

Annette Bayer

List of Publications by Year in descending order

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59
papers

1,610
citations

361388

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315719

38
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docs citations

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times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Indoles and Pyrroles Utilizing Iridium Carbenes Generated from Sulfoxonium Ylides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4277-4281.	13.8	190
2	Rationally Designed Ligands for Asymmetric Iridium-Catalyzed Hydrogenation of Olefins. <i>Journal of the American Chemical Society</i> , 2004, 126, 14308-14309.	13.7	144
3	On the Mechanism of Iridium-Catalyzed Asymmetric Hydrogenation of Imines and Alkenes: A Theoretical Study. <i>Organometallics</i> , 2011, 30, 2483-2497.	2.3	123
4	Enantioselective Incorporation of CO ₂ : Status and Potential. <i>ACS Catalysis</i> , 2017, 7, 7231-7244.	11.2	105
5	Sulfoxonium Ylide Derived Metal Carbenoids in Organic Synthesis. <i>Synthesis</i> , 2019, 51, 612-628.	2.3	89
6	Enantioselective imine hydrogenation with iridium-catalysts: Reactions, mechanisms and stereocontrol. <i>Coordination Chemistry Reviews</i> , 2014, 268, 59-82.	18.8	77
7	Rhodium-Catalyzed Synthesis of Sulfur Ylides via in Situ Generated Iodonium Ylides. <i>Organic Letters</i> , 2017, 19, 6688-6691.	4.6	61
8	Iron-Catalyzed Carbenoid Transfer Reactions of Vinyl Sulfoxonium Ylides: An Experimental and Computational Study. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16180-16184.	13.8	52
9	Antioxidant and Anti-Inflammatory Activities of Baretin. <i>Marine Drugs</i> , 2013, 11, 2655-2666.	4.6	51
10	Metallo- β -lactamase inhibitors by bioisosteric replacement: Preparation, activity and binding. <i>European Journal of Medicinal Chemistry</i> , 2017, 135, 159-173.	5.5	48
11	Synthesis of Indoles and Pyrroles Utilizing Iridium Carbenes Generated from Sulfoxonium Ylides. <i>Angewandte Chemie</i> , 2017, 129, 4341-4345.	2.0	41
12	Asymmetric Hetero-Diels-Alder Reactions of N-Sulfinyl Dienophiles Using Chiral Bis(oxazoline)Copper(II) and Zinc(II) Triflates. <i>Journal of Organic Chemistry</i> , 2004, 69, 7198-7205.	3.2	40
13	A Concise Total Synthesis of Breifussin A and B. <i>Organic Letters</i> , 2015, 17, 122-125.	4.6	34
14	A focused fragment library targeting the antibiotic resistance enzyme - Oxacillinase-48: Synthesis, structural evaluation and inhibitor design. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 634-648.	5.5	32
15	Renewable Solvents for Palladium-Catalyzed Carbonylation Reactions. <i>Organic Process Research and Development</i> , 2020, 24, 2665-2675.	2.7	32
16	Catalytic Asymmetric Hetero Diels-Alder Reactions of N-Sulfinyl Dienophiles with Chiral Bis(oxazoline)copper(II) and -zinc(II) Triflates. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5249-5259.	2.4	28
17	Screening and Design of Inhibitor Scaffolds for the Antibiotic Resistance Oxacillinase-48 (OXA-48) through Surface Plasmon Resonance Screening. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5542-5554.	6.4	24
18	Rhodium-Catalyzed Hydrocarboxylation: Mechanistic Analysis Reveals Unusual Transition State for Carbon-Carbon Bond Formation. <i>Organometallics</i> , 2018, 37, 941-948.	2.3	24

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19	Exploration of New Biomass-Derived Solvents: Application to Carboxylation Reactions. <i>ChemSusChem</i> , 2020, 13, 2080-2088.	6.8	22
20	ZN148 Is a Modular Synthetic Metallo- β -Lactamase Inhibitor That Reverses Carbapenem Resistance in Gram-Negative Pathogens <i>in Vivo</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	22
21	Amphipathic Barbiturates as Mimics of Antimicrobial Peptides and the Marine Natural Products Eusynstyelamides with Activity against Multi-resistant Clinical Isolates. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11395-11417.	6.4	22
22	Highly enantioselective hetero Diels-Alder reactions of N-sulfinyl dienophiles promoted by copper(II)- and zinc(II)-chiral bis(oxazoline) complexes. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 2937-2939.	1.8	20
23	Securamine Derivatives from the Arctic Bryozoan <i>Securiflustra securifrons</i> . <i>Journal of Natural Products</i> , 2017, 80, 3276-3283.	3.0	20
24	Kinase Chemodiversity from the Arctic: The Breitfussins. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10167-10181.	6.4	20
25	Asymmetric N-sulfinyl dienophile Diels-Alder cycloadditions using chiral Ti(IV)-based Lewis acids. <i>Tetrahedron Letters</i> , 2000, 41, 3743-3746.	1.4	18
26	Asymmetric Diels-Alder reactions of N-sulfinyl dienophiles using chiral Ti(IV) Lewis acids. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2407-2415.	1.8	18
27	Iridium-PHOX-Mediated Alkene Hydrogenation: Isomerization Influences the Stereochemical Outcome. <i>Organometallics</i> , 2014, 33, 2790-2797.	2.3	18
28	Formal C-H Carboxylation of Unactivated Arenes. <i>Chemistry - A European Journal</i> , 2020, 26, 6064-6069.	3.3	18
29	Substrate Binding in the Asymmetric Dihydroxylation Reaction - Investigation of the Stereoselectivity in the Dihydroxylation of Cs-Symmetric Divinylcarbinol Derivatives. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1769-1780.	2.4	17
30	Experimental and four-component relativistic DFT studies of tungsten carbonyl complexes. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 723-731.	1.9	17
31	Antimicrobial activity of amphipathic β , β -disubstituted β -amino amide derivatives against ESBL-producing multi-resistant bacteria; effect of halogenation, lipophilicity and cationic character. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111671.	5.5	16
32	Efficient and scalable synthesis of β , β -disubstituted β -amino amides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7570-7578.	2.8	14
33	Vinyl Sulfoxonium Ylide: A New Vinyl Carbenoid Transfer Reagent for the Synthesis of Heterocycles. <i>Synlett</i> , 2019, 30, 1377-1383.	1.8	14
34	Aryl N-methyliminodiacetic acid (MIDA) boronates from cyclotrimerization of ethynyl MIDA boronate with diynes. <i>Tetrahedron</i> , 2013, 69, 7910-7915.	1.9	12
35	Total synthesis of tubastrine and 3-dehydroxy tubastrine by microwave-assisted cross-coupling reactions. <i>Tetrahedron</i> , 2015, 71, 8278-8284.	1.9	11
36	Cyclotrimerization of unsymmetrically bromo-substituted diynes: toward the synthesis of potential selective inhibitors of tyrosine kinase 2. <i>Tetrahedron</i> , 2012, 68, 8463-8471.	1.9	10

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37	Structural studies of triazole inhibitors with promising inhibitor effects against antibiotic resistance metallo- β -lactamases. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115598.	3.0	10
38	Caesium fluoride-mediated hydrocarboxylation of alkenes and allenes: scope and mechanistic insights. <i>Chemical Science</i> , 2019, 10, 10072-10078.	7.4	9
39	Unequivocal structure confirmation of a breifussin analog by anisotropic NMR measurements. <i>Chemical Science</i> , 2020, 11, 12081-12088.	7.4	9
40	Carbonylative Suzuki-Miyaura couplings of sterically hindered aryl halides: synthesis of 2-aryloxybenzoate derivatives. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 1754-1759.	2.8	9
41	Lipids as versatile solvents for chemical synthesis. <i>Green Chemistry</i> , 2021, 23, 7219-7227.	9.0	9
42	Palladium(0)-Catalyzed Cross-Couplings of α -Bromophosphinines. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4756-4759.	2.4	8
43	An amphipathic cyclic tetrapeptide scaffold containing halogenated β -amino acids with activity against multiresistant bacteria. <i>Journal of Peptide Science</i> , 2018, 24, e3117.	1.4	8
44	Mechanistic Insights into Copper-Catalyzed Carboxylations. <i>Organometallics</i> , 2020, 39, 1545-1552.	2.3	7
45	Effects of docosahexaenoic (22:6n-3), tetracosapentaenoic (24:5n-3) and tetracosahexaenoic (24:6n-3) acids on the desaturation and elongation of n-3 polyunsaturated fatty acids in trout liver microsomes. <i>Lipids and Lipid Metabolism</i> , 1998, 1392, 309-319.	2.6	6
46	Structural Insights into TMB-1 and the Role of Residues 119 and 228 in Substrate and Inhibitor Binding. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	6
47	Iron-Catalyzed Carbenoid-Transfer Reactions of Vinyl Sulfoxonium Ylides: An Experimental and Computational Study. <i>Angewandte Chemie</i> , 2018, 130, 16412-16416.	2.0	6
48	Total Synthesis of Phorbazole B. <i>Molecules</i> , 2020, 25, 4848.	3.8	4
49	Computational and Experimental Insights into Asymmetric Rh-Catalyzed Hydrocarboxylation with CO ₂ . <i>European Journal of Organic Chemistry</i> , 2021, 2021, 663-670.	2.4	4
50	Aldol Condensations on a 3-Alkylidene-2,5-diketopiperazine: Synthesis of Two Marine Natural Products. <i>Synlett</i> , 2018, 29, 1303-1306.	1.8	3
51	NMR Backbone Assignment of VIM-2 and Identification of the Active Enantiomer of a Potential Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 257-261.	2.8	3
52	(1R*,3R*,6S*)-3,6-Dihydro-3,6-dimethyl-2-(toluene-4-sulfonyl)-1,4,2-thiazine 1-oxide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o198-o199.	0.2	2
53	Improved Buchwald-Hartwig Amination by the Use of Lipids and Lipid Impurities. <i>Organometallics</i> , 0, , .	2.3	2
54	Benzyl (1R*,3S*)-3,6-dihydro-3-methyl-1,4,2-thiazine-2-carboxylate 1-oxide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o165-o166.	0.2	1

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55	exo-3,6-Dihydro-3-methyl-2-(toluene-4-sulfonyl)-1,4,2-thiazine 1-oxide. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o1109-o1110.	0.2	0
56	Aminohydroxylation of Carbon?Carbon Double Bonds. ChemInform, 2005, 36, no.	0.0	0
57	Dihydroxylation of Carbon?Carbon Double Bonds. ChemInform, 2005, 36, no.	0.0	0
58	Asymmetric Hetero-Diels?Alder Reactions of N-Sulfinyl Dienophiles Using Chiral Bis(oxazoline)?Copper(II) and ?Zinc(II) Triflates.. ChemInform, 2005, 36, no.	0.0	0
59	Rationally Designed Ligands for Asymmetric Iridium-Catalyzed Hydrogenation of Olefins.. ChemInform, 2005, 36, no.	0.0	0