

# Guo-Hong Tao

## List of Publications by Citations

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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	Preparation, characterization and application of amino acid-based green ionic liquids. <i>Green Chemistry</i> , <b>2006</b> , 8, 639	10	287
77	New generation ionic liquids: cations derived from amino acids. <i>Chemical Communications</i> , <b>2005</b> , 3562-4	5.8	285
76	Energetic salts based on monoanions of N,N-bis(1H-tetrazol-5-yl)amine and 5,5'-bis(tetrazole). <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3753-62	4.8	108
75	Nitrocyanamide-based ionic liquids and their potential applications as hypergolic fuels. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 5736-43	4.8	103
74	Energetic nitrogen-rich salts and ionic liquids: 5-aminotetrazole (AT) as a weak acid. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5524		102
73	Aqueous-phase selective hydrogenation of phenol to cyclohexanone over soluble Pd nanoparticles. <i>Green Chemistry</i> , <b>2014</b> , 16, 2664-2669	10	82
72	Energetic nitrogen-rich Cu(II) and Cd(II) 5,5'-azobis(tetrazolate) complexes. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 9918-23	5.1	78
71	Nitrogen-rich 5-(1-methylhydrazinyl)tetrazole and its copper and silver complexes. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 5305-12	5.1	64
70	Energetic 1,5-diamino-4H-tetrazolium nitro-substituted azolates. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2999		64
69	Viscosity, Conductivity, and Electrochemical Property of Dicyanamide Ionic Liquids. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 59	5	63
68	Energetic ionic liquids based on lanthanide nitrate complex anions. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 11167-73	4.8	59
67	A thermally stable nitrogen-rich energetic material 3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5850		57
66	High-performance particulate matter including nanoscale particle removal by a self-powered air filter. <i>Nature Communications</i> , <b>2020</b> , 11, 1653	17.4	50
65	Activation of the C-F bond: transformation of CF <sub>3</sub> N=N- into 5-azidotetrazoles. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7087-90	16.4	45
64	Water-free rare-earth-metal ionic liquids/ionic liquid crystals based on hexanitratolanthanate(III) anion. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 4452-61	4.8	44
63	Highly efficient extraction of actinides with pillar[5]arene-derived diglycolamides in ionic liquids via a unique mechanism involving competitive host-guest interactions. <i>Dalton Transactions</i> , <b>2016</b> , 45, 19299-19310	4.3	41
62	High yield of ethyl valerate from the esterification of renewable valeric acid catalyzed by amino acid ionic liquids. <i>RSC Advances</i> , <b>2013</b> , 3, 4806	3.7	40

61	Manipulating surface ligands of copper sulfide nanocrystals: synthesis, characterization, and application to organic solar cells. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 419, 142-7	9.3	39
60	Comparison of Polarities of Room-Temperature Ionic Liquids Using FT-IR Spectroscopic Probes. <i>Australian Journal of Chemistry</i> , <b>2005</b> , 58, 327	1.2	39
59	Alkylation of diphenyl oxide with Dodecene catalyzed by ionic liquids. <i>Catalysis Today</i> , <b>2004</b> , 93-95, 301-305	5.3	36
58	Slightly viscous amino acid ionic liquids: synthesis, properties, and calculations. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15162-9	3.4	35
57	Brønsted acidity of bio-protic ionic liquids: the acidic scale of [AA]X amino acid ionic liquids. <i>Green Chemistry</i> , <b>2015</b> , 17, 5154-5163	10	34
56	5-(1,2,3-Triazol-1-yl)tetrazole derivatives of an azidotetrazole via click chemistry. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 9897-904	4.8	33
55	Liquid dinitromethanide salts. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 679-85	5.1	31
54	Impact of Silyl Enol Ether Stability on Palladium-Catalyzed Arylations. <i>Organometallics</i> , <b>2010</b> , 29, 1818-1823	9.2	31
53	Solubility of C60 in ionic liquids. <i>Carbon</i> , <b>2005</b> , 43, 1782-1785	10.4	30
52	Self-assembled ionic nanofibers derived from amino acids for high-performance particulate matter removal. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4619-4625	13	28
51	Activation of the C-F Bond: Transformation of CF <sub>3</sub> NF <sub>2</sub> into 5-Azidotetrazoles. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7195-7198	3.6	25
50	Synthesis, Structure and Property of 5-Aminotetrazolate Room-Temperature Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 3070-3078	2.3	24
49	Disubstituted azidotetrazoles as energetic compounds. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4102-4108	4.8	24
48	Nitrogen-Rich Energetic Ionic Liquids Based on the N,N-Bis(1H-tetrazol-5-yl)amine Anion $\square$ Syntheses, Structures, and Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, n/a-n/a	2.3	23
47	Experimental and theoretical enthalpies of formation of glycine-based sulfate/bisulfate amino acid ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 113-9	3.4	23
46	Impact insensitive dinitromethanide salts. <i>Chemical Communications</i> , <b>2013</b> , 49, 10329-31	5.8	22
45	Synthesis, structure and near-infrared photoluminescence of hexanitratoneodymate ionic liquids. <i>Dalton Transactions</i> , <b>2015</b> , 44, 2325-32	4.3	18
44	Biocompatible Ionic Liquid Based on Curcumin as Fluorescence Probe for Detecting Benzoyl Peroxide without the Interference of HO $\cdot$ . <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6593-6599	7.8	17

43	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20846-20851	16.4	17
42	Impact Insensitive Dianionic Dinitrourea Salts: The CN <sub>4</sub> O <sub>5</sub> <sup>2-</sup> Anion Paired with Nitrogen-Rich Cations. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 4567-4574	4.1	16
41	Novel Imidazolium-based Ionic Liquids with a Crown-ether Moiety. <i>Chemistry Letters</i> , <b>2005</b> , 34, 1184-1185.	7	16
40	Structures and Properties of Luminescent Pentanitratoeuropate(III) Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 542-551	2.3	15
39	Long-lived luminescent soft materials of hexanitratosamarate(III) complexes with orange visible emission. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8816-23	4.3	14
38	Super impact stable TATB explosives recrystallized by bicarbonate ionic liquids with a record solubility. <i>Scientific Reports</i> , <b>2020</b> , 10, 4477	4.9	14
37	Electrochemical and thermodynamic properties of Ln(III) (Ln = Eu, Sm, Dy, Nd) in 1-butyl-3-methylimidazolium bromide ionic liquid. <i>PLoS ONE</i> , <b>2014</b> , 9, e95832	3.7	13
36	Designing high-performance hypergolic propellants based on materials genome. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	13
35	Construction of Flexible Amine-linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler-Clarke Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12396-12405	16.4	13
34	Absorption and Capture of Methane into Ionic Liquid. <i>Journal of Natural Gas Chemistry</i> , <b>2006</b> , 15, 282-286		12
33	Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1700448	4.6	11
32	Ion-pair recognition of amidinium salts by partially hydrogen-bonded heteroditopic cyclo[6]aramide. <i>RSC Advances</i> , <b>2016</b> , 6, 39839-39845	3.7	11
31	Handy fluorescent paper device based on a curcumin derivative for ultrafast detection of peroxide-based explosives. <i>Chemical Communications</i> , <b>2019</b> , 55, 13661-13664	5.8	11
30	Is it Always Chemical When Amino Groups Come Across CO? Anion-Anion-Interaction-Induced Inhibition of Chemical Adsorption. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 6536-6542	3.4	10
29	Theoretical Enthalpies of Formation of [AA]X and [AAE]X Type Amino Acid Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 1176-1185	2.8	9
28	Materials-Genome Approach to Energetic Materials. <i>Accounts of Materials Research</i> , <b>2021</b> , 2, 692-696	7.5	9
27	A Redox-Responsive Complex System Based on 2 D Shape-Persistent Cyclo[6]aramide and Ferrocenium. <i>Asian Journal of Organic Chemistry</i> , <b>2016</b> , 5, 966-970	3	8
26	Tunable luminescence of lanthanide (Ln = Sm, Eu, Tb) hydrophilic ionic polymers based on poly(N-methyl-4-vinylpyridinium-co-styrene) cations. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 7068-7077	4.9	8

25	Insensitive ionic bio-energetic materials derived from amino acids. <i>Scientific Reports</i> , <b>2017</b> , 7, 12744	4.9	7
24	Fluorescigenic Magnetofluids Based on Gadolinium, Terbium, and Dysprosium-Containing Imidazolium Salts. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6376-6390	5.1	7
23	Solution prepared O-doped ZnS nanocrystals: Structure characterization, energy level engineering and interfacial application in polymer solar cells. <i>Solar Energy</i> , <b>2018</b> , 160, 353-359	6.8	6
22	Insensitive energetic 5-nitroaminotetrazolate ionic liquids. <i>RSC Advances</i> , <b>2015</b> , 5, 54527-54534	3.7	5
21	Enhanced Solubility and Antitumor Activity of Curcumin via Breaking and Rebuilding of the Hydrogen Bond. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 918-927	4.1	5
20	Self-Healable, Malleable, and Flexible Ionic Polyimine as an Environmental Sensor for Portable Exogenous Pollutant Detection <b>2022</b> , 4, 136-144		5
19	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. <i>Advanced Functional Materials</i> , 2108178	15.6	4
18	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21032-21037	3.6	4
17	Construction of Flexible Amine-linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler-Clarke Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12504-12513	3.6	4
16	The influence of ionic radius of interfacial molecule on device performances of polymer solar cells. <i>Solar Energy</i> , <b>2018</b> , 170, 906-912	6.8	3
15	Hydrogen-Bonding-Driven Ion-Pair Formation in Protic Ionic Liquid Aqueous Solution. <i>ChemPhysChem</i> , <b>2019</b> , 20, 3259-3268	3.2	3
14	Theoretical Calculations on the Mechanism of Enantioselective Copper(I)-Catalyzed Addition of Enynes to Ketones. <i>Catalysts</i> , <b>2018</b> , 8, 359	4	3
13	Bio-Based Antimicrobial Ionic Materials Fully Composed of Natural Products for Elevated Air Purification. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000046	5.9	2
12	Self-Assembled Biomimetic Capsules for Self-Preservation. <i>Small</i> , <b>2020</b> , 16, e2000930	11	2
11	Synthesis, structure and properties of water-free pentanitratoyttrate(III) ionic liquids. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1222, 128953	3.4	2
10	Interfacial Carrier-Transfer Channel Optimization Based on Hydrogen Bonds for High-Performance Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3881-3890	6.1	2
9	Particulate Matter Adsorbants: Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter (Adv. Mater. Interfaces 1/2018). <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1870002	4.6	1
8	Ultralow-cost portable device for cesium detection via perovskite fluorescence. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 425, 127981	12.8	1

7	Anomalous Melting Point of Multicharge Ionic Liquids: Structural, Electrostatic, and Orbital Properties of [Ln(NO)] (Ln = Ce, Pr) Anions. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 13700-13708	5.1	1
6	High performance task-specific ionic liquid in uranium extraction endowed with negatively charged effect. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 336, 116601	6	1
5	Hydrogen-bonding and $\pi$ -Interaction promoted solution-processable mixed matrix membranes for aromatic amines detection. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128490	12.8	1
4	Virtual Reality Assisted General Education of Nuclear Chemistry and Radiochemistry. <i>Journal of Chemical Education</i> , <b>2022</b> , 99, 777-786	2.4	0
3	Conjugated Polyelectrolyte Combined with Ionic Liquid as the Hole Transport Layer for Efficient Inverted Perovskite Solar Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 036503	3.9	0
2	Simple and Economical Procedure To Assemble pH Glass Membrane Electrodes Used in Chemical Education. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 1773-1777	2.4	
1	Energetic material derivatives of insoluble 3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). <i>Journal of Molecular Structure</i> , <b>2022</b> , 1262, 133099	3.4	