Hendrik Zipse

List of Publications by Year
in descending order

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90 papers	2,911 citations	172457 29 h-index	189892 50 g-index
99 all docs	99 docs citations	99 times ranked	3035 citing authors

#	Article	IF	Citations
1	The DMAP-Catalyzed Acetylation of Alcoholsâ€"A Mechanistic Study (DMAP=4-(Dimethylamino)pyridine). Chemistry - A European Journal, 2005, 11, 4751-4757.	3.3	269
2	Quantification and Theoretical Analysis of the Electrophilicities of Michael Acceptors. Journal of the American Chemical Society, 2017, 139, 13318-13329.	13.7	168
3	Radical stability and its role in synthesis and catalysis. Organic and Biomolecular Chemistry, 2010, 8, 3609.	2.8	158
4	The stability of nitrogen-centered radicals. Organic and Biomolecular Chemistry, 2015, 13, 157-169.	2.8	136
5	Nucleophilicities and Carbon Basicities of Pyridines. Chemistry - A European Journal, 2007, 13, 336-345.	3.3	125
6	Enhancing the Catalytic Activity of 4-(Dialkylamino)pyridines by Conformational Fixation. Angewandte Chemie - International Edition, 2003, 42, 4826-4828.	13.8	106
7	Theoretical Prediction of Selectivity in Kinetic Resolution of Secondary Alcohols Catalyzed by Chiral DMAP Derivatives. Journal of the American Chemical Society, 2012, 134, 9390-9399.	13.7	80
8	Boraneâ€"Lewis Base Complexes as Homolytic Hydrogen Atom Donors. Chemistry - A European Journal, 2010, 16, 6861-6865.	3.3	75
9	Steric Effects in the Uncatalyzed and DMAP-Catalyzed Acylation of Alcoholsâ€"Quantifying the Window of Opportunity in Kinetic Resolution Experiments. Chemistry - A European Journal, 2006, 12, 5779-5784.	3.3	74
10	Methyl Cation Affinities of Commonly Used Organocatalysts. Journal of the American Chemical Society, 2008, 130, 3473-3477.	13.7	70
11	The Lewis Base-Catalyzed Silylation of Alcoholsâ€"A Mechanistic Analysis. Journal of Organic Chemistry, 2014, 79, 8348-8357.	3.2	67
12	Radical Stability as a Guideline in Câ€"H Amination Reactions. Advanced Synthesis and Catalysis, 2016, 358, 3983-3991.	4.3	65
13	Î²-Phosphatoxyalkyl Radical Reactions:â€‰ Competing Phosphate Migration and Phosphoric Acid Elimination from a Radical Cationâˆ'Phosphate Anion Pair Formed by Heterolytic Fragmentation. Journal of the American Chemical Society, 1999, 121, 10685-10694.	13.7	62
14	A third generation of radical fluorinating agents based on N-fluoro-N-arylsulfonamides. Nature Communications, 2018, 9, 4888.	12.8	58
15	Marcus Analysis of Ambident Reactivity. Angewandte Chemie - International Edition, 2010, 49, 5165-5169.	13.8	54
16	Nucleophilicity and Electrophilicity Parameters for Predicting Absolute Rate Constants of Highly Asynchronous 1,3-Dipolar Cycloadditions of Aryldiazomethanes. Journal of the American Chemical Society, 2018, 140, 16758-16772.	13.7	52
17	Cycloaddition of CO₂ to epoxides by highly nucleophilic 4-aminopyridines: establishing a relationship between carbon basicity and catalytic performance by experimental and DFT investigations. Organic Chemistry Frontiers, 2021, 8, 613-627.	4.5	50
18	Fast Microsecond Dynamics of the Proteinâ€"Water Network in the Active Site of Human Carbonic Anhydrase II Studied by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 19276-19288.	13.7	46

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19	Stacking interactions as the principal design element in acyl-transfer catalysts. Organic and Biomolecular Chemistry, 2006, 4, 4223.	2.8	40
20	Highly Regioselective Addition of Allylic Zinc Halides and Various Zinc Enolates to [1.1.1]Propellane. Angewandte Chemie - International Edition, 2020, 59, 20235-20241.	13.8	40
21	Assessment of theoretical methods for the calculation of methyl cation affinities. Journal of Computational Chemistry, 2008, 29, 291-297.	3.3	39
22	Theoretical studies of 31P NMR spectral properties of phosphanes and related compounds in solution. Physical Chemistry Chemical Physics, 2011, 13, 5150.	2.8	39
23	Immobilized DMAP Derivatives Rivaling Homogeneous DMAP. European Journal of Organic Chemistry, 2011, 2011, 1527-1533.	2.4	38
24	The Stability of C Î± Peptide Radicals: Why Glycyl Radical Enzymes?. Chemistry - A European Journal, 2011, 17, 3781-3789.	3.3	38
25	Radicals in enzymatic catalysisâ€”a thermodynamic perspective. Faraday Discussions, 0, 145, 301-313.	3.2	37
26	Cation affinity numbers of Lewis bases. Beilstein Journal of Organic Chemistry, 2012, 8, 1406-1442.	2.2	36
27	Annelated Pyridines as Highly Nucleophilic and Lewis Basic Catalysts for Acylation Reactions. Chemistry - A European Journal, 2013, 19, 6435-6442.	3.3	34
28	Kinetics and Mechanism of Oxirane Formation by Darzens Condensation of Ketones: Quantification of the Electrophilicities of Ketones. Journal of the American Chemical Society, 2018, 140, 5500-5515.	13.7	34
29	Inductive Effects through Alkyl Groups â€“ How Long is Long Enough?. European Journal of Organic Chemistry, 2013, 2013, 5423-5430.	2.4	31
30	Organocatalysis: acylation catalysts. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 601-619.	14.6	28
31	Duality of Reactivity of a Biradicaloid Compound with an <i>o</i>-Quinodimethane Scaffold. Journal of the American Chemical Society, 2020, 142, 5408-5418.	13.7	25
32	Hydroxylic Solvents as Hydrogen Atom Donors in Radical Reactions. European Journal of Organic Chemistry, 2007, 2007, 5817-5820.	2.4	24
33	Hydrogen Transfer in SAMâ€Mediated Enzymatic Radical Reactions. Chemistry - A European Journal, 2012, 18, 16463-16472.	3.3	24
34	The Azaâ€Moritaâ€“Baylisâ€“Hillman Reaction: A Mechanistic and Kinetic Study. Chemistry - A European Journal, 2013, 19, 6429-6434.	3.3	24
35	Unprecedented Strong Lewis Basesâ€”Synthesis and Methyl Cation Affinities of Dimethylaminoâ€Substituted Terpyridines. Angewandte Chemie - International Edition, 2014, 53, 7647-7651.	13.8	24
36	Size-dependent rate acceleration in the silylation of secondary alcohols: the bigger the faster. Chemical Science, 2018, 9, 6509-6515.	7.4	24

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37	Methyl cation affinity (MCA) values for phosphanes. Journal of Physical Organic Chemistry, 2010, 23, 1036-1042.	1.9	22
38	Substituent Effects in the Silylation of Secondary Alcohols: A Mechanistic Study. Chemistry - A European Journal, 2018, 24, 15052-15058.	3.3	21
39	Student Individuality Impacts Use and Benefits of an Online Video Library for the Organic Chemistry Laboratory. Journal of Chemical Education, 2020, 97, 328-337.	2.3	20
40	A Predictive Model Towards Siteâ€Selective Metalations of Functionalized Heterocycles, Arenes, Olefins, and Alkanes using TMPZnClâ‹…LiCl. Angewandte Chemie - International Edition, 2020, 59, 14992-14999.	13.8	20
41	The performance of computational techniques in locating the charge separated intermediates in organocatalytic transformations. Journal of Computational Chemistry, 2009, 30, 2617-2624.	3.3	19
42	The aza-Moritaâ€“Baylisâ€“Hillman reaction of electronically and sterically deactivated substrates. Organic and Biomolecular Chemistry, 2012, 10, 3210.	2.8	19
43	Regioselective Transitionâ€Metalâ€Free Allylâ€“Allyl Crossâ€Couplings. Angewandte Chemie - International Edition, 2016, 55, 10502-10506.	13.8	19
44	Leaving Group Effects on the Selectivity of the Silylation of Alcohols: The Reactivityâ€“Selectivity Principle Revisited. Organic Letters, 2015, 17, 3318-3321.	4.6	18
45	Catalysis of aminolysis ofp-nitrophenyl acetate by 2-pyridones. Journal of Physical Organic Chemistry, 2005, 18, 901-907.	1.9	17
46	Dissociation energies of CÎ±â€“H bonds in amino acids â€“ a re-examination. RSC Advances, 2013, 3, 12403.	3.6	17
47	Development of a Modular Online Video Library for the Introductory Organic Chemistry Laboratory. Journal of Chemical Education, 2020, 97, 338-343.	2.3	17
48	The Sizeâ€Accelerated Kinetic Resolution of Secondary Alcohols. Angewandte Chemie - International Edition, 2021, 60, 774-778.	13.8	17
49	The Catalytic Potential of Substituted Pyridines in Acylation Reactions: Theoretical Prediction and Experimental Validation. ChemCatChem, 2012, 4, 559-566.	3.7	16
50	Nucleophilicities and Lewis Basicities of Sterically Hindered Pyridines. Synthesis, 2017, 49, 3495-3504.	2.3	15
51	Pyridinyl Amide Ion Pairs as Lewis Base Organocatalysts. Journal of Organic Chemistry, 2020, 85, 5390-5402.	3.2	15
52	Initiation Chemistries in Hydrocarbon (Aut)Oxidation. Chemistry - A European Journal, 2015, 21, 14060-14067.	3.3	14
53	Efficient Syntheses of New Super Lewis Basic Tris(dialkylamino)â€Substituted Terpyridines and Comparison of Their Methyl Cation Affinities. Chemistry - A European Journal, 2019, 25, 7526-7533.	3.3	13
54	Modular Design of Pyridine-Based Acyl-Transfer Catalysts. Synthesis, 2007, 2007, 1185-1196.	2.3	12

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55	The Catalytic Potential of 4-Guanidinylpyridines in Acylation Reactions. Synthesis, 2009, 2009, 2267-2277.	2.3	12
56	Aminopyridineâ€Borane Complexes as Hydrogen Atom Donor Reagents: Reaction Mechanism and Substrate Selectivity. Chemistry - A European Journal, 2017, 23, 13455-13464.	3.3	12
57	Chemoselectivity in Esterification Reactions â€“ Size Matters after All. Synthesis, 2017, 49, 3460-3470.	2.3	11
58	The Stability of Acylpyridinium Cations and Their Relation to the Catalytic Activity of Pyridine Bases. Synthesis, 2005, 2005, 1425-1430.	2.3	10
59	Mechanistic Analysis and Characterization of Intermediates in the Phosphaneâ€Catalyzed Oligomerization of Isocyanates. Chemistry - A European Journal, 2018, 24, 14387-14391.	3.3	10
60	Azo-dimethylaminopyridine-functionalized Ni(II)-porphyrin as a photoswitchable nucleophilic catalyst. Beilstein Journal of Organic Chemistry, 2020, 16, 2119-2126.	2.2	10
61	Reactivities of allenic and olefinic Michael acceptors towards phosphines. Chemical Communications, 2022, 58, 3358-3361.	4.1	10
62	Oï£¿O bond homolysis in hydrogen peroxide. Journal of Computational Chemistry, 2017, 38, 2186-2192.	3.3	9
63	Stereoselective and Stereospecific Triflateâ€Mediated Intramolecular Schmidt Reaction: Ready Access to Alkaloid Skeletons**. Angewandte Chemie - International Edition, 2021, 60, 10179-10185.	13.8	9
64	Regioselektive Allylâ€Allylâ€Kreuzkupplungen ohne Ãœbergangsmetallkatalysator. Angewandte Chemie, 2016, 128, 10658-10662.	2.0	8
65	Moleculeâ€Induced Radical Formation (MIRF) Reactionsâ€"A Reappraisal. Angewandte Chemie - International Edition, 2020, 59, 6318-6329.	13.8	8
66	Hoch regioselektive Addition von allylischen Zinkhalogeniden und verschiedenen Zinkenolaten an [1.1.1]Propellan. Angewandte Chemie, 2020, 132, 20412-20418.	2.0	8
67	A first-principles investigation of histidine and its ionic counterparts. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	7
68	Unique Stereoselective Homolytic Câˆ'O Bond Activation in Diketopiperazineâ€Derived Alkoxyamines by Adjacent Amide Pyramidalization. Chemistry - A European Journal, 2018, 24, 15336-15345.	3.3	7
69	Radicalâ€Pair Formation in Hydrocarbon (Aut)Oxidation. Chemistry - A European Journal, 2019, 25, 8604-8611.	3.3	7
70	Radical chain monoalkylation of pyridines. Chemical Science, 2021, 12, 15362-15373.	7.4	7
71	Conformation-Dependent Antioxidant Properties of Î²-Carotene. Organic and Biomolecular Chemistry, 2021, , .	2.8	7
72	Reliable Functionalization of 5,6â€Fused Bicyclic Nâ€Heterocycles Pyrazolopyrimidines and Imidazopyridazines via Zinc and Magnesium Organometallics. Chemistry - A European Journal, 2022, 28, .	3.3	7

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73	Phosphine-catalyzed [3 + 2] annulation of 2-aminoacrylates with allenoates and mechanistic studies. Catalysis Science and Technology, 2020, 10, 3959-3964.	4.1	6
74	TETâ€Like Oxidation in 5â€Methylcytosine and Derivatives: A Computational and Experimental Study. ChemBioChem, 2021, 22, 3333-3340.	2.6	6
75	Electrostatic Effects on the Stability of Peptide Radicals. Journal of Physical Chemistry B, 2018, 122, 8880-8890.	2.6	5
76	The pHâ€Dependence of the Hydration of 5â€Formylcytosine: an Experimental and Theoretical Study. ChemBioChem, 2022, , .	2.6	5
77	An Unusual Grobâ€“type Câ€“C/Câ€O Bond Cleavage of 5â€Acylâ€2,3â€dihydroâ€4<i>H</i>â€pyranâ€4â€one Derivatives. ChemistrySelect, 2016, 1, 1109-1116.	1.5	4
78	Conformational Preferences in Small Peptide Models: The Relevance of <i>cis</i>/<i>trans</i>â€Conformations. Chemistry - A European Journal, 2016, 22, 13328-13335.	3.3	4
79	Role of substituents in the Hofmannâ€“LÃ¶fflerâ€“Freytag reaction. A quantum-chemical case study on nicotine synthesis. Organic and Biomolecular Chemistry, 2021, 19, 854-865.	2.8	4
80	Size-Driven Inversion of Selectivity in Esterification Reactions: Secondary Beat Primary Alcohols. Journal of Organic Chemistry, 2021, 86, 3456-3489.	3.2	4
81	Die grÃ¶ÃŸenbeschleunigte kinetische Racematspaltung sekundÃrer Alkohole. Angewandte Chemie, 2021, 133, 786-791.	2.0	4
82	Sizeâ€Induced Inversion of Selectivity in the Acylation of 1,2â€Diols. Chemistry - A European Journal, 2021, 27, 18084-18092.	3.3	3
83	Combined in Silico and in Vitro Approaches To Uncover the Oxidation and Schiff Base Reaction of Baicalein as an Inhibitor of Amyloid Protein Aggregation. Chemistry - A European Journal, 2022, 28, .	3.3	3
84	Epigenetic Antiâ€Cancer Treatment With a Stabilized Carbocyclic Decitabine Analogue. Chemistry - A European Journal, 2022, 28, .	3.3	3
85	Transfer Hydrogenation in Open-Shell Nucleotides â€" A Theoretical Survey. Molecules, 2014, 19, 21489-21505.	3.8	2
86	Construction of Î±,Î±â€disubstituted Î±â€Amino Acid Derivatives via azaâ€Moritaâ€Baylisâ€Hillman Reactions of 2â€Aminoacrylates with Activated Olefins. ChemCatChem, 2020, 12, 1143-1147.	3.7	2
87	Stereoselective and Stereospecific Triflateâ€Mediated Intramolecular Schmidt Reaction: Ready Access to Alkaloid Skeletons**. Angewandte Chemie, 2021, 133, 10267-10273.	2.0	2
88	Annelated Pyridine Bases for the Selective Acylation of 1,2â€Diols. European Journal of Organic Chemistry, 2022, 2022, .	2.4	2
89	Front Cover Picture: Radical Stability as a Guideline in Câ€“H Amination Reactions (Adv. Synth. Catal.) Tj ETQq1 1 0.784314 rgBT /Over	4.3	0
90	MolekÃ¼lâ€induzierte Radikalbildung â€“ eine Neubewertung. Angewandte Chemie, 2020, 132, 6378-6389.	2.0	0