorescent silicon nanoparticles for sensing sulfide ions and cell imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 121048.	3.9	12
43	Ruthenium sensitizers with various 2-thiophenimidazo[4,5-f][1,10]phenanthroline based ancillary ligands and their performance for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 117, 100-107.	3.7	11
44	Nanomaterials for fluorescent detection of curcumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120359.	3.9	11
45	Structural and spectral comparisons between isomeric benzisothiazole and benzothiazole based aromatic heterocyclic dyes. <i>Journal of Molecular Structure</i> , 2015, 1095, 42-50.	3.6	10
46	Synthesis and aggregation-induced emission of a pyrene decorated chiral BODIPY chromophore. <i>Inorganic Chemistry Communication</i> , 2015, 62, 67-70.	3.9	10
47	Electric response of a metal-molecule-metal junction to laser pulse by solving hierarchical equations of motion. <i>Journal of Chemical Physics</i> , 2015, 142, 084705.	3.0	10
48	Comparisons on isomeric 1,10-phenanthroline aromatic heterocyclic derivatives with triphenylamine and thiophene donors before and after rhenium(I) carbonyl complexation. <i>Tetrahedron</i> , 2016, 72, 3443-3453.	1.9	10
49	Architectures and DFT calculations of polyrotaxane MOFs with nanoscale macrocycles. <i>Dalton Transactions</i> , 2016, 45, 3334-3339.	3.3	10
50	Temperature-Dependent Current-Voltage and Photoresponsive Properties for Semiconducting Nanodevices Fabricated from an Oligothiazole Dithiol and Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25325-25333.	3.1	9
51	Advantage of the N-Alkylation Strategy for Retaining the Molecular Planarity for Oligothiophene/Imidazole/1,10-Phenanthroline-Based Heterocyclic Semiconducting and Fluorescent Compounds. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3593-3603.	3.3	9
52	Characteristic comparison of heavy metal contamination between road-deposited and roof-deposited sediments in suburban area. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12871-12881.	5.3	9
53	Alteration of molecular conformations and spectral properties for nickel(II), zinc(II) and copper(II) complexes having 3,8-di(thiophen-2-yl)-1,10-phenanthroline ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 1348-1354.	3.6	8
54	Tuning the Spectroscopic, Electrochemical, and Single-Crystal Conductance Properties of a Series of Rhenium-Containing Bithiazoles with Different Donor/Acceptor Hybrids. <i>Organometallics</i> , 2014, 33, 5120-5128.	2.3	8

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55	Substitution effects on the properties of 10,13-disubstituted dipyrido[3,2-a:2â€²,3â€²-c]phenazine donor-acceptor compounds and their ruthenium(II) complexes. <i>Tetrahedron</i> , 2015, 71, 654-662.	1.9	8
56	A fluorescent chemosensor for Zn ²⁺ based on 3,8-bis(4-methoxyphenyl)-1,10-phenanthroline. <i>Inorganic Chemistry Communication</i> , 2015, 58, 99-102.	3.9	8
57	Controlled synthesis of Bi ₂ O ₃ /TiO ₂ catalysts with mixed alcohols for the photocatalytic oxidation of HCHO. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1937-1947.	2.2	8
58	Zinc(ii) and cadmium(ii) coordination polymers mediated by rationally designed symmetrical/asymmetrical V-shaped heterocyclic aromatic ligands exhibiting different supramolecular architectures. <i>CrystEngComm</i> , 2011, 13, 6192.	2.6	7
59	Synthesis, aggregation-induced emission and application as chemosensor for explosives of a 1,10-phenanthroline derivative and its rhenium(I) carbonyl complex having triphenylamino and thienyl donors. <i>Inorganic Chemistry Communication</i> , 2017, 84, 15-19.	3.9	7
60	Supramolecular frameworks composed of copper(II), zinc(II), and ferrous(II) complexes having 3-bromo or 3,8-dibromo-1,10-phenanthroline ligand with different molar ratios of metal and ligand. <i>Structural Chemistry</i> , 2011, 22, 123-133.	2.0	6
61	Improved Activity and Stability of Chlorobenzene Oxidation Over Transition Metal-Substituted Spinel-Type Catalysts Supported on Cordierite. <i>Catalysis Letters</i> , 2021, 151, 2313.	2.6	6
62	Isomeric Pair of <i>E/Z</i> Tetraphenylethene-Cored Luminogens Showing Distinguishing Mechanoresponsive Luminescence Turn-On and Two-Color Behavior. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6491-6498.	3.1	6
63	Sodium alkoxide-mediated g-C ₃ N ₄ immobilized on a composite nanofibrous membrane for preferable photocatalytic activity. <i>RSC Advances</i> , 2022, 12, 15378-15384.	3.6	6
64	Four sodium tetrafluoroborate directed supramolecular networks having 3- and 3,8-disubstituted 1,10-phenanthroline ligands. <i>Inorganica Chimica Acta</i> , 2013, 405, 1-8.	2.4	5
65	Sodium templated formation of a unique tetradecanuclear {Zn ₁₂ ($\frac{1}{4}$ -OH) ₆ Na ₂ ($\frac{1}{4}$ -O)} ₁₈ + hetero-metal cluster core having an auxiliary bithiazole dibenzoate ligand. <i>Inorganic Chemistry Communication</i> , 2013, 31, 62-65.	3.9	5
66	Furan-based diketopyrrolopyrrole chromophores: Tuning the spectroscopic, electrochemical and aggregation-induced fluorescent properties with various intramolecular donor-acceptor spacers. <i>Journal of Molecular Structure</i> , 2017, 1143, 168-175.	3.6	5
67	Differences of Characteristics and Performance with Bi ³⁺ and Bi ₂ O ₃ Doping Over TiO ₂ for Photocatalytic Oxidation Under Visible Light. <i>Catalysis Letters</i> , 2020, 150, 1098-1110.	2.6	5
68	Fabrication of thiophene/dicyanovinyl aggregation-induced fluorescent materials for preferable detection of picric acid. <i>Dyes and Pigments</i> , 2020, 181, 108556.	3.7	5
69	A special case of copper(II) complex having monodentate and uncoordinated 4-aminopyridine molecules stabilized by highly cooperative supramolecular interactions. <i>Inorganica Chimica Acta</i> , 2012, 392, 465-468.	2.4	4
70	Reversible alteration of spectral properties for azulene decorated multiphenyl-ethylenes by simple acid-base and redox processes. <i>Dyes and Pigments</i> , 2019, 164, 346-354.	3.7	4
71	Terminal modulation of asymmetrical <i>Dâ€²</i> Aâ€²Dâ€²â€™ furan-containing diketopyrrolopyrrole chromophores for intramolecular charge transfer properties. <i>Dyes and Pigments</i> , 2020, 177, 108277.	3.7	4
72	Two air oxidation copper(II) complexes of salicylaldehyde derivatives obtained by in situ copper(II) ion catalysis and complexation. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1978-1981.	3.9	3

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73	The first observation of cis and trans isomers for bibenzo[d]imidazole-based compounds influenced by halogen substituent effects. <i>Inorganic Chemistry Communication</i> , 2014, 42, 23-28.	3.9	3
74	Enhanced performance of alkali-modified Bi ₂ WO ₆ /Bi _{0.15} Ti _{0.85} O ₂ toward photocatalytic oxidation of HCHO under visible light. <i>Environmental Science and Pollution Research</i> , 2019, 26, 9672-9685.	5.3	3
75	Fabricating Efficient and Stable Quasi-3D and 3D/2D Perovskite Solar Cells with 2D-Sheets Connected by Inorganic Type Ionic-Bond. <i>Nanotechnology</i> , 2021, 32, .	2.6	3
76	Cyclometalated iridium(III) complexes containing bithiazole ligands for preferable viscosity detection. <i>Dyes and Pigments</i> , 2022, 205, 110512.	3.7	3
77	Variation of cis/trans configuration of 3,8-dithiophen and 3,8-di-3-methylthiophen-substituted 1,10-phenanthroline in their cadmium(II) nitrate complexes originating from substituent and anionic effects. <i>Inorganica Chimica Acta</i> , 2013, 394, 576-582.	2.4	2
78	Iterative online subspace learning for robust image alignment. , 2013, , .		2
79	A family of extended heterocyclic oligomers with thienylene/thiazolylene vinylene cores and triphenylamino/carbazolyl terminals. <i>Tetrahedron</i> , 2015, 71, 3966-3975.	1.9	2
80	Simulations on photovoltaic conversion in perovskite solar cells by solving hierarchical equations of motion. <i>AIP Advances</i> , 2019, 9, .	1.3	2
81	A Flexible Chemosensor Based on Colorimetric and Fluorescent Dual Modes for Rapid and Sensitive Detection of Hypochlorite Anion. <i>Sensors</i> , 2021, 21, 8082.	3.8	2
82	The length effect and color tuning of tetraphenylethylene functionalized oligothiophenes for effective detection of explosives. <i>Dyes and Pigments</i> , 2021, 195, 109673.	3.7	1
83	Application of used cement blocks for the removal of phosphate from aqueous solution under low-temperature conditions. , 0, 154, 219-224.		0