Guo-Hong Tao

List of Publications by Year in Descending Order

78 papers	2,373 citations	27 h-index	47 g-index
87 ext. papers	2,707 ext. citations	6.2 avg, IF	4.91 L-index

#	Paper	IF	Citations
78	Virtual Reality Assisted General Education of Nuclear Chemistry and Radiochemistry. *Journal of Chemical Education*, **2022**, 99, 777-786	2.4	0
77	Hydrogen-bonding and □interaction promoted solution-processable mixed matrix membranes for aromatic amines detection. *Journal of Hazardous Materials*, **2022**, 430, 128490	12.8	1
76	Self-Healable, Malleable, and Flexible Ionic Polyimine as an Environmental Sensor for Portable Exogenous Pollutant Detection **2022**, 4, 136-144		5
75	Energetic material derivatives of insoluble 3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). *Journal of Molecular Structure*, **2022**, 1262, 133099	3.4	
74	Ultralow-cost portable device for cesium detection via perovskite fluorescence. *Journal of Hazardous Materials*, **2021**, 425, 127981	12.8	1
73	Conjugated Polyelectrolyte Combined with Ionic Liquid as the Hole Transport Layer for Efficient Inverted Perovskite Solar Cells. *Journal of the Electrochemical Society*, **2021**, 168, 036503	3.9	0
72	Construction of Flexible Amine-linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler-Clarke Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 12396-12405	16.4	13
71	Interfacial Carrier-Transfer Channel Optimization Based on Hydrogen Bonds for High-Performance Organic Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 3881-3890	6.1	2
70	Construction of Flexible Amine-linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler□larke Reaction. *Angewandte Chemie*, **2021**, 133, 12504-12513	3.6	4
69	Enhanced Solubility and Antitumor Activity of Curcumin via Breaking and Rebuilding of the Hydrogen Bond. *ACS Applied Bio Materials*, **2021**, 4, 918-927	4.1	5
68	High performance task-specific ionic liquid in uranium extraction endowed with negatively charged effect. *Journal of Molecular Liquids*, **2021**, 336, 116601	6	1
67	Materials-Genome Approach to Energetic Materials. *Accounts of Materials Research*, **2021**, 2, 692-696	7.5	9
66	Bio-Based Antimicrobial Ionic Materials Fully Composed of Natural Products for Elevated Air Purification. *Advanced Sustainable Systems*, **2020**, 4, 2000046	5.9	2
65	Super impact stable TATB explosives recrystallized by bicarbonate ionic liquids with a record solubility. *Scientific Reports*, **2020**, 10, 4477	4.9	14
64	Self-Assembled Biomimetic Capsules for Self-Preservation. *Small*, **2020**, 16, e2000930	11	2
63	High-performance particulate matter including nanoscale particle removal by a self-powered air filter. *Nature Communications*, **2020**, 11, 1653	17.4	50
62	Synthesis, structure and properties of water-free pentanitratoyttrate(III) ionic liquids. *Journal of Molecular Structure*, **2020**, 1222, 128953	3.4	2

61	Designing high-performance hypergolic propellants based on materials genome. *Science Advances*, **2020**, 6,	14.3	13
60	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. *Angewandte Chemie - International Edition*, **2020**, 59, 20846-20851	16.4	17
59	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. *Angewandte Chemie*, **2020**, 132, 21032-21037	3.6	4
58	Anomalous Melting Point of Multicharge Ionic Liquids: Structural, Electrostatic, and Orbital Properties of [Ln(NO)] (Ln = Ce, Pr) Anions. *Inorganic Chemistry*, **2020**, 59, 13700-13708	5.1	1
57	Simple and Economical Procedure To Assemble pH Glass Membrane Electrodes Used in Chemical Education. *Journal of Chemical Education*, **2019**, 96, 1773-1777	2.4	
56	Biocompatible Ionic Liquid Based on Curcumin as Fluorescence Probe for Detecting Benzoyl Peroxide without the Interference of HO. *Analytical Chemistry*, **2019**, 91, 6593-6599	7.8	17
55	Is it Always Chemical When Amino Groups Come Across CO? Anion-Anion-Interaction-Induced Inhibition of Chemical Adsorption. *Journal of Physical Chemistry B*, **2019**, 123, 6536-6542	3.4	10
54	Hydrogen-Bonding-Driven Ion-Pair Formation in Protic Ionic Liquid Aqueous Solution. *ChemPhysChem*, **2019**, 20, 3259-3268	3.2	3
53	Self-assembled ionic nanofibers derived from amino acids for high-performance particulate matter removal. *Journal of Materials Chemistry A*, **2019**, 7, 4619-4625	13	28
52	Handy fluorescent paper device based on a curcumin derivative for ultrafast detection of peroxide-based explosives. *Chemical Communications*, **2019**, 55, 13661-13664	5.8	11
51	Particulate Matter Adsorbants: Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter (Adv. Mater. Interfaces 1/2018). *Advanced Materials Interfaces*, **2018**, 5, 1870002	4.6	1
50	Solution prepared O-doped ZnS nanocrystals: Structure characterization, energy level engineering and interfacial application in polymer solar cells. *Solar Energy*, **2018**, 160, 353-359	6.8	6
49	Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter. *Advanced Materials Interfaces*, **2018**, 5, 1700448	4.6	11
48	The influence of ionic radius of interfacial molecule on device performances of polymer solar cells. *Solar Energy*, **2018**, 170, 906-912	6.8	3
47	Viscosity, Conductivity, and Electrochemical Property of Dicyanamide Ionic Liquids. *Frontiers in Chemistry*, **2018**, 6, 59	5	63
46	Theoretical Calculations on the Mechanism of Enantioselective Copper(I)-Catalyzed Addition of Enynes to Ketones. *Catalysts*, **2018**, 8, 359	4	3
45	Fluorescigenic Magnetofluids Based on Gadolinium, Terbium, and Dysprosium-Containing Imidazolium Salts. *Inorganic Chemistry*, **2018**, 57, 6376-6390	5.1	7
44	Insensitive ionic bio-energetic materials derived from amino acids. *Scientific Reports*, **2017**, 7, 12744	4.9	7

43	Highly efficient extraction of actinides with pillar[5]arene-derived diglycolamides in ionic liquids via a unique mechanism involving competitive host-guest interactions. *Dalton Transactions*, **2016**, 45, 19299-19310	4.3	41
42	A Redox-Responsive Complex System Based on 2 D Shape-Persistent Cyclo[6]aramide and Ferrocenium. *Asian Journal of Organic Chemistry*, **2016**, 5, 966-970	3	8
41	Ion-pair recognition of amidinium salts by partially hydrogen-bonded heteroditopic cyclo[6]aramide. *RSC Advances*, **2016**, 6, 39839-39845	3.7	11
40	Tunable luminescence of lanthanide (Ln = Sm, Eu, Tb) hydrophilic ionic polymers based on poly(N-methyl-4-vinylpyridinium-co-styrene) cations. *Polymer Chemistry*, **2016**, 7, 7068-7077	4.9	8
39	Insensitive energetic 5-nitroaminotetrazolate ionic liquids. *RSC Advances*, **2015**, 5, 54527-54534	3.7	5
38	Long-lived luminescent soft materials of hexanitratosamarate(III) complexes with orange visible emission. *Dalton Transactions*, **2015**, 44, 8816-23	4.3	14
37	Br□sted acidity of bio-protic ionic liquids: the acidic scale of [AA]X amino acid ionic liquids. *Green Chemistry*, **2015**, 17, 5154-5163	10	34
36	Structures and Properties of Luminescent Pentanitratoeuropate(III) Ionic Liquids. *European Journal of Inorganic Chemistry*, **2015**, 2015, 542-551	2.3	15
35	Synthesis, structure and near-infrared photoluminescence of hexanitratoneodymate ionic liquids. *Dalton Transactions*, **2015**, 44, 2325-32	4.3	18
34	Aqueous-phase selective hydrogenation of phenol to cyclohexanone over soluble Pd nanoparticles. *Green Chemistry*, **2014**, 16, 2664-2669	10	82
33	Electrochemical and thermodynamic properties of Ln(III) (Ln = Eu, Sm, Dy, Nd) in 1-butyl-3-methylimidazolium bromide ionic liquid. *PLoS ONE*, **2014**, 9, e95832	3.7	13
32	Manipulating surface ligands of copper sulfide nanocrystals: synthesis, characterization, and application to organic solar cells. *Journal of Colloid and Interface Science*, **2014**, 419, 142-7	9.3	39
31	Nitrogen-Rich Energetic Ionic Liquids Based on the N,N-Bis(1H-tetrazol-5-yl)amine Anion □ Syntheses, Structures, and Properties. *European Journal of Inorganic Chemistry*, **2013**, 2013, n/a-n/a	2.3	23
30	Theoretical Enthalpies of Formation of [AA]X and [AAE]X Type Amino Acid Ionic Liquids. *Journal of Chemical & Engineering Data*, **2013**, 58, 1176-1185	2.8	9
29	Impact insensitive dinitromethanide salts. *Chemical Communications*, **2013**, 49, 10329-31	5.8	22
28	High yield of ethyl valerate from the esterification of renewable valeric acid catalyzed by amino acid ionic liquids. *RSC Advances*, **2013**, 3, 4806	3.7	40
27	Water-free rare-earth-metal ionic liquids/ionic liquid crystals based on hexanitratolanthanate(III) anion. *Chemistry - A European Journal*, **2013**, 19, 4452-61	4.8	44
26	Experimental and theoretical enthalpies of formation of glycine-based sulfate/bisulfate amino acid ionic liquids. *Journal of Physical Chemistry B*, **2012**, 116, 113-9	3.4	23

25	Nitrogen-rich 5-(1-methylhydrazinyl)tetrazole and its copper and silver complexes. *Inorganic Chemistry*, **2012**, 51, 5305-12	5.1	64
24	Synthesis, Structure and Property of 5-Aminotetrazolate Room-Temperature Ionic Liquids. *European Journal of Inorganic Chemistry*, **2012**, 2012, 3070-3078	2.3	24
23	Liquid dinitromethanide salts. *Inorganic Chemistry*, **2011**, 50, 679-85	5.1	31
22	Impact of Silyl Enol Ether Stability on Palladium-Catalyzed Arylations. *Organometallics*, **2010**, 29, 1818-1828	3.8	31
21	Energetic 1,5-diamino-4H-tetrazolium nitro-substituted azolates. *Journal of Materials Chemistry*, **2010**, 20, 2999		64
20	Nitrocyanamide-based ionic liquids and their potential applications as hypergolic fuels. *Chemistry - A European Journal*, **2010**, 16, 5736-43	4.8	103
19	Energetic salts based on monoanions of N,N-bis(1H-tetrazol-5-yl)amine and 5,5'-bis(tetrazole). *Chemistry - A European Journal*, **2010**, 16, 3753-62	4.8	108
18	Disubstituted azidotetrazoles as energetic compounds. *Chemistry - A European Journal*, **2009**, 15, 4102-10	4.8	24
17	5-(1,2,3-Triazol-1-yl)tetrazole derivatives of an azidotetrazole via click chemistry. *Chemistry - A European Journal*, **2009**, 15, 9897-904	4.8	33
16	Slightly viscous amino acid ionic liquids: synthesis, properties, and calculations. *Journal of Physical Chemistry B*, **2009**, 113, 15162-9	3.4	35
15	Impact Insensitive Dianionic Dinitrourea Salts: The CN4O52□Anion Paired with Nitrogen-Rich Cations. *Energy & Fuels*, **2009**, 23, 4567-4574	4.1	16
14	Energetic nitrogen-rich Cu(II) and Cd(II) 5,5'-azobis(tetrazolate) complexes. *Inorganic Chemistry*, **2009**, 48, 9918-23	5.1	78
13	A thermally stable nitrogen-rich energetic material□3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). *Journal of Materials Chemistry*, **2009**, 19, 5850		57
12	Energetic nitrogen-rich salts and ionic liquids: 5-aminotetrazole (AT) as a weak acid. *Journal of Materials Chemistry*, **2008**, 18, 5524		102
11	Energetic ionic liquids based on lanthanide nitrate complex anions. *Chemistry - A European Journal*, **2008**, 14, 11167-73	4.8	59
10	Activation of the C-F bond: transformation of CF3N=N- into 5-azidotetrazoles. *Angewandte Chemie - International Edition*, **2008**, 47, 7087-90	16.4	45
9	Activation of the C?F Bond: Transformation of CF3N?N- into 5-Azidotetrazoles. *Angewandte Chemie*, **2008**, 120, 7195-7198	3.6	25
8	Absorption and Capture of Methane into Ionic Liquid. *Journal of Natural Gas Chemistry*, **2006**, 15, 282-286		12

7	Preparation, characterization and application of amino acid-based green ionic liquids. *Green Chemistry*, **2006**, 8, 639	10	287
6	Comparison of Polarities of Room-Temperature Ionic Liquids Using FT-IR Spectroscopic Probes. *Australian Journal of Chemistry*, **2005**, 58, 327	1.2	39
5	New generation ionic liquids: cations derived from amino acids. *Chemical Communications*, **2005**, 3562-4	5.8	285
4	Novel Imidazolium-based Ionic Liquids with a Crown-ether Moiety. *Chemistry Letters*, **2005**, 34, 1184-1185	1.7	16
3	Solubility of C60 in ionic liquids. *Carbon*, **2005**, 43, 1782-1785	10.4	30
2	Alkylation of diphenyl oxide with □dodecene catalyzed by ionic liquids. *Catalysis Today*, **2004**, 93-95, 301-305	5.3	36
1	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. *Advanced Functional Materials*,2108178	15.6	4