

Suzanne A Blum

List of Publications by Citations

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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.

63
papers

2,181
citations

25
h-index

45
g-index

68
ext. papers

2,425
ext. citations

9.4
avg. IF

5.52
L-index

#	Paper	IF	Citations
63	Catalyzed catalysis using carbophilic Lewis acidic gold and Lewis basic palladium: synthesis of substituted butenolides and isocoumarins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18022-3	16.4	206
62	Organogold reactivity with palladium, nickel, and rhodium: transmetalation, cross-coupling, and dual catalysis. <i>Accounts of Chemical Research</i> , 2011 , 44, 603-13	24.3	175
61	Palladium-Catalyzed Carboauration of Alkynes and Palladium/Gold Cross-Coupling. <i>Organometallics</i> , 2009 , 28, 1275-1277	3.8	129
60	Opportunities and challenges in single-molecule and single-particle fluorescence microscopy for mechanistic studies of chemical reactions. <i>Nature Chemistry</i> , 2013 , 5, 993-9	17.6	117
59	Enantioselective oxidation of di-tert-butyl disulfide with a vanadium catalyst: progress toward mechanism elucidation. <i>Journal of Organic Chemistry</i> , 2003 , 68, 150-5	4.2	94
58	Catalyst-Free Synthesis of Borylated Lactones from Esters via Electrophilic Oxyboration. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2126-9	16.4	87
57	Alkoxyboration: ring-closing addition of B-O π bonds across alkynes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4740-5	16.4	87
56	Relative Kinetic Basicities of Organogold Compounds. <i>Organometallics</i> , 2010 , 29, 1712-1716	3.8	84
55	Aminoboration: Addition of B-N π bonds across C-C π bonds. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10144-7	16.4	77
54	Mechanistic Studies of Azaphilic versus Carbophilic Activation by Gold(I) in the Gold/Palladium Dual-Catalyzed Rearrangement of Alkenyl Vinyl Aziridines. <i>Organometallics</i> , 2012 , 31, 6843-6850	3.8	63
53	Role of LiCl in Generating Soluble Organozinc Reagents. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11156-9	16.4	55
52	Catalyst-Free Formal Thioboration to Synthesize Borylated Benzothiophenes and Dihydrothiophenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14286-14290	16.4	54
51	Oxyboration with and without a Catalyst: Borylated Isoxazoles via B-O π Bond Addition. <i>Organic Letters</i> , 2016 , 18, 480-3	6.2	48
50	Boron-Heteroatom Addition Reactions via Borylative Heterocyclization: Oxyboration, Aminoboration, and Thioboration. <i>Accounts of Chemical Research</i> , 2017 , 50, 2598-2609	24.3	46
49	Homogeneous vs heterogeneous polymerization catalysis revealed by single-particle fluorescence microscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18145-7	16.4	46
48	Mechanistic Studies of Gold and Palladium Cooperative Dual-Catalytic Cross-Coupling Systems. <i>ACS Catalysis</i> , 2014 , 4, 622-629	13.1	44
47	Selectivity, Compatibility, Downstream Functionalization, and Silver Effect in the Gold and Palladium Dual-Catalytic Synthesis of Lactones. <i>Organometallics</i> , 2014 , 33, 5448-5456	3.8	42

46	Gold and Rhodium Transmetalation: Mechanistic Insights and Dual-Metal Reactivity. <i>Organometallics</i> , 2011 , 30, 1776-1779	3.8	42
45	Nickel-Catalyzed Cross-Coupling of Organogold Reagents. <i>Organometallics</i> , 2011 , 30, 1299-1302	3.8	40
44	Single-molecule imaging of platinum ligand exchange reaction reveals reactivity distribution. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15167-9	16.4	38
43	Phase separation polymerization of dicyclopentadiene characterized by in operando fluorescence microscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12324-8	16.4	34
42	Toward the Single-Molecule Investigation of Organometallic Reaction Mechanisms: Single-Molecule Imaging of Fluorophore-Tagged Palladium(II) Complexes. <i>Organometallics</i> , 2008 , 27, 2172-2175	3.8	33
41	Epoxide-opening and group-transfer reactions mediated by monomeric zirconium imido complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14276-7	16.4	32
40	Single Turnover at Molecular Polymerization Catalysts Reveals Spatiotemporally Resolved Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13772-13775	16.4	26
39	Real-Time Imaging of Platinum-Sulfur Ligand Exchange Reactions at the Single-Molecule Level via a General Chemical Technique. <i>Organometallics</i> , 2011 , 30, 2901-2907	3.8	26
38	Direct Observation of Gold/Palladium Transmetalation in an Organogold Heck Reaction. <i>Organometallics</i> , 2011 , 30, 4811-4813	3.8	25
37	Catalyst Inefficiencies: Supported Ring-Opening Metathesis Polymerization Catalyst Yields Its Ensemble Rate from a Small Number of Molecular Active Sites. <i>ACS Catalysis</i> , 2015 , 5, 2290-2295	13.1	23
36	Mechanistic Studies of Formal Thioboration Reactions of Alkynes. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8165-8178	4.2	22
35	Synthetic and Mechanistic Studies of Strained Heterocycle Opening Reactions Mediated by Zirconium(IV) Imido Complexes. <i>Organometallics</i> , 2005 , 24, 1647-1659	3.8	22
34	Evidence for Dynamic Chemical Kinetics at Individual Molecular Ruthenium Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1572-1575	16.4	21
33	A General Fluorescence Resonance Energy Transfer (FRET) Method for Observation and Quantification of Organometallic Complexes under Reaction Conditions. <i>Organometallics</i> , 2009 , 28, 4643-4645 ²⁰	3.8	20
32	Nitro and Nitroso Metathesis Reactions with Monomeric Zirconium Imido Complexes. <i>Organometallics</i> , 2004 , 23, 4003-4005	3.8	20
31	Synthesis of Alkenylgold(I) Compounds via Sequential Hydrozirconation and Zirconium to Gold Transmetalation. <i>Organometallics</i> , 2012 , 31, 5990-5993	3.8	19
30	Deconvoluting subensemble chemical reaction kinetics of platinum-sulfur ligand exchange detected with single-molecule fluorescence microscopy. <i>Inorganic Chemistry</i> , 2011 , 50, 9201-3	5.1	19
29	Structure-Reactivity Studies, Characterization, and Transformation of Intermediates by Lithium Chloride in the Direct Insertion of Alkyl and Aryl Iodides to Metallic Zinc Powder. <i>Organometallics</i> , 2017 , 36, 2389-2396	3.8	18

28	Copper-Catalyzed Aminoboration from Hydrazones To Generate Borylated Pyrazoles. <i>Organic Letters</i> , 2019 , 21, 1283-1286	6.2	18
27	Application of physical organic methods to the investigation of organometallic reaction mechanisms. <i>Journal of Organic Chemistry</i> , 2003 , 68, 4127-37	4.2	18
26	Organic and Organometallic Chemistry at the Single-Molecule, -Particle, and -Molecular-Catalyst-Turnover Level by Fluorescence Microscopy. <i>Accounts of Chemical Research</i> , 2019 , 52, 2244-2255	24.3	17
25	Kinetics of the Same Reaction Monitored over Nine Orders of Magnitude in Concentration: When Are Unique Subensemble and Single-Turnover Reactivity Displayed?. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12027-12032	16.4	16
24	NMR spectroscopy studies of electronic effects and equilibrium in the organogold-to-boron transmetalation reaction and studies towards its application to the alkoxyboration addition of boron-oxygen bonds to alkynes. <i>Tetrahedron</i> , 2015 , 71, 4445-4449	2.4	15
23	Transition-Metal-Free Synthesis of Borylated Thiophenes via Formal Thioboration. <i>Organic Letters</i> , 2018 , 20, 6673-6677	6.2	15
22	An Oxyboration Route to a Single Regioisomer of Borylated Dihydrofurans and Isochromenes. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11204-11217	4.2	14
21	BODIPY Fluorophore Toolkit for Probing Chemical Reactivity and for Tagging Reactive Functional Groups. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 3347-3354	3.2	14
20	Microscopy Reveals: Impact of Lithium Salts on Elementary Steps Predicts Organozinc Reagent Synthesis and Structure. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9879-9884	16.4	13
19	Kinetic Study of Carbophilic Lewis Acid Catalyzed Oxyboration and the Noninnocent Role of Sodium Chloride. <i>Organometallics</i> , 2016 , 35, 655-662	3.8	12
18	Catalyst-Free Formal Thioboration to Synthesize Borylated Benzothiophenes and Dihydrothiophenes. <i>Angewandte Chemie</i> , 2016 , 128, 14498-14502	3.6	11
17	Small Number of Active Sites and Single-Locus Kinetics Revealed in (salph)Co-Catalyzed Ethylene Oxide Polymerization. <i>ACS Catalysis</i> , 2013 , 3, 2150-2153	13.1	10
16	Single-Polymer Particle Growth Kinetics with Molecular Catalyst Speciation and Single-Turnover Imaging. <i>ACS Catalysis</i> , 2019 , 9, 3375-3383	13.1	9
15	Borylative Heterocyclization without Air-Free Techniques. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10350-10368	4.1	9
14	Structure-Reactivity Studies of Intermediates for Mechanistic Information by Subensemble Fluorescence Microscopy. <i>ACS Catalysis</i> , 2017 , 7, 3786-3791	13.1	8
13	Evidence for Dynamic Chemical Kinetics at Individual Molecular Ruthenium Catalysts. <i>Angewandte Chemie</i> , 2018 , 130, 1588-1591	3.6	8
12	Single Turnover at Molecular Polymerization Catalysts Reveals Spatiotemporally Resolved Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 13960-13963	3.6	8
11	Oxyboration: Synthesis of Borylated Benzofurans. <i>Organic Syntheses</i> , 2016 , 93, 228-244	1.2	6

10	Does Selectivity of Molecular Catalysts Change with Time? Polymerization Imaged by Single-Molecule Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1550-1555	16.4	5
9	Origins of Batch-to-Batch Variation: Organoindium Reagents from Indium Metal. <i>Organometallics</i> , 2020 , 39, 2575-2579	3.8	3
8	Kinetics of the Same Reaction Monitored over Nine Orders of Magnitude in Concentration: When Are Unique Subensemble and Single-Turnover Reactivity Displayed?. <i>Angewandte Chemie</i> , 2018 , 130, 12203-12208	3.6	3
7	Oxyboration: Synthesis of Borylated Benzofurans 228-244		2
6	Mechanism of an Elusive Solvent Effect in Organozinc Reagent Synthesis. <i>Chemistry - A European Journal</i> , 2020 , 26, 15094-15098	4.8	1
5	GOLD-CATALYZED CROSS-COUPLING REACTIONS. <i>Catalytic Science Series</i> , 2014 , 393-412	0.4	1
4	Does Selectivity of Molecular Catalysts Change with Time? Polymerization Imaged by Single-Molecule Spectroscopy. <i>Angewandte Chemie</i> , 2021 , 133, 1574-1579	3.6	1
3	Main-group metalated heterocycles through Lewis acid cyclization. <i>Trends in Chemistry</i> , 2021 , 3, 645-659	14.8	1
2	Repurposing π Electrophilic Cyclization/Dealkylation for Group Transfer. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25776-25780	16.4	0
1	Repurposing π Electrophilic Cyclization/Dealkylation for Group Transfer. <i>Angewandte Chemie</i> ,	3.6	