

Xiao-Song Xue

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Highly selective synthesis of all-carbon tetrasubstituted alkenes by deoxygenative alkenylation of carboxylic acids.. <i>Nature Communications</i> , 2022 , 13, 10	17.4	3
101	Azetidine synthesis enabled by photo-induced copper catalysis via [3+1] radical cascade cyclization.. <i>Innovation(China)</i> , 2022 , 3, 100244	17.8	0
100	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
99	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	
98	The Acidities of Nucleophilic Monofluoromethylation Reagents: An Anomalous β -Fluorine Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9401-9406	16.4	6
97	Ligand-Dependent Regiodivergent Enantioselective Allylic Alkylations of β -Trifluoromethylated Ketones. <i>Organic Letters</i> , 2021 , 23, 2443-2448	6.2	6
96	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
95	Highly β -Selective Arylation and Carbonylative Arylation of 3-Bromo-3,3-difluoropropene via Nickel Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12386-12391	16.4	17
94	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
93	Efficient synthesis of isoindolones by intramolecular cyclisation of pyridinylbenzoic acids. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 8025-8029	3.9	0
92	Solvent-controlled photocatalytic divergent cyclization of alkynyl aldehydes: access to cyclopentenones and dihydropyranols. <i>Chemical Science</i> , 2021 , 12, 11420-11426	9.4	5
91	The Acidities of Nucleophilic Monofluoromethylation Reagents: An Anomalous β -Fluorine Effect. <i>Angewandte Chemie</i> , 2021 , 133, 9487-9492	3.6	2
90	Cleaving arene rings for acyclic alkenylnitrile synthesis. <i>Nature</i> , 2021 , 597, 64-69	50.4	10
89	A ring expansion strategy towards diverse azaheterocycles. <i>Nature Chemistry</i> , 2021 , 13, 1006-1016	17.6	7
88	Ambimodal Transition States in Diels-Alder Cycloadditions of Tropolone and Tropolonate with N-Methylmaleimide**. <i>Angewandte Chemie</i> , 2021 , 133, 25195	3.6	0
87	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
86	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

85	[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
84	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
83	DFT Modeling of Catalytic Fluorination Reactions: Mechanisms, Reactivities, and Selectivities 2021 , 307-362		
82	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
81	Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. <i>Angewandte Chemie</i> , 2020 , 132, 8272-8279	9	15
80	Radical-mediated C-C cleavage of unstrained cycloketones and DFT study for unusual regioselectivity. <i>Nature Communications</i> , 2020 , 11, 672	17.4	13
79	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
78	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
77	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
76	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
75	Biomimetic Total Synthesis of (⊕)-Carbocyclinone-534 Reveals Its Biosynthetic Pathway. <i>Organic Letters</i> , 2020 , 22, 9421-9426	6.2	2
74	Internal Alkyne-Directed Fluorination of Unactivated C(sp)-H Bonds. <i>Organic Letters</i> , 2020 , 22, 9398-9403	6.2	9
73	Potassium Acetate-Catalyzed Double Decarboxylative Transannulation To Access Highly Functionalized Pyrroles. <i>Organic Letters</i> , 2020 , 22, 9585-9590	6.2	7
72	Catalytic Direct Construction of Cyano-tetrazoles. <i>Organic Letters</i> , 2020 , 22, 7762-7767	6.2	7
71	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
70	Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8195-8202	16.4	43
69	Catalytic Enantioselective Cyclopropanation of Internal Alkynes: Access to Difluoromethylated Three-Membered Carbocycles. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18191-18196	16.4	25
68	Chemodivergent and Stereoselective Construction of -Difluoroallylic Amines from Masked Difluorodiazole Reagents. <i>Organic Letters</i> , 2019 , 21, 8244-8249	6.2	15

67	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
66	Chiral Spiro Phosphoric Acid-Catalyzed Friedel-Crafts Conjugate Addition/Enantioselective Protonation Reactions. <i>ACS Catalysis</i> , 2019 , 9, 6522-6529	13.1	29
65	Visible-Light-Driven Neutral Nitrogen Radical Mediated Intermolecular Styrene Difunctionalization. <i>Organic Letters</i> , 2019 , 21, 3861-3865	6.2	13
64	Mechanisms and Dynamics of Reactions Involving Entropic Intermediates. <i>Trends in Chemistry</i> , 2019 , 1, 22-34	14.8	18
63	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
62	Transition-Metal-Free -Trifluoromethylthiolation of Lithium Aryl Boronates. <i>Organic Letters</i> , 2019 , 21, 6347-6351	6.2	10
61	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
60	Nickel-catalyzed intermolecular oxidative Heck arylation driven by transfer hydrogenation. <i>Nature Communications</i> , 2019 , 10, 5025	17.4	42
59	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
58	Expanding the Frontiers of Higher-Order Cycloadditions. <i>Accounts of Chemical Research</i> , 2019 , 52, 3488-3501	15.1	39
57	Controllable catalytic difluorocarbene transfer enables access to diversified fluoroalkylated arenes. <i>Nature Chemistry</i> , 2019 , 11, 948-956	17.6	66
56	Metal-free directed sp ² -C-H borylation. <i>Nature</i> , 2019 , 575, 336-340	50.4	93
55	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
54	Ambimodal Trispericyclic Transition State and Dynamic Control of Periselectivity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1217-1221	16.4	28
53	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
52	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
51	Ordering the relative power of electrophilic fluorinating, trifluoromethylating, and trifluoromethylthiolating reagents: A summary of recent efforts. <i>Tetrahedron Letters</i> , 2018 , 59, 1278-1285	2.5	28
50	Exploration of the Synthetic Potential of Electrophilic Trifluoromethylthiolating and Difluoromethylthiolating Reagents. <i>Angewandte Chemie</i> , 2018 , 130, 12872-12877	3.6	8

49	Exploration of the Synthetic Potential of Electrophilic Trifluoromethylthiolating and Difluoromethylthiolating Reagents. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12690-12695	16.4	29
48	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
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	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
45	Computational Study of the Trifluoromethyl Radical Donor Abilities of CF ₃ Sources. <i>Acta Chimica Sinica</i> , 2018 , 76, 988	3.3	5
44	Origins of Selectivities in the Stork Diels-Alder Cycloaddition for the Synthesis of (E)-4-Methylenegermine. <i>Organic Letters</i> , 2018 , 20, 6108-6111	6.2	3
43	Mechanism and Origins of Chemo- and Stereoselectivities of Aryl Iodide-Catalyzed Asymmetric Difluorinations of β -Substituted Styrenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15206-15218	16.4	61
42	Mild Ring-Opening 1,3-Hydroborations of Non-Activated Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16861-16865	16.4	34
41	Carbon-Selective Difluoromethylation of Soft Carbon Nucleophiles with Difluoromethylated Sulfonium Ylide. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 1069-1074	4.9	28
40	Acidity Scale of N-Heterocyclic Carbene Precursors: Can We Predict the Stability of NHC-CO Adducts?. <i>Organic Letters</i> , 2018 , 20, 6041-6045	6.2	24
39	Theoretical study of Lewis acid activation models for hypervalent fluoroiodane reagent: The generality of π -coordination activation model. <i>Tetrahedron Letters</i> , 2017 , 58, 1287-1291	2	25
38	The Essential Role of Bond Energetics in C-H Activation/Functionalization. <i>Chemical Reviews</i> , 2017 , 117, 8622-8648	68.1	247
37	Sulimine-Promoted Fast O Transfer: One-Step Synthesis of Sulfoximine from Sulfide. <i>ChemistrySelect</i> , 2017 , 2, 1620-1624	1.8	44
36	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
35	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
34	Design and Applications of N-tert-Butyl Sulfinyl Squaramide Catalysts. <i>Organic Letters</i> , 2017 , 19, 1926-1929	2.9	12
33	A Systematic Assessment of Trifluoromethyl Radical Donor Abilities of Electrophilic Trifluoromethylating Reagents. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 235-240	3	19
32	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

31	Origin of Stereoselectivity of the Photoinduced Asymmetric Phase-Transfer-Catalyzed Perfluoroalkylation of β -Ketoesters. <i>Journal of Organic Chemistry</i> , 2017 , 82, 9321-9327	4.2	26
30	Establishing the Trifluoromethylthio Radical Donating Abilities of Electrophilic SCF-Transfer Reagents. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8697-8702	4.2	23
29	N-tert-Butyl Sulfinyl Squaramide Receptors for Anion Recognition through Assisted tert-Butyl C-H Hydrogen Bonding. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8662-8667	4.2	15
28	N-Trifluoromethylthio-dibenzenesulfonimide: A Shelf-Stable, Broadly Applicable Electrophilic Trifluoromethylthiolating Reagent. <i>Journal of Organic Chemistry</i> , 2016 , 81, 7486-7509	4.2	134
27	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
26	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
25	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
24	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
23	Quantitative Scale for the Trifluoromethylthio Cation-Donating Ability of Electrophilic Trifluoromethylthiolating Reagents. <i>Organic Letters</i> , 2016 , 18, 264-7	6.2	67
22	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
21	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 ²	4.2	39
20	Toward Prediction of the Chemistry in Ionic Liquids: An Accurate Computation of Absolute pK(a) Values of Benzoic Acids and Benzenethiols. <i>Journal of Organic Chemistry</i> , 2015 , 80, 8997-9006	4.2	18
19	A Highly Efficient Chirality Switchable Synthesis of Dihydropyran-Fused Benzofurans by Fine-Tuning the Phenolic Proton of β -socypridine (β CD) Catalyst with Methyl. <i>Chemistry - A European Journal</i> , 2015 , 21, 10443-9	4.8	21
18	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
17	Computation of standard equilibrium acidity of C-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
16	Computational study on the pK _a shifts in proline induced by hydrogen-bond-donating cocatalysts. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1166-73	4.2	26
15	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
14	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

13	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
12	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
11	Enantioselective organocatalyzed sulfenylation of 3-substituted oxindoles. <i>Organic Letters</i> , 2012 , 14, 4374-7	6.2	65
10	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
9	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
8	A computational reinvestigation of the formation of N-alkylpyrroles via intermolecular redox amination. <i>Organic Letters</i> , 2011 , 13, 6054-7	6.2	46
7	Organic radicals based on phenalenyl and verdazyl units. <i>Tetrahedron Letters</i> , 2011 , 52, 3670-3673	2	9
6	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
5	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
4	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
3	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
2	Computations on Pericyclic Reactions Reveal the Richness of Ambimodal Transition States and Pericyclases. <i>Israel Journal of Chemistry</i> ,	3.4	0
1	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