Anne C Staubitz

List of Publications by Year
in descending order

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Version: 2024-02-01

71 papers	5,113 citations	201575 27 h-index	102432 66 g-index

82 all docs	82 docs citations	82 times ranked	4313 citing authors

#	Article	IF	Citations
1	Ammonia-Borane and Related Compounds as Dihydrogen Sources. Chemical Reviews, 2010, 110, 4079-4124.	23.0	1,106
2	Bâ€“N compounds for chemical hydrogenstorage. Chemical Society Reviews, 2009, 38, 279-293.	18.7	1,001
3	Amineâˆ’ and Phosphineâˆ’Borane Adducts: New Interest in Old Molecules. Chemical Reviews, 2010, 110, 4023-4078.	23.0	602
4	Catalytic Dehydrocoupling/Dehydrogenation ofN-Methylamine-Borane and Ammonia-Borane: Synthesis and Characterization of High Molecular Weight Polyaminoboranes. Journal of the American Chemical Society, 2010, 132, 13332-13345.	6.6	280
5	Iridiumâ€Catalyzed Dehydrocoupling of Primary Amineâ€“Borane Adducts: A Route to High Molecular Weight Polyaminoboranes, Boronâ€“Nitrogen Analogues of Polyolefins. Angewandte Chemie - International Edition, 2008, 47, 6212-6215.	7.2	253
6	Homogeneous Catalytic Dehydrocoupling/Dehydrogenation of Amineâˆ’Borane Adducts by Early Transition Metal, Group 4 Metallocene Complexes. Journal of the American Chemical Society, 2010, 132, 3831-3841.	6.6	204
7	Bioinspired photocontrollable microstructured transport device. Science Robotics, 2017, 2, .	9.9	116
8	Computational Analysis of Amineâˆ’Borane Adducts as Potential Hydrogen Storage Materials with Reversible Hydrogen Uptake. Inorganic Chemistry, 2008, 47, 5910-5918.	1.9	91
9	Redox-Active Metallomacrocycles and Cyclic Metallopolymers: Photocontrolled Ring-Opening Oligomerization and Polymerization of Silicon-Bridged [1]Ferrocenophanes Using Substitutionally-Labile Lewis Bases as Initiators. Journal of the American Chemical Society, 2009, 131, 14958-14968.	6.6	89
10	Joining the Unâ€Joinable: Adhesion Between Low Surface Energy Polymers Using Tetrapodal ZnO Linkers. Advanced Materials, 2012, 24, 5676-5680.	11.1	88
11	Living Materials Herald a New Era in Soft Robotics. Advanced Materials, 2019, 31, e1807747.	11.1	78
12	Ring-Opening Polymerization of a Galla[1]ferrocenophane: A Gallium-Bridged Polyferrocene with Observable Tacticity. Journal of the American Chemical Society, 2010, 132, 1794-1795.	6.6	64
13	Highly Tinâ€Selective Stille Coupling: Synthesis of a Polymer Containing a Stannole in the Main Chain. Angewandte Chemie - International Edition, 2014, 53, 12916-12920.	7.2	59
14	High molecular weight poly(N-methyl-B-vinylazaborine) â€“ a semi-inorganic Bâ€“N polystyrene analogue. Chemical Communications, 2017, 53, 7258-7261.	2.2	56
15	Mild Synthesis of Polyfunctional Benzimidazoles and Indoles by the Reduction of Functionalized Nitroarenes with Phenylmagnesium Chloride. Chemistry - A European Journal, 2003, 9, 5323-5331.	1.7	55
16	â€œSpontaneousâ€•Ambient Temperature Dehydrocoupling of Aromatic Amineâ€“Boranes. Chemistry - A European Journal, 2012, 18, 4665-4680.	1.7	54
17	Chemoselective Cross-Coupling Reactions with Differentiation between Two Nucleophilic Sites on a Single Aromatic Substrate. Organic Letters, 2012, 14, 5644-5647.	2.4	50
18	Scope and Selectivity of Heterogeneous Rh⁰â€Catalyzed Tandem Dehydrocoupling/Hydrogenation Using Me₂NHÂ·BH₃ as a Stoichiometric H₂ Source. European Journal of Organic Chemistry, 2011, 2011, 672-675.	1.2	48

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19	Optimization of the Mizorokiâ€"Heck Reaction Using Design of Experiment (DoE). Organic Process Research and Development, 2006, 10, 64-69.	1.3	40
20	Diversely halogenated spiropyrans - Useful synthetic building blocks for a versatile class of molecular switches. Dyes and Pigments, 2017, 136, 292-301.	2.0	39
21	Light, Force, and Heat: A Multi-Stimuli Composite that Reveals its Violent Past. ACS Applied Materials & Interfaces, 2017, 9, 38000-38007.	4.0	37
22	Dual Selectivity: Electrophile and Nucleophile Selective Cross-Coupling Reactions on a Single Aromatic Substrate. Organic Letters, 2013, 15, 4666-4669.	2.4	36
23	A Cooperative Role for the Counteranion in the PCl₅-Initiated Living, Cationic Chain Growth Polycondensation of the Phosphoranimine Cl₃Pâ•NSiMe₃. Journal of the American Chemical Society, 2012, 134, 15293-15296.	6.6	34
24	Challenges and Solutions for Joining Polymer Materials. Macromolecular Rapid Communications, 2014, 35, 1551-1570.	2.0	34
25	Strain-Induced Cleavage of Carbonâ€"Carbon Bonds: Bridge Rupture Reactions of Group 8 Dicarba[2]metallocenophanes. Journal of the American Chemical Society, 2010, 132, 1988-1998.	6.6	33
26	Experimental and Theoretical Study of the Living Polymerization of N-Silylphosphoranimines. Synthesis of New Block Copolyphosphazenes. Organometallics, 2012, 31, 2571-2581.	1.1	30
27	Cross-Coupling Strategy for the Synthesis of Diazocines. Organic Letters, 2020, 22, 1624-1627.	2.4	29
28	Self-reporting mechanochromic coating: a glassfiber reinforced polymer composite that predicts impact induced damage. Materials Horizons, 2020, 7, 598-604.	6.4	27
29	Hoch Zinnâ€selektive Stilleâ€Kupplung: Polymersynthese mit einem Stannol in der Hauptkette. Angewandte Chemie, 2014, 126, 13130-13134.	1.6	26
30	Tuning the aggregation behaviour of BN-coronene diimides with imide substituents and their performance in devices (OLEDs and OFETs). Journal of Materials Chemistry C, 2021, 9, 14720-14729.	2.7	25
31	Negishi's Reagent Versus Rosenthal's Reagent in the Formation of Zirconacyclopentadienes. Chemistry - A European Journal, 2019, 25, 13318-13328.	1.7	24
32	Tin-Functionalized Azobenzenes as Nucleophiles in Stille Cross-Coupling Reactions. Journal of Organic Chemistry, 2014, 79, 1719-1728.	1.7	20
33	Tuning the Optoelectronic Properties of Stannoles by the Judicious Choice of the Organic Substituents. Inorganic Chemistry, 2018, 57, 12562-12575.	1.9	20
34	Experimental and Theoretical Studies of the Potential Interconversion of the Amineâ€"Borane iPr₂NHÂ·BH(C₆F₅)₂ and the Aminoborane iPr₂N=B(C₆F₅)₂ Involving Hydrogen Loss and Uptake. European Journal of Inorganic Chemistry, 2011, 2011, 5279-5287.	1.0	18
35	Highâ€Yield Lithiation of Azobenzenes by Tinâ€"Lithium Exchange. Chemistry - A European Journal, 2015, 21, 11165-11173.	1.7	17
36	Syntheses and Properties of Tinâ€Containing Conjugated Heterocycles. Chemistry - A European Journal, 2018, 24, 5680-5696.	1.7	17

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37	Thermochromic Behavior of Yttrium-Substituted Bismuth Oxides. ACS Applied Materials & Interfaces, 2019, 11, 33147-33156.	4.0	17
38	Reduction of N-Allylamides by LiAlH₄: Unexpected Attack of the Double Bond with Mechanistic Studies of Product and Byproduct Formation. Journal of Organic Chemistry, 2014, 79, 10284-10295.	1.7	15
39	Sila-Ibuprofen. Journal of Medicinal Chemistry, 2020, 63, 12614-12622.	2.9	14
40	From a 1,2-azaborinine to largeBN-PAHsviaelectrophilic cyclization: synthesis, characterization and promising optical properties. Organic Chemistry Frontiers, 2021, 8, 10-17.	2.3	14
41	Nucleophileâ€Selective Crossâ€Coupling Reactions with Vinyl and Alkynyl Bromides on a Dinucleophilic Aromatic Substrate. European Journal of Organic Chemistry, 2015, 2015, 2498-2502.	1.2	13
42	A new photo switchable azobenzene macrocycle without thermal relaxation at ambient temperature. Journal of Materials Chemistry C, 2021, 9, 82-87.	2.7	13
43	Influence of the porosity on the photoresponse of a liquid crystal elastomer. Royal Society Open Science, 2016, 3, 150700.	1.1	12
44	Modification of Azobenzenes by Cross-Coupling Reactions. Synthesis, 2021, 53, 1213-1228.	1.2	12
45	Aggregation induced emission â€“ emissive stannoles in the solid state. Chemical Communications, 2020, 56, 9775-9778.	2.2	10
46	BN-Substituted coronene diimide donorâ€“acceptorâ€“donor triads: photophysical, (spectro)-electrochemical studies and Lewis behavior. Journal of Materials Chemistry C, 2021, 9, 13926-13934.	2.7	10
47	Generation of Highâ€Molecularâ€Weight Polymers with Diverse Substituents: An Unusual Metalâ€Free Synthesis of Poly(aminoborane)s. Angewandte Chemie - International Edition, 2018, 57, 5990-5992.	7.2	9
48	Efficient reversible photoisomerisation with large solvodynamic size-switching of a main chain poly(azobenzene-alt-trisiloxane). Journal of Materials Chemistry C, 2020, 8, 1835-1845.	2.7	9
49	Mechanochromic Microfibers Stabilized by Polymer Blending. ACS Applied Polymer Materials, 2020, 2, 2055-2062.	2.0	8
50	Synthesis of poly(thiophene-alt-pyrrole) from a difunctionalized thienylpyrrole by Kumada polycondensation. Tetrahedron, 2015, 71, 5399-5406.	1.0	7
51	Synthesis, Structure, Thermal Behavior and cis/trans Isomerization of 2,2â€²-(EMe3)2 (E = C, Si, Ge, Sn) Substituted Azobenzenes. Molecules, 2019, 24, 303.	1.7	6
52	Synthesis of a Series of 12-Membered Azobenzene Macrocycles and Tuning of the Half-Life of the Thermal Zâ€“E Isomerization. Journal of Organic Chemistry, 2023, 88, 3372-3377.	1.7	6
53	BN-Substitution in Dithienylpyrenes Prevents Excimer Formation in Solution and in the Solid State. Journal of Physical Chemistry C, 2022, 126, 4563-4576.	1.5	5
54	The influence of the formal replacement of thiophenes by stannoles in terthiophene and sexithiophene on the optoelectronic properties and electrochemical behavior. Dalton Transactions, 2021, 50, 6213-6221.	1.6	3

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55	Active Ester Functionalized Azobenzenes as Versatile Building Blocks. Molecules, 2021, 26, 3916.	1.7	3
56	A Co-Polymerizable Linker for the Covalent Attachment of Fibronectin Makes pHEMA Hydrogels Cell-Adhesive. Gels, 2022, 8, 258.	2.1	3
57	Expeditious Functionalization of Quinolines in Positions 2 and 8 via PolyfunctionalÂ-Aryl- and Heteroarylmagnesium Intermediates. Synthesis, 2003, 2003, 0233-0242.	1.2	2
58	Experimental and Theoretical Studies of a Spirostannole and Formation of a Pentaorganostannate. Molecules, 2020, 25, 4993.	1.7	2
59	Ï€-Conjugated stannole copolymers synthesised by a tin-selective Stille cross-coupling reaction. Materials Advances, 2021, 2, 3282-3293.	2.6	2
60	Crystal structures of 3,3â€²-bis(hydroxydimethylsilanyl)azobenzene and 4,4â€²-bis(hydroxydimethylsilane)azobenzene. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1590-1594.	0.2	2
61	Synthesis and Thermal Investigations of Eleven-Membered Ring Systems Containing One of the Heavier Group 14 Element Atoms Si, Ge, and Sn. Molecules, 2020, 25, 283.	1.7	2
62	Hochmolekulare Polymere mit diversen Substituenten durch eine ungewÃ¶hnliche, metallfreie Synthese von Poly(aminoboranen). Angewandte Chemie, 2018, 130, 6096-6098.	1.6	1
63	Conjugated oligomers with alternating heterocycles from a single monomer: synthesis and demonstration of electroluminescence. Organic Chemistry Frontiers, 2019, 6, 3636-3643.	2.3	1
64	The bis(Biphenyl)phosphorus Fragment in Trivalent and Tetravalent P-Environments. Inorganics, 2021, 9, 82.	1.2	1
65	Expeditious Functionalization of Quinolines in Positions 2 and 8 via Polyfunctional Aryl- and Heteroarylmagnesium Intermediates. ChemInform, 2003, 34, no.	0.1	0
66	Mild Synthesis of Polyfunctional Benzimidazoles and Indoles by the Reduction of Functionalized Nitroarenes with Phenylmagnesium Chloride.. ChemInform, 2004, 35, no.	0.1	0
67	Crystal structure of 1,3-bis(4-hexyl-5-iodothiophen-2-yl)-4,5,6,7-tetrahydro-2-benzothiophene. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o1133-o1134.	0.2	0
68	Wie Licht Klebrigkeit steuert. Nachrichten Aus Der Chemie, 2017, 65, 1194-1196.	0.0	0
69	Frontispiece: Syntheses and Properties of Tin-Containing Conjugated Heterocycles. Chemistry - A European Journal, 2018, 24, .	1.7	0
70	Yttrium-substituted bismuth oxides as high-temperature thermochromic materials. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e414-e414.	0.0	0
71	Synthesis and crystal structure of (E)-1,2-bis[2-(methylsulfanyl)phenyl]diazene. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1808-1811.	0.2	0