

Michael Rauch

List of Publications by Year in descending order

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29
papers

1,174
citations

394421

19
h-index

477307

29
g-index

29
all docs

29
docs citations

29
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Dehydrogenative ester synthesis from enol ethers and water with a ruthenium complex catalyzing two reactions in synergy. <i>Green Chemistry</i> , 2022, 24, 1481-1487.	9.0	8
2	Homogeneous Reforming of Aqueous Ethylene Glycol to Glycolic Acid and Pure Hydrogen Catalyzed by Pincer-Ruthenium Complexes Capable of Metal-Ligand Cooperation. <i>Chemistry - A European Journal</i> , 2021, 27, 4715-4722.	3.3	22
3	Highly efficient additive-free dehydrogenation of neat formic acid. <i>Nature Catalysis</i> , 2021, 4, 193-201.	34.4	92
4	Mechanistic Investigations of Ruthenium Catalyzed Dehydrogenative Thioester Synthesis and Thioester Hydrogenation. <i>ACS Catalysis</i> , 2021, 11, 2795-2807.	11.2	17
5	Synthesis, Structure, and Reactivity of a Terminal Cadmium Hydride Compound, $[\text{Pr}^{\text{t}}\text{-Tism}^{\text{Pr}}\text{-Benz}] \text{CdH}$. <i>Journal of the American Chemical Society</i> , 2021, 143, 10553-10559.	13.7	12
6	Efficient Base-Free Aqueous Reforming of Methanol Homogeneously Catalyzed by Ruthenium Exhibiting a Remarkable Acceleration by Added Catalytic Thiol. <i>Journal of the American Chemical Society</i> , 2021, 143, 17284-17291.	13.7	36
7	Catalytic Oxidative Deamination by Water with H_2 Liberation. <i>Journal of the American Chemical Society</i> , 2020, 142, 20875-20882.	13.7	26
8	Synthesis, Characterization, and Catalytic Activity of Bimetallic Ti/Cr Complexes. <i>Organometallics</i> , 2020, 39, 4592-4598.	2.3	2
9	Hydrogenative Depolymerization of Nylons. <i>Journal of the American Chemical Society</i> , 2020, 142, 14267-14275.	13.7	101
10	Metal-Ligand Cooperation Facilitates Bond Activation and Catalytic Hydrogenation with Zinc Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 14513-14521.	13.7	41
11	Catalytic Hydrogenation of Thioesters, Thiocarbamates, and Thioamides. <i>Journal of the American Chemical Society</i> , 2020, 142, 21628-21633.	13.7	22
12	Selective Room-Temperature Hydrogenation of Amides to Amines and Alcohols Catalyzed by a Ruthenium Pincer Complex and Mechanistic Insight. <i>ACS Catalysis</i> , 2020, 10, 5511-5515.	11.2	36
13	Formation of thioesters by dehydrogenative coupling of thiols and alcohols with H_2 evolution. <i>Nature Catalysis</i> , 2020, 3, 887-892.	34.4	32
14	Electrophotocatalysis with a Trisaminocyclopropenium Radical Dication. <i>Angewandte Chemie</i> , 2019, 131, 13452-13456.	2.0	43
15	Electrophotocatalysis with a Trisaminocyclopropenium Radical Dication. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13318-13322.	13.8	191
16	H^\bullet -Transfer-Initiated Synthesis of β -Lactams: Interpretation of Cycloisomerization and Hydrogenation Ratios. <i>ACS Catalysis</i> , 2019, 9, 10294-10298.	11.2	21
17	Selective Conversion of Carbon Dioxide to Formaldehyde via a Bis(silyl)acetal: Incorporation of Isotopically Labeled C1 Moieties Derived from Carbon Dioxide into Organic Molecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 17754-17762.	13.7	68
18	Reactivity of $[\text{Tism}^{\text{Pr}}\text{-MgMe}]$ towards secondary amines and terminal alkynes: Catalytic dehydrocoupling with hydrosilanes. <i>Inorganica Chimica Acta</i> , 2019, 494, 271-279.	2.4	2

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19	Oxidizable Ketones: Persistent Radical Cations from the Single-Electron Oxidation of 2,3-Diaminocyclopropenones.. <i>Angewandte Chemie</i> , 2019, 131, 8133-8136.	2.0	2
20	Oxidizable Ketones: Persistent Radical Cations from the Single-Electron Oxidation of 2,3-Diaminocyclopropenones.. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8049-8052.	13.8	17
21	Synthesis and Structural Characterization of Tris(isopropylbenzimidazol-2-ylthio)methyl Zinc Complexes, [Ti ^{Pr} ₃ Benz] ₂ ZnX: Modulation of Transannular Zn-C Interactions. <i>Organometallics</i> , 2018, 37, 1708-1718.	2.3	20
22	Insertion of CS ₂ into the Mg-H bond: synthesis and structural characterization of the magnesium dithioformate complex, [Ti ^{Pri} Benz] ₂ Mg(μ ₂ -S ₂ CH). <i>Dalton Transactions</i> , 2018, 47, 12596-12605.	3.3	8
23	Insertion of Isonitriles into the M-C Bonds of Group 4 Dialkyl Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 8980-8989.	13.7	8
24	Tris[(1-isopropylbenzimidazol-2-yl)dimethylsilyl]methyl metal complexes, [Ti ^{Pri} Benz] ₂ M: a new class of metallacarbatranes, isomerization to a tris(N-heterocyclic carbene) derivative, and evidence for an inverted ligand field. <i>Chemical Science</i> , 2017, 8, 4465-4474.	7.4	27
25	Synthesis, Structure, and Reactivity of a Terminal Magnesium Hydride Compound with a Carbatrane Motif, [Ti ^{Pri} ₃ Benz] ₂ MgH: A Multifunctional Catalyst for Hydrosilylation and Hydroboration. <i>Journal of the American Chemical Society</i> , 2017, 139, 13264-13267.	13.7	107
26	Zinc and Magnesium Catalysts for the Hydrosilylation of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 18162-18165.	13.7	128
27	Synthesis of a terminal zinc hydride compound, [Ti ^{Pri} ₃ Benz] ₂ ZnH: Access to a heterobimetallic compound from a hydroxide derivative, [Ti ^{Pri} ₃ Benz] ₂ ZnOH. <i>Polyhedron</i> , 2016, 103, 135-140.	2.2	17
28	Synthesis, structure and reactivity of a terminal magnesium fluoride compound, [Tp ^{But} ,Me] ₂ MgF: hydrogen bonding, halogen bonding and C-F bond formation. <i>Chemical Science</i> , 2016, 7, 142-149.	7.4	25
29	Synthesis, structure and reactivity of [Ti ^{But}] ₂ ZnH, a monomeric terminal zinc hydride compound in a sulfur-rich coordination environment: access to a heterobimetallic compound. <i>Chemical Communications</i> , 2016, 52, 2358-2361.	4.1	20