

# Guo-Hong Tao

## List of Publications by Year in descending order

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85  
papers

3,070  
citations

159358

30  
h-index

168136

53  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2879  
citing authors

#	ARTICLE	IF	CITATIONS
1	New generation ionic liquids: cations derived from amino acids. <i>Chemical Communications</i> , 2005, , 3562.	2.2	311
2	Preparation, characterization and application of amino acid-based green ionic liquids. <i>Green Chemistry</i> , 2006, 8, 639.	4.6	306
3	Nitrocyanamide-Based Ionic Liquids and Their Potential Applications as Hypergolic Fuels. <i>Chemistry - A European Journal</i> , 2010, 16, 5736-5743.	1.7	119
4	Energetic Salts Based on Monoanions of <i>N,N</i> -Bis(1 <i>H</i> -tetrazol-5-yl)amine and 5,5'-bis(tetrazole). <i>Chemistry - A European Journal</i> , 2010, 16, 3753-3762.	1.7	112
5	Energetic nitrogen-rich salts and ionic liquids: 5-aminotetrazole (AT) as a weak acid. <i>Journal of Materials Chemistry</i> , 2008, 18, 5524.	6.7	110
6	High-performance particulate matter including nanoscale particle removal by a self-powered air filter. <i>Nature Communications</i> , 2020, 11, 1653.	5.8	108
7	Viscosity, Conductivity, and Electrochemical Property of Dicyanamide Ionic Liquids. <i>Frontiers in Chemistry</i> , 2018, 6, 59.	1.8	104
8	Aqueous-phase selective hydrogenation of phenol to cyclohexanone over soluble Pd nanoparticles. <i>Green Chemistry</i> , 2014, 16, 2664-2669.	4.6	95
9	Energetic Nitrogen-Rich Cu(II) and Cd(II) 5,5'-Azobis(tetrazolate) Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 9918-9923.	1.9	78
10	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> , 2021, 60, 12396-12405.	7.2	77
11	Nitrogen-Rich 5-(1-Methylhydrazinyl)tetrazole and its Copper and Silver Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 5305-5312.	1.9	76
12	A thermally stable nitrogen-rich energetic material—3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). <i>Journal of Materials Chemistry</i> , 2009, 19, 5850.	6.7	70
13	Energetic 1,5-diamino-4H-tetrazolium nitro-substituted azolates. <i>Journal of Materials Chemistry</i> , 2010, 20, 2999.	6.7	70
14	Energetic Ionic Liquids based on Lanthanide Nitrate Complex Anions. <i>Chemistry - A European Journal</i> , 2008, 14, 11167-11173.	1.7	68
15	Water-Free Rare-Earth-Metal Ionic Liquids/Ionic Liquid Crystals Based on Hexanitratolanthanate(III) Anion. <i>Chemistry - A European Journal</i> , 2013, 19, 4452-4461.	1.7	53
16	High yield of ethyl valerate from the esterification of renewable valeric acid catalyzed by amino acid ionic liquids. <i>RSC Advances</i> , 2013, 3, 4806.	1.7	49
17	Brønsted acidity of bio-protic ionic liquids: the acidic scale of [AA]X amino acid ionic liquids. <i>Green Chemistry</i> , 2015, 17, 5154-5163.	4.6	49
18	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> , 2016, 45, 19299-19310.	1.6	49

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19	Activation of the C-F Bond: Transformation of CF <sub>3</sub> into Azidotetrazoles. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7087-7090.	7.2	46
20	Manipulating surface ligands of Copper Sulfide nanocrystals: Synthesis, characterization, and application to organic solar cells. <i>Journal of Colloid and Interface Science</i> , 2014, 419, 142-147.	5.0	44
21	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20846-20851.	7.2	44
22	Comparison of Polarities of Room-Temperature Ionic Liquids Using FT-IR Spectroscopic Probes. <i>Australian Journal of Chemistry</i> , 2005, 58, 327.	0.5	43
23	Designing high-performance hypergolic propellants based on materials genome. <i>Science Advances</i> , 2020, 6, .	4.7	43
24	Self-assembled ionic nanofibers derived from amino acids for high-performance particulate matter removal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4619-4625.	5.2	40
25	Alkylation of diphenyl oxide with 1-dodecene catalyzed by ionic liquids. <i>Catalysis Today</i> , 2004, 93-95, 301-305.	2.2	38
26	Slightly Viscous Amino Acid Ionic Liquids: Synthesis, Properties, and Calculations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15162-15169.	1.2	38
27	1,2,3-Triazol-4-yltetrazole Derivatives of an Azidotetrazole via Click Chemistry. <i>Chemistry - A European Journal</i> , 2009, 15, 9897-9904.	1.7	36
28	Impact of Silyl Enol Ether Stability on Palladium-Catalyzed Arylations. <i>Organometallics</i> , 2010, 29, 1818-1823.	1.1	35
29	Liquid Dinitromethanide Salts. <i>Inorganic Chemistry</i> , 2011, 50, 679-685.	1.9	34
30	Biocompatible Ionic Liquid Based on Curcumin as Fluorescence Probe for Detecting Benzoyl Peroxide without the Interference of H <sub>2</sub> O <sub>2</sub> . <i>Analytical Chemistry</i> , 2019, 91, 6593-6599.	3.2	33
31	Solubility of C <sub>60</sub> in ionic liquids. <i>Carbon</i> , 2005, 43, 1782-1785.	5.4	30
32	Self-Healable, Malleable, and Flexible Ionic Polyimine as an Environmental Sensor for Portable Exogenous Pollutant Detection. , 2022, 4, 136-144.		30
33	Disubstituted Azidotetrazoles as Energetic Compounds. <i>Chemistry - A European Journal</i> , 2009, 15, 4102-4110.	1.7	29
34	Experimental and Theoretical Enthalpies of Formation of Glycine-Based Sulfate/Bisulfate Amino Acid Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 113-119.	1.2	29
35	Synthesis, Structure and Property of Aminotetrazolate Room-Temperature Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3070-3078.	1.0	27
36	Handy fluorescent paper device based on a curcumin derivative for ultrafast detection of peroxide-based explosives. <i>Chemical Communications</i> , 2019, 55, 13661-13664.	2.2	27

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37	Impact insensitive dinitromethanide salts. <i>Chemical Communications</i> , 2013, 49, 10329.	2.2	26
38	Nitrogen-Rich Energetic Ionic Liquids Based on the $\text{N}^+\text{N}^-\text{Bis}(1\text{-H-tetrazol-5-yl})\text{amine}$ Anion Syntheses, Structures, and Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5009-5019.	1.0	25
39	Super impact stable TATB explosives recrystallized by bicarbonate ionic liquids with a record solubility. <i>Scientific Reports</i> , 2020, 10, 4477.	1.6	23
40	Materials-Genome Approach to Energetic Materials. <i>Accounts of Materials Research</i> , 2021, 2, 692-696.	5.9	22
41	Synthesis, structure and near-infrared photoluminescence of hexanitratoneodymate ionic liquids. <i>Dalton Transactions</i> , 2015, 44, 2325-2332.	1.6	21
42	Novel Imidazolium-based Ionic Liquids with a Crown-ether Moiety. <i>Chemistry Letters</i> , 2005, 34, 1184-1185.	0.7	20
43	Impact Insensitive Dianionic Dinitrourea Salts: The $\text{CN}_4\text{O}_5^{2-}$ Anion Paired with Nitrogen-Rich Cations. <i>Energy &amp; Fuels</i> , 2009, 23, 4567-4574.	2.5	18
44	Long-lived luminescent soft materials of hexanitratosamarate( $\text{Scp}^{\text{iii}}$ ) complexes with orange visible emission. <i>Dalton Transactions</i> , 2015, 44, 8816-8823.	1.6	18
45	Structures and Properties of Luminescent Pentanitratoeuropate(III) Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 542-551.	1.0	17
46	Is it Always Chemical When Amino Groups Come Across $\text{CO}_2$ ? Anion-Anion-Interaction-Induced Inhibition of Chemical Adsorption. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6536-6542.	1.2	17
47	Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700448.	1.9	16
48	Enhanced Solubility and Antitumor Activity of Curcumin via Breaking and Rebuilding of the Hydrogen Bond. <i>ACS Applied Bio Materials</i> , 2021, 4, 918-927.	2.3	16
49	Absorption and Capture of Methane into Ionic Liquid. <i>Journal of Natural Gas Chemistry</i> , 2006, 15, 282-286.	1.8	14
50	Electrochemical and Thermodynamic Properties of Ln(III) ( $\text{Ln} = \text{Eu, Sm, Dy, Nd}$ ) in 1-Butyl-3-Methylimidazolium Bromide Ionic Liquid. <i>PLoS ONE</i> , 2014, 9, e95832.	1.1	14
51	Construction of Flexible Amine-Linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler-Clarke Reaction. <i>Angewandte Chemie</i> , 2021, 133, 12504-12513.	1.6	14
52	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. <i>Advanced Functional Materials</i> , 2022, 32, 2108178.	7.8	14
53	Ultralow-cost portable device for cesium detection via perovskite fluorescence. <i>Journal of Hazardous Materials</i> , 2022, 425, 127981.	6.5	14
54	A Redox-Responsive Complex System Based on 2D Shape-Persistent Cyclo[6]aramide and Ferrocenium. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 966-970.	1.3	13

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55	Fluorescigenic Magnetofluids Based on Gadolinium, Terbium, and Dysprosium-Containing Imidazolium Salts. <i>Inorganic Chemistry</i> , 2018, 57, 6376-6390.	1.9	13
56	Ion-pair recognition of amidinium salts by partially hydrogen-bonded heteroditopic cyclo[6]aramide. <i>RSC Advances</i> , 2016, 6, 39839-39845.	1.7	12
57	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> , 2016, 7, 7068-7077.	1.9	12
58	Theoretical Enthalpies of Formation of [AA]X and [AAE]X Type Amino Acid Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 1176-1185.	1.0	11
59	Bio-Based Antimicrobial Ionic Materials Fully Composed of Natural Products for Elevated Air Purification. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000046.	2.7	10
60	Self-charge-carrying air filter by in situ polymerization to avoid charge dissipation and potential material poisoning. <i>Chemical Engineering Journal</i> , 2022, 449, 137788.	6.6	10
61	Self-Assembled Biomimetic Capsules for Self-Preservation. <i>Small</i> , 2020, 16, e2000930.	5.2	9
62	Theoretical Calculations on the Mechanism of Enantioselective Copper(I)-Catalyzed Addition of Enynes to Ketones. <i>Catalysts</i> , 2018, 8, 359.	1.6	8
63	Hydrogen-bonding and $\pi$ - $\pi$ interaction promoted solution-processable mixed matrix membranes for aromatic amines detection. <i>Journal of Hazardous Materials</i> , 2022, 430, 128490.	6.5	8
64	Insensitive ionic bio-energetic materials derived from amino acids. <i>Scientific Reports</i> , 2017, 7, 12744.	1.6	7
65	Hydrogen-Bonding-Driven Ion-Pair Formation in Protic Ionic Liquid Aqueous Solution. <i>ChemPhysChem</i> , 2019, 20, 3259-3268.	1.0	7
66	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie</i> , 2020, 132, 21032-21037.	1.6	7
67	Anomalous Melting Point of Multicharge Ionic Liquids: Structural, Electrostatic, and Orbital Properties of $[\text{Ln}(\text{NO}_3)_6]^{3+}$ (Ln = Ce, Pr) Anions. <i>Inorganic Chemistry</i> , 2020, 59, 13700-13708.	1.9	7
68	High performance task-specific ionic liquid in uranium extraction endowed with negatively charged effect. <i>Journal of Molecular Liquids</i> , 2021, 336, 116601.	2.3	7
69	Insensitive energetic 5-nitroaminotetrazolate ionic liquids. <i>RSC Advances</i> , 2015, 5, 54527-54534.	1.7	6
70	Solution prepared O-doped ZnS nanocrystals: Structure characterization, energy level engineering and interfacial application in polymer solar cells. <i>Solar Energy</i> , 2018, 160, 353-359.	2.9	6
71	Virtual Reality Assisted General Education of Nuclear Chemistry and Radiochemistry. <i>Journal of Chemical Education</i> , 2022, 99, 777-786.	1.1	6
72	Interfacial Carrier-Transfer Channel Optimization Based on Hydrogen Bonds for High-Performance Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 3881-3890.	2.5	5

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73	Ultrasound-Responsive Ionic Liquid for Selective Phase Transition Extraction of Zr(IV) Ions. ACS Sustainable Chemistry and Engineering, 2022, 10, 9053-9065.	3.2	5
74	The influence of ionic radius of interfacial molecule on device performances of polymer solar cells. Solar Energy, 2018, 170, 906-912.	2.9	4
75	Synthesis, structure and properties of water-free pentanitratoyttrate(III) ionic liquids. Journal of Molecular Structure, 2020, 1222, 128953.	1.8	4
76	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.	1.3	2
77	Energetic material derivatives of insoluble 3,4,5-triamino-1-tetrazolyl-1,2,4-triazole (TATT). Journal of Molecular Structure, 2022, 1262, 133099.	1.8	2
78	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.	1.9	1
79	Aminotriazolate ionic liquids: Synthesis, characterization and application as a probe for the detection of H <sub>2</sub> O <sub>2</sub> . Journal of Molecular Structure, 2022, 1266, 133511.	1.8	1
80	Novel Imidazolium-Based Ionic Liquids with a Crown-Ether Moiety.. ChemInform, 2006, 37, no.	0.1	0
81	Simple and Economical Procedure To Assemble pH Glass Membrane Electrodes Used in Chemical Education. Journal of Chemical Education, 2019, 96, 1773-1777.	1.1	0
82	Frontispiece: 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, .	7.2	0
83	Frontispiz: Construction of Flexible Amine-Linked Covalent Organic Frameworks by Catalysis and Reduction of Formic Acid via the Eschweiler-Clarke Reaction. Angewandte Chemie, 2021, 133, .	1.6	0
84	Encapsulation of Nitrate Ester Nanoparticles Into the SBA-15 Channels: Preparation, Characterizations and Reaction Mechanism. Advanced Porous Materials, 2014, 2, 22-30.	0.3	0
85	The Proton Dissociation of Bio-Protic Ionic Liquids: [AAE]X Amino Acid Ionic Liquids. Molecules, 2021, 26, 62.	1.7	0