# Suzanne A Blum

List of Publications by Year
in descending order



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|---|---|---|---|
| 66 papers | 2,633 citations | 201674 27 h-index | 189892 50 g-index |
| 68 all docs | 68 docs citations | 68 times ranked | 1955 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Exploring chemistry with single-molecule and -particle fluorescence microscopy. Trends in Chemistry, 2022, 4, 5-14. | 8.5 | 12 |
| 2 | Single-Micelle and Single-Zinc-Particle Imaging Provides Insights into the Physical Processes Underpinning Organozinc Reactions in Water. Journal of the American Chemical Society, 2022, 144, 3285-3296. | 13.7 | 14 |
| 3 | Superresolved Motions of Single Molecular Catalysts during Polymerization Show Wide Distributions. Journal of the American Chemical Society, 2022, 144, 10591-10598. | 13.7 | 5 |
| 4 | Reactivity Differences of Rieke Zinc Arise Primarily from Salts in the Supernatant, Not in the Solids. Journal of the American Chemical Society, 2022, 144, 12081-12091. | 13.7 | 8 |
| 5 | Does Selectivity of Molecular Catalysts Change with Time? Polymerizationâ€‰Imaged by Singleâ€Molecule Spectroscopy. Angewandte Chemie, 2021, 133, 1574-1579. | 2.0 | 1 |
| 6 | Does Selectivity of Molecular Catalysts Change with Time? Polymerizationâ€‰Imaged by Singleâ€Molecule Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 1550-1555. | 13.8 | 15 |
| 7 | Main-group metalated heterocycles through Lewis acid cyclization. Trends in Chemistry, 2021, 3, 645-659. | 8.5 | 3 |
| 8 | Repurposing Ï€ Electrophilic Cyclization/Dealkylation for Group Transfer. Angewandte Chemie - International Edition, 2021, 60, 25776-25780. | 13.8 | 4 |
| 9 | Origins of Batch-to-Batch Variation: Organoindium Reagents from Indium Metal. Organometallics, 2020, 39, 2575-2579. | 2.3 | 9 |
| 10 | Borylative Heterocyclization without Air-Free Techniques. Journal of Organic Chemistry, 2020, 85, 10350-10368. | 3.2 | 16 |
| 11 | Mechanism of an Elusive Solvent Effect in Organozinc Reagent Synthesis. Chemistry - A European Journal, 2020, 26, 15094-15098. | 3.3 | 9 |
| 12 | Organic and Organometallic Chemistry at the Single-Molecule, -Particle, and -Molecular-Catalyst-Turnover Level by Fluorescence Microscopy. Accounts of Chemical Research, 2019, 52, 2244-2255. | 15.6 | 31 |
| 13 | Microscopy Reveals: Impact of Lithium Salts on Elementary Steps Predicts Organozinc Reagent Synthesis and Structure. Journal of the American Chemical Society, 2019, 141, 9879-9884. | 13.7 | 21 |
| 14 | Single-Polymerâ€“Particle Growth Kinetics with Molecular Catalyst Speciation and Single-Turnover Imaging. ACS Catalysis, 2019, 9, 3375-3383. | 11.2 | 14 |
| 15 | Copper-Catalyzed Aminoboration from Hydrazones To Generate Borylated Pyrazoles. Organic Letters, 2019, 21, 1283-1286. | 4.6 | 29 |
| 16 | Evidence for Dynamic Chemical Kinetics at Individual Molecular Ruthenium Catalysts. Angewandte Chemie, 2018, 130, 1588-1591. | 2.0 | 9 |
| 17 | Evidence for Dynamic Chemical Kinetics at Individual Molecular Ruthenium Catalysts. Angewandte Chemie - International Edition, 2018, 57, 1572-1575. | 13.8 | 32 |
| 18 | Kinetics of the Same Reaction Monitored over Nine Orders of Magnitude in Concentration: When Are Unique Subensemble and Singleâ€Turnover Reactivity Displayed?. Angewandte Chemie, 2018, 130, 12203-12208. | 2.0 | 3 |

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|---|---|---|---|
| 19 | Transition-Metal-Free Synthesis of Borylated Thiophenes via Formal Thioboration. Organic Letters, 2018, 20, 6673-6677. | 4.6 | 21 |
| 20 | Kinetics of the Same Reaction Monitored over Nine Orders of Magnitude in Concentration: When Are Unique Subensemble and Singleâ€Turnover Reactivity Displayed?. Angewandte Chemie - International Edition, 2018, 57, 12027-12032. | 13.8 | 22 |
| 21 | An Oxyboration Route to a Single Regioisomer of Borylated Dihydrofurans and Isochromenes. Journal of Organic Chemistry, 2018, 83, 11204-11217. | 3.2 | 20 |
| 22 | Structureâ€“Reactivity Studies, Characterization, and Transformation of Intermediates by Lithium Chloride in the Direct Insertion of Alkyl and Aryl Iodides to Metallic Zinc Powder. Organometallics, 2017, 36, 2389-2396. | 2.3 | 27 |
| 23 | Structureâ€“Reactivity Studies of Intermediates for Mechanistic Information by Subensemble Fluorescence Microscopy. ACS Catalysis, 2017, 7, 3786-3791. | 11.2 | 9 |
| 24 | Single Turnover at Molecular Polymerization Catalysts Reveals Spatiotemporally Resolved Reactions. Angewandte Chemie - International Edition, 2017, 56, 13772-13775. | 13.8 | 40 |
| 25 | Single Turnover at Molecular Polymerization Catalysts Reveals Spatiotemporally Resolved Reactions. Angewandte Chemie, 2017, 129, 13960-13963. | 2.0 | 9 |
| 26 | Boronâ€“Heteroatom Addition Reactions via Borylative Heterocyclization: Oxyboration, Aminoboration, and Thioboration. Accounts of Chemical Research, 2017, 50, 2598-2609. | 15.6 | 65 |
| 27 | Mechanistic Studies of Formal Thioboration Reactions of Alkynes. Journal of Organic Chemistry, 2017, 82, 8165-8178. | 3.2 | 24 |
| 28 | Catalystâ€Free Formal Thioboration to Synthesize Borylated Benzothiophenes and Dihydrothiophenes. Angewandte Chemie - International Edition, 2016, 55, 14286-14290. | 13.8 | 68 |
| 29 | Role of LiCl in Generating Soluble Organozinc Reagents. Journal of the American Chemical Society, 2016, 138, 11156-11159. | 13.7 | 79 |
| 30 | Catalystâ€Free Formal Thioboration to Synthesize Borylated Benzothiophenes and Dihydrothiophenes. Angewandte Chemie, 2016, 128, 14498-14502. | 2.0 | 14 |
| 31 | Oxyboration with and without a Catalyst: Borylated Isoxazoles via Bâ€“O Ïƒ-Bond Addition. Organic Letters, 2016, 18, 480-483. | 4.6 | 58 |
| 32 | Kinetic Study of Carbophilic Lewis Acid Catalyzed Oxyboration and the Noninnocent Role of Sodium Chloride. Organometallics, 2016, 35, 655-662. | 2.3 | 14 |
| 33 | Catalyst-Free Synthesis of Borylated Lactones from Esters via Electrophilic Oxyboration. Journal of the American Chemical Society, 2016, 138, 2126-2129. | 13.7 | 111 |
| 34 | Oxyboration: Synthesis of Borylated Benzofurans. Organic Syntheses, 2016, 93, 228-244. | 1.0 | 8 |
| 35 | 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 boronâ€“oxygen Ïƒ bonds to alkynes. Tetrahedron, 2015, 71, 4445-4449. | 1.9 | 16 |
| 36 | Catalyst Inefficiencies: Supported Ring-Opening Metathesis Polymerization Catalyst Yields Its Ensemble Rate from a Small Number of Molecular Active Sites. ACS Catalysis, 2015, 5, 2290-2295. | 11.2 | 26 |

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|---|---|---|---|
| 37 | Aminoboration: Addition of Bâ€“N Ïƒ Bonds across Câ€“C Ï€ Bonds. Journal of the American Chemical Society, 2015, 137, 10144-10147. | 13.7 | 92 |
| 38 | Mechanistic Studies of Gold and Palladium Cooperative Dual-Catalytic Cross-Coupling Systems. ACS Catalysis, 2014, 4, 622-629. | 11.2 | 50 |
| 39 | GOLD-CATALYZED CROSS-COUPLING REACTIONS. Catalytic Science Series, 2014, , 393-412. | 0.0 | 1 |
| 40 | Selectivity, Compatibility, Downstream Functionalization, and Silver Effect in the Gold and Palladium Dual-Catalytic Synthesis of Lactones. Organometallics, 2014, 33, 5448-5456. | 2.3 | 49 |
| 41 | Alkoxyboration: Ring-Closing Addition of Bâ€“O Ïƒ Bonds across Alkynes. Journal of the American Chemical Society, 2014, 136, 4740-4745. | 13.7 | 104 |
| 42 | BODIPY Fluorophore Toolkit for Probing Chemical Reactivity and for Tagging Reactive Functional Groups. European Journal of Organic Chemistry, 2014, 2014, 3347-3354. | 2.4 | 14 |
| 43 | Phase Separation Polymerization of Dicyclopentadiene Characterized by In Operando Fluorescence Microscopy. Journal of the American Chemical Society, 2013, 135, 12324-12328. | 13.7 | 37 |
| 44 | Small Number of Active Sites and Single-Locus Kinetics Revealed in (salph)Co-Catalyzed Ethylene Oxide Polymerization. ACS Catalysis, 2013, 3, 2150-2153. | 11.2 | 11 |
| 45 | Opportunities and challenges in single-molecule and single-particle fluorescence microscopy for mechanistic studies of chemical reactions. Nature Chemistry, 2013, 5, 993-999. | 13.6 | 142 |
| 46 | Synthesis of Alkenylgold(I) Compounds via Sequential Hydrozirconation and Zirconium to Gold Transmetalation. Organometallics, 2012, 31, 5990-5993. | 2.3 | 20 |
| 47 | Mechanistic Studies of Azaphilic versus Carbophilic Activation by Gold(I) in the Gold/Palladium Dual-Catalyzed Rearrangement of Alkenyl Vinyl Aziridines. Organometallics, 2012, 31, 6843-6850. | 2.3 | 66 |
| 48 | Organogold Reactivity with Palladium, Nickel, and Rhodium: Transmetalation, Cross-Coupling, and Dual Catalysis. Accounts of Chemical Research, 2011, 44, 603-613. | 15.6 | 186 |
| 49 | Nickel-Catalyzed Cross-Coupling of Organogold Reagents. Organometallics, 2011, 30, 1299-1302. | 2.3 | 43 |
| 50 | Homogeneous vs Heterogeneous Polymerization Catalysis Revealed by Single-Particle Fluorescence Microscopy. Journal of the American Chemical Society, 2011, 133, 18145-18147. | 13.7 | 56 |
| 51 | Real-Time Imaging of Platinumâ^'Sulfur Ligand Exchange Reactions at the Single-Molecule Level via a General Chemical Technique. Organometallics, 2011, 30, 2901-2907. | 2.3 | 28 |
| 52 | Deconvoluting Subensemble Chemical Reaction Kinetics of Platinumâ€“Sulfur Ligand Exchange Detected with Single-Molecule Fluorescence Microscopy. Inorganic Chemistry, 2011, 50, 9201-9203. | 4.0 | 19 |
| 53 | Gold and Rhodium Transmetalation: Mechanistic Insights and Dual-Metal Reactivity. Organometallics, 2011, 30, 1776-1779. | 2.3 | 45 |
| 54 | Direct Observation of Gold/Palladium Transmetalation in an Organogold Heck Reaction. Organometallics, 2011, 30, 4811-4813. | 2.3 | 26 |

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|---|---|---|---|
| 55 | Single-Molecule Imaging of Platinum Ligand Exchange Reaction Reveals Reactivity Distribution. Journal of the American Chemical Society, 2010, 132, 15167-15169. | 13.7 | 45 |
| 56 | Relative Kinetic Basicities of Organogold Compounds. Organometallics, 2010, 29, 1712-1716. | 2.3 | 92 |
| 57 | Palladium-Catalyzed Carboauration of Alkynes and Palladium/Gold Cross-Coupling. Organometallics, 2009, 28, 1275-1277. | 2.3 | 138 |
| 58 | Catalyzed Catalysis Using Carbophilic Lewis Acidic Gold and Lewis Basic Palladium: Synthesis of Substituted Butenolides and Isocoumarins. Journal of the American Chemical Society, 2009, 131, 18022-18023. | 13.7 | 228 |
| 59 | A General Fluorescence Resonance Energy Transfer (FRET) Method for Observation and Quantification of Organometallic Complexes under Reaction Conditions. Organometallics, 2009, 28, 4643-4645. | 2.3 | 23 |
| 60 | Toward the Single-Molecule Investigation of Organometallic Reaction Mechanisms: Single-Molecule Imaging of Fluorophore-Tagged Palladium(II) Complexes. Organometallics, 2008, 27, 2172-2175. | 2.3 | 35 |
| 61 | Synthetic and Mechanistic Studies of Strained Heterocycle Opening Reactions Mediated by Zirconium(IV) Imido Complexes. Organometallics, 2005, 24, 1647-1659. | 2.3 | 25 |
| 62 | Nitro and Nitroso Metathesis Reactions with Monomeric Zirconium Imido Complexes. Organometallics, 2004, 23, 4003-4005. | 2.3 | 22 |
| 63 | Epoxide-Opening and Group-Transfer Reactions Mediated by Monomeric Zirconium Imido Complexes. Journal of the American Chemical Society, 2003, 125, 14276-14277. | 13.7 | 33 |
| 64 | Enantioselective Oxidation of Di-tert-Butyl Disulfide with a Vanadium Catalyst:Â Progress toward Mechanism Elucidationâ€. Journal of Organic Chemistry, 2003, 68, 150-155. | 3.2 | 110 |
| 65 | Application of Physical Organic Methods to the Investigation of Organometallic Reaction Mechanisms. Journal of Organic Chemistry, 2003, 68, 4127-4137. | 3.2 | 25 |
| 66 | Repurposing Ï€ Electrophilic Cyclization/Dealkylation for Group Transfer. Angewandte Chemie, 0, , . | 2.0 | 0 |