

Xiao-Song Xue

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102
papers

2,984
citations

31
h-index

51
g-index

122
ext. papers

3,778
ext. citations

9.7
avg, IF

5.84
L-index

#	Paper	IF	Citations
102	Near-Infrared Afterglow Luminescent Aggregation-Induced Emission Dots with Ultrahigh Tumor-to-Liver Signal Ratio for Promoted Image-Guided Cancer Surgery. <i>Nano Letters</i> , 2019 , 19, 318-330	11.5	295
101	The Essential Role of Bond Energetics in C-H Activation/Functionalization. <i>Chemical Reviews</i> , 2017 , 117, 8622-8648	68.1	247
100	Phosphoric Acid Catalyzed Asymmetric 1,6-Conjugate Addition of Thioacetic Acid to para-Quinone Methides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1460-4	16.4	166
99	N-Trifluoromethylthio-dibenzenesulfonimide: A Shelf-Stable, Broadly Applicable Electrophilic Trifluoromethylthiolating Reagent. <i>Journal of Organic Chemistry</i> , 2016 , 81, 7486-7509	4.2	134
98	Metal-free directed sp ³ -C-H borylation. <i>Nature</i> , 2019 , 575, 336-340	50.4	93
97	Theoretical study on the acidities of chiral phosphoric acids in dimethyl sulfoxide: hints for organocatalysis. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7076-85	4.2	80
96	Quantitative Scale for the Trifluoromethylthio Cation-Donating Ability of Electrophilic Trifluoromethylthiolating Reagents. <i>Organic Letters</i> , 2016 , 18, 264-7	6.2	67
95	Controllable catalytic difluorocarbene transfer enables access to diversified fluoroalkylated arenes. <i>Nature Chemistry</i> , 2019 , 11, 948-956	17.6	66
94	Enantioselective organocatalyzed sulfenylation of 3-substituted oxindoles. <i>Organic Letters</i> , 2012 , 14, 4374-7	6.2	65
93	Selective Tuning of the HOMO-LUMO Gap of Carbazole-Based Donor-Acceptor-Donor Compounds toward Different Emission Colors. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 1681-1687	3.2	64
92	Mechanism and Origins of Chemo- and Stereoselectivities of Aryl Iodide-Catalyzed Asymmetric Difluorinations of <i>p</i> -Substituted Styrenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15206-15218	16.4	61
91	Computational study on the acidic constants of chiral Brønsted acids in dimethyl sulfoxide. <i>Journal of Organic Chemistry</i> , 2014 , 79, 4340-51	4.2	60
90	Mechanism and selectivity of bioinspired cinchona alkaloid derivatives catalyzed asymmetric olefin isomerization: a computational study. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7462-73	16.4	56
89	Asymmetric Michael addition reactions of 3-substituted benzofuran-2(3H)-ones to nitroolefins catalyzed by a bifunctional tertiary-amine thiourea. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 413-20	3.9	53
88	Mechanism of Silver-Mediated Geminal Difluorination of Styrenes with a Fluoroiodane Reagent: Insights into Lewis-Acid-Activation Model. <i>Organic Letters</i> , 2016 , 18, 6128-6131	6.2	49
87	A computational reinvestigation of the formation of N-alkylpyrroles via intermolecular redox amination. <i>Organic Letters</i> , 2011 , 13, 6054-7	6.2	46
86	Sulfimine-Promoted Fast O Transfer: One-Step Synthesis of Sulfoximine from Sulfide. <i>ChemistrySelect</i> , 2017 , 2, 1620-1624	1.8	44

85	Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8195-8202	16.4	43
84	Nickel-catalyzed intermolecular oxidative Heck arylation driven by transfer hydrogenation. <i>Nature Communications</i> , 2019 , 10, 5025	17.4	42
83	Synthesis of optically enriched spirocyclic benzofuran-2-ones by bifunctional thiourea-base catalyzed double-Michael addition of benzofuran-2-ones to dienones. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 997-1003	4.5	42
82	Mechanism and Origin of the Unexpected Chemoselectivity in Fluorocyclization of o-Styryl Benzamides with a Hypervalent Fluoroiodane Reagent. <i>Journal of Organic Chemistry</i> , 2016 , 81, 9006-9014	4.2	39
81	Expanding the Frontiers of Higher-Order Cycloadditions. <i>Accounts of Chemical Research</i> , 2019 , 52, 3488-3501	11.9	39
80	Phosphoric Acid Catalyzed Asymmetric 1,6-Conjugate Addition of Thioacetic Acid to para-Quinone Methides. <i>Angewandte Chemie</i> , 2016 , 128, 1482-1486	3.6	38
79	An Energetic Guide for Estimating Trifluoromethyl Cation Donor Abilities of Electrophilic Trifluoromethylating Reagents: Computations of X-CF ₃ Bond Heterolytic Dissociation Enthalpies. <i>Journal of Organic Chemistry</i> , 2016 , 81, 3119-26	4.2	38
78	Rhodium-Catalyzed 2-Arylphenol-Derived Six-Membered Silacyclization: Straightforward Access toward Dibenzooxasilines and Silicon-Containing Planar Chiral Metallocenes. <i>ACS Catalysis</i> , 2018 , 8, 7997-8005	13.1	37
77	Asymmetric Michael Addition Reactions between 3-Substituted Benzofuran-2(3H)-ones and 1,1-Bis(phenylsulfonyl)ethylene Catalyzed by Bifunctional Catalysts Containing Tertiary Amine and Thiourea Groups. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 1774-1782	3.2	36
76	Comprehensive Energetic Scale for Quantitatively Estimating the Fluorinating Potential of N-F Reagents in Electrophilic Fluorinations. <i>Journal of Organic Chemistry</i> , 2016 , 81, 4280-9	4.2	35
75	Establishing Cation and Radical Donor Ability Scales of Electrophilic F, CF, and SCF Transfer Reagents. <i>Accounts of Chemical Research</i> , 2020 , 53, 182-197	24.3	34
74	Mild Ring-Opening 1,3-Hydroborations of Non-Activated Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16861-16865	16.4	34
73	Recent Advances and Advisable Applications of Bond Energetics in Organic Chemistry. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8611-8623	16.4	32
72	Open-Shell Fluorination of Alkyl Bromides: Unexpected Selectivity in a Silyl Radical-Mediated Chain Process. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20031-20036	16.4	32
71	Mechanism and Origins of Enantioselectivities in Spirobiindane-Based Hypervalent Iodine(III)-Induced Asymmetric Dearomatizing Spirolactonizations. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16046-16056	16.4	31
70	A Systematic Evaluation of the N-F Bond Strength of Electrophilic N-F Reagents: Hints for Atomic Fluorine Donating Ability. <i>Journal of Organic Chemistry</i> , 2017 , 82, 4129-4135	4.2	30
69	Mechanism and Origins of Stereinduction in Natural Cinchona Alkaloid Catalyzed Asymmetric Electrophilic Trifluoromethylthiolation of β -Keto Esters with N-Trifluoromethylthiophthalimide as Electrophilic SCF ₃ Source. <i>ACS Catalysis</i> , 2017 , 7, 7977-7986	13.1	29
68	Chiral Spiro Phosphoric Acid-Catalyzed Friedel-Crafts Conjugate Addition/Enantioselective Protonation Reactions. <i>ACS Catalysis</i> , 2019 , 9, 6522-6529	13.1	29

- 67 Exploration of the Synthetic Potential of Electrophilic Trifluoromethylthiolating and Difluoromethylthiolating Reagents. *Angewandte Chemie - International Edition*, **2018**, 57, 12690-12695 16.4 29
- 66 Ordering the relative power of electrophilic fluorinating, trifluoromethylating, and trifluoromethylthiolating reagents: A summary of recent efforts. *Tetrahedron Letters*, **2018**, 59, 1278-1285 28
- 65 Ambimodal Trispericyclic Transition State and Dynamic Control of Periselectivity. *Journal of the American Chemical Society*, **2019**, 141, 1217-1221 16.4 28
- 64 Carbon-Selective Difluoromethylation of Soft Carbon Nucleophiles with Difluoromethylated Sulfonium Ylide. *Chinese Journal of Chemistry*, **2018**, 36, 1069-1074 4.9 28
- 63 Computational study on the pKa shifts in proline induced by hydrogen-bond-donating cocatalysts. *Journal of Organic Chemistry*, **2014**, 79, 1166-73 4.2 26
- 62 Origin of Stereoselectivity of the Photoinduced Asymmetric Phase-Transfer-Catalyzed Perfluoroalkylation of α -Ketoesters. *Journal of Organic Chemistry*, **2017**, 82, 9321-9327 4.2 26
- 61 Theoretical study of Lewis acid activation models for hypervalent fluoroiodane reagent: The generality of π -coordination activation model. *Tetrahedron Letters*, **2017**, 58, 1287-1291 2 25
- 60 Catalytic Enantioselective Cyclopropanation of Internal Alkynes: Access to Difluoromethylated Three-Membered Carbocycles. *Angewandte Chemie - International Edition*, **2019**, 58, 18191-18196 16.4 25
- 59 Acidity Scale of N-Heterocyclic Carbene Precursors: Can We Predict the Stability of NHC-CO Adducts?. *Organic Letters*, **2018**, 20, 6041-6045 6.2 24
- 58 Establishing the Trifluoromethylthio Radical Donating Abilities of Electrophilic SCF-Transfer Reagents. *Journal of Organic Chemistry*, **2017**, 82, 8697-8702 4.2 23
- 57 A Highly Efficient Chirality Switchable Synthesis of Dihydropyran-Fused Benzofurans by Fine-Tuning the Phenolic Proton of β -Socupreidine (β -CD) Catalyst with Methyl. *Chemistry - A European Journal*, **2015**, 21, 10443-9 4.8 21
- 56 A Systematic Assessment of Trifluoromethyl Radical Donor Abilities of Electrophilic Trifluoromethylating Reagents. *Asian Journal of Organic Chemistry*, **2017**, 6, 235-240 3 19
- 55 Mechanisms and Dynamics of Reactions Involving Entropic Intermediates. *Trends in Chemistry*, **2019**, 1, 22-34 14.8 18
- 54 Toward Prediction of the Chemistry in Ionic Liquids: An Accurate Computation of Absolute pK(a) Values of Benzoic Acids and Benzenethiols. *Journal of Organic Chemistry*, **2015**, 80, 8997-9006 4.2 18
- 53 Highly β -Selective Arylation and Carbonylative Arylation of 3-Bromo-3,3-difluoropropene via Nickel Catalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 12386-12391 16.4 17
- 52 Chemodivergent and Stereoselective Construction of β -Difluoroallylic Amines from Masked Difluorodiazole Reagents. *Organic Letters*, **2019**, 21, 8244-8249 6.2 15
- 51 Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. *Angewandte Chemie*, **2020**, 132, 8272-8279 15
- 50 N-tert-Butyl Sulfinyl Squaramide Receptors for Anion Recognition through Assisted tert-Butyl C-H Hydrogen Bonding. *Journal of Organic Chemistry*, **2017**, 82, 8662-8667 4.2 15

49	Comprehensive Basicity Scales for N-Heterocyclic Carbenes in DMSO: Implications on the Stabilities of N-Heterocyclic Carbene and CO Adducts. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 169-181	4.5	15
48	Radical C-H Arylation of Oxazoles with Aryl Iodides: dppf as an Electron-Transfer Mediator for CsCO. <i>Organic Letters</i> , 2018 , 20, 1684-1687	6.2	14
47	A Systematic Theoretical Study on the Acidities for Cations of Ionic Liquids in Dimethyl Sulfoxide. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 5750-5755	2.8	14
46	Visible-Light-Driven Neutral Nitrogen Radical Mediated Intermolecular Styrene Difunctionalization. <i>Organic Letters</i> , 2019 , 21, 3861-3865	6.2	13
45	Radical-mediated C-C cleavage of unstrained cycloketones and DFT study for unusual regioselectivity. <i>Nature Communications</i> , 2020 , 11, 672	17.4	13
44	Design and Applications of N-tert-Butyl Sulfinyl Squaramide Catalysts. <i>Organic Letters</i> , 2017 , 19, 1926-1929	12	12
43	Computational I(III) BDEs for Benziodoxol(on)e-based Hypervalent Iodine Reagents: Implications for Their Functional Group Transfer Abilities. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 359-363	4.9	12
42	Hypervalent-Iodine-Mediated Formation of Epoxides from Carbon(sp)-Carbon(sp) Single Bonds. <i>Journal of Organic Chemistry</i> , 2017 , 82, 11691-11702	4.2	10
41	Transition-Metal-Free -Trifluoromethylthiolation of Lithium Aryl Boronates. <i>Organic Letters</i> , 2019 , 21, 6347-6351	6.2	10
40	Cleaving arene rings for acyclic alkenylnitrile synthesis. <i>Nature</i> , 2021 , 597, 64-69	50.4	10
39	High Site Selectivity in Electrophilic Aromatic Substitutions: Mechanism of C-H Thianthrenation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16041-16054	16.4	10
38	Organic radicals based on phenalenyl and verdazyl units. <i>Tetrahedron Letters</i> , 2011 , 52, 3670-3673	2	9
37	Internal Alkyne-Directed Fluorination of Unactivated C(sp)-H Bonds. <i>Organic Letters</i> , 2020 , 22, 9398-9403	6.2	9
36	Exploration of the Synthetic Potential of Electrophilic Trifluoromethylthiolating and Difluoromethylthiolating Reagents. <i>Angewandte Chemie</i> , 2018 , 130, 12872-12877	3.6	8
35	Computational Exploration of the Mechanism of Critical Steps in the Biomimetic Synthesis of Preisolactone A, and Discovery of New Ambimodal (5 + 2)/(4 + 2) Cycloadditions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6601-6608	16.4	8
34	Potassium Acetate-Catalyzed Double Decarboxylative Transannulation To Access Highly Functionalized Pyrroles. <i>Organic Letters</i> , 2020 , 22, 9585-9590	6.2	7
33	Catalytic Direct Construction of Cyano-tetrazoles. <i>Organic Letters</i> , 2020 , 22, 7762-7767	6.2	7
32	Cooperative Stapling of Native Peptides at Lysine and Tyrosine or Arginine with Formaldehyde. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6646-6652	16.4	7

31	A ring expansion strategy towards diverse azaheterocycles. <i>Nature Chemistry</i> , 2021 , 13, 1006-1016	17.6	7
30	Origin of Stereocontrol in Photoredox Organocatalysis of Asymmetric β -Functionalizations of Aldehydes. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3333-3338	4.2	6
29	The effects of insertion of nitrogen atoms on the aromatic nitrogen-containing compounds: a potential approach for designing stable radical molecular materials. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 92-100	2.1	6
28	The Brønsted Basicities of N-Heterocyclic Olefins in DMSO: An Effective Way to Evaluate the Stability of NHO-CO Adducts. <i>Journal of Organic Chemistry</i> , 2020 , 85, 13204-13210	4.2	6
27	The Acidities of Nucleophilic Monofluoromethylation Reagents: An Anomalous β -Fluorine Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9401-9406	16.4	6
26	Ligand-Dependent Regiodivergent Enantioselective Allylic Alkylations of β -Trifluoromethylated Ketones. <i>Organic Letters</i> , 2021 , 23, 2443-2448	6.2	6
25	[8+2] vs [4+2] Cycloadditions of Cyclohexadienamines to Tropone and Heptafulvenes-Mechanisms and Selectivities. <i>Journal of the American Chemical Society</i> , 2021 , 143, 934-944	16.4	6
24	Factors Controlling Reactivity in the Hydrogen Atom Transfer and Radical Addition Steps of a Radical Relay Cascade. <i>Organic Letters</i> , 2019 , 21, 5894-5897	6.2	5
23	Computation of standard equilibrium acidity of C β H acids in ionic media: shedding light on predicting changes of chemical behavior by switching solvent system from molecular to ionic. <i>Organic Chemistry Frontiers</i> , 2014 , 1, 176	5.2	5
22	Computational Study of the Trifluoromethyl Radical Donor Abilities of CF ₃ Sources. <i>Acta Chimica Sinica</i> , 2018 , 76, 988	3.3	5
21	Quantification of the Activation Capabilities of Lewis/Brønsted Acid for Electrophilic Trifluoromethylthiolating Reagents. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 130-134	4.9	5
20	Solvent-controlled photocatalytic divergent cyclization of alkynyl aldehydes: access to cyclopentenones and dihydropyranols. <i>Chemical Science</i> , 2021 , 12, 11420-11426	9.4	5
19	Violations. How Nature Circumvents the Woodward-Hoffmann Rules and Promotes the Forbidden Conrotatory 4 + 2 Electron Electrocyclization of Prinzbach's Vinylogous Sesquifulvalene.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21694-21704	16.4	5
18	Recent Computational Studies on Mechanisms of Hypervalent Iodine(III)-Promoted Dearomatization of Phenols. <i>Current Organic Chemistry</i> , 2020 , 24, 2106-2117	1.7	4
17	Highly selective synthesis of all-carbon tetrasubstituted alkenes by deoxygenative alkenylation of carboxylic acids.. <i>Nature Communications</i> , 2022 , 13, 10	17.4	3
16	Origins of Selectivities in the Stork Diels-Alder Cycloaddition for the Synthesis of (β)-4-Methylenegermine. <i>Organic Letters</i> , 2018 , 20, 6108-6111	6.2	3
15	Mechanism and Selectivity of N-Heterocyclic Carbene-Catalyzed Desymmetrizing [4+1] and [4+2] Annulations. <i>Chinese Journal of Organic Chemistry</i> , 2021 , 41, 2530	3	3
14	2,6-Azulene-based Homopolymers: Design, Synthesis, and Application in Proton Exchange Membrane Fuel Cells.. <i>ACS Macro Letters</i> , 2022 , 11, 680-686	6.6	3

13	Theoretical study of the peripheral disulfide bridge substituent effects on the antioxidant properties of naphthyridine diol derivatives. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1008-16	2.8	2
12	2,5,8-Tri-tert-butyl-1,3,4,6,7,9-hexaazaphenalene: Synthesis, Crystal Structure and Calculation of Homolytic N-H Bond Dissociation Enthalpies. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2008 , 63, 1425-1430	1	2
11	Biomimetic Total Synthesis of (±)-Carbocyclinone-534 Reveals Its Biosynthetic Pathway. <i>Organic Letters</i> , 2020 , 22, 9421-9426	6.2	2
10	The Acidities of Nucleophilic Monofluoromethylation Reagents: An Anomalous α -Fluorine Effect. <i>Angewandte Chemie</i> , 2021 , 133, 9487-9492	3.6	2
9	Chiral Lewis Base Catalyzed Enantioselective Selenocyclization of 1,1-Disubstituted Alkenes: Asymmetric Synthesis of Selenium-Containing 4H-3,1-Benzoxazines. <i>Organic Letters</i> ,	6.2	2
8	The rearrangement of 2-(1,6-methano[10]annulenyl)-3,3-dimethylmethylenecyclopropane: A computational study. <i>Computational and Theoretical Chemistry</i> , 2010 , 950, 1-4		1
7	Efficient synthesis of isoindolones by intramolecular cyclisation of pyridinylbenzoic acids. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 8025-8029	3.9	0
6	Ambimodal Transition States in Diels-Alder Cycloadditions of Tropolone and Tropolonate with N-Methylmaleimide**. <i>Angewandte Chemie</i> , 2021 , 133, 25195	3.6	0
5	Ambimodal Transition States in Diels-Alder Cycloadditions of Tropolone and Tropolonate with N-Methylmaleimide*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24991-24996	16.4	0
4	Computations on Pericyclic Reactions Reveal the Richness of Ambimodal Transition States and Pericyclases. <i>Israel Journal of Chemistry</i> ,	3.4	0
3	Azetidine synthesis enabled by photo-induced copper catalysis via [3+1] radical cascade cyclization.. <i>Innovation(China)</i> , 2022 , 3, 100244	17.8	0
2	Mechanistic Study on the Bidentate Nitrogen-Ligated Iodine(V) Reagent Promoted Oxidative Dearomatization of Phenols. <i>Acta Chimica Sinica</i> , 2021 , 79, 1394	3.3	
1	DFT Modeling of Catalytic Fluorination Reactions: Mechanisms, Reactivities, and Selectivities 2021 , 307-362		