Henrik Junge

List of Publications by Citations

165 papers	14,228 citations	66 h-index	117 g-index
187 ext. papers	15,866 ext. citations	10 avg, IF	6.64 L-index

#	Paper	IF	Citations
165	Nanoscale Fe2O3-based catalysts for selective hydrogenation of nitroarenes to anilines. *Science*, **2013**, 342, 1073-6	33.3	704
164	Efficient dehydrogenation of formic acid using an iron catalyst. *Science*, **2011**, 333, 1733-6	33.3	641
163	Low-temperature aqueous-phase methanol dehydrogenation to hydrogen and carbon dioxide. *Nature*, **2013**, 495, 85-9	50.4	546
162	Homogeneous Catalysis for Sustainable Hydrogen Storage in Formic Acid and Alcohols. *Chemical Reviews*, **2018**, 118, 372-433	68.1	534
161	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. *Nature Chemistry*, **2013**, 5, 537-43	17.6	513
160	Formic acid as a hydrogen storage material - development of homogeneous catalysts for selective hydrogen release. *Chemical Society Reviews*, **2016**, 45, 3954-88	58.5	480
159	Controlled generation of hydrogen from formic acid amine adducts at room temperature and application in H2/O2 fuel cells. *Angewandte Chemie - International Edition*, **2008**, 47, 3962-5	16.4	421
158	Catalytic Generation of Hydrogen from Formic acid and its Derivatives: Useful Hydrogen Storage Materials. *Topics in Catalysis*, **2010**, 53, 902-914	2.3	347
157	Iron-catalyzed hydrogen production from formic acid. *Journal of the American Chemical Society*, **2010**, 132, 8924-34	16.4	297
156	Selective oxidation of alcohols to esters using heterogeneous Co3O4-N@C catalysts under mild conditions. *Journal of the American Chemical Society*, **2013**, 135, 10776-82	16.4	286
155	General and selective iron-catalyzed transfer hydrogenation of nitroarenes without base. *Journal of the American Chemical Society*, **2011**, 133, 12875-9	16.4	277
154	Selective hydrogen production from methanol with a defined iron pincer catalyst under mild conditions. *Angewandte Chemie - International Edition*, **2013**, 52, 14162-6	16.4	271
153	CO2-"neutral" hydrogen storage based on bicarbonates and formates. *Angewandte Chemie - International Edition*, **2011**, 50, 6411-4	16.4	246
152	Hydrogenation of esters to alcohols with a well-defined iron complex. *Angewandte Chemie - International Edition*, **2014**, 53, 8722-6	16.4	239
151	Mild and selective hydrogenation of aromatic and aliphatic (di)nitriles with a well-defined iron pincer complex. *Nature Communications*, **2014**, 5, 4111	17.4	229
150	Hydrogen generation at ambient conditions: application in fuel cells. *ChemSusChem*, **2008**, 1, 751-8	8.3	229
149	Towards a green process for bulk-scale synthesis of ethyl acetate: efficient acceptorless dehydrogenation of ethanol. *Angewandte Chemie - International Edition*, **2012**, 51, 5711-3	16.4	219

148	Mesoporous carbon nitride–silica composites by a combined sol–gel/thermal condensation approach and their application as photocatalysts. *Energy and Environmental Science*, **2011**, 4, 4668	35.4	218
147	Efficient hydrogen production from alcohols under mild reaction conditions. *Angewandte Chemie - International Edition*, **2011**, 50, 9593-7	16.4	214
146	Photocatalytic water reduction with copper-based photosensitizers: a noble-metal-free system. *Angewandte Chemie - International Edition*, **2013**, 52, 419-23	16.4	208
145	Water reduction with visible light: synergy between optical transitions and electron transfer in Au-TiO(2) catalysts visualized by in situ EPR spectroscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 11420-4	16.4	185
144	Efficient and highly selective iron-catalyzed reduction of nitroarenes. *Chemical Communications*, **2011**, 47, 10972-4	5.8	179
143	Light-driven hydrogen generation: efficient iron-based water reduction catalysts. *Angewandte Chemie - International Edition*, **2009**, 48, 9962-5	16.4	169
142	Solar Hydrogen Production by Plasmonic Au–TiO2 Catalysts: Impact of Synthesis Protocol and TiO2 Phase on Charge Transfer Efficiency and H2 Evolution Rates. *ACS Catalysis*, **2015**, 5, 2137-2148	13.1	166
141	Continuous Hydrogen Generation from Formic Acid: Highly Active and Stable Ruthenium Catalysts. *Advanced Synthesis and Catalysis*, **2009**, 351, 2517-2520	5.6	153
140	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. *Nature Communications*, **2014**, 5, 4123	17.4	152
139	Efficient and selective hydrogenation of amides to alcohols and amines using a well-defined manganese-PNN pincer complex. *Chemical Science*, **2017**, 8, 3576-3585	9.4	140
138	Kontrollierte Wasserstofferzeugung aus Ameisensäure-Amin-Addukten bei Raumtemperatur und direkte Nutzung in H2/O2-Brennstoffzellen. *Angewandte Chemie*, **2008**, 120, 4026-4029	3.6	134
137	Towards the development of a hydrogen battery. *Energy and Environmental Science*, **2012**, 5, 8907	35.4	132
136	A noble-metal-free system for photocatalytic hydrogen production from water. *Chemistry - A European Journal*, **2013**, 19, 15972-8	4.8	131
135	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. *Angewandte Chemie - International Edition*, **2017**, 56, 559-562	16.4	129
134	Nitrogen-Doped Graphene-Activated Iron-Oxide-Based Nanocatalysts for Selective Transfer Hydrogenation of Nitroarenes. *ACS Catalysis*, **2015**, 5, 1526-1529	13.1	126
133	Unravelling the Mechanism of Basic Aqueous Methanol Dehydrogenation Catalyzed by Ru-PNP Pincer Complexes. *Journal of the American Chemical Society*, **2016**, 138, 14890-14904	16.4	115
132	Synthesis, characterisation and application of iridium(III) photosensitisers for catalytic water reduction. *Chemistry - A European Journal*, **2011**, 17, 6998-7006	4.8	113
131	Improved hydrogen generation from formic acid. *Tetrahedron Letters*, **2009**, 50, 1603-1606	2	112

130	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. *Green Chemistry*, **2015**, 17, 898-902	10	109
129	Hydrogenation using iron oxide-based nanocatalysts for the synthesis of amines. *Nature Protocols*, **2015**, 10, 548-57	18.8	106
128	Towards a practical setup for hydrogen production from formic acid. *ChemSusChem*, **2013**, 6, 1172-6	8.3	102
127	Base-free hydrogen generation from methanol using a bi-catalytic system. *Chemical Communications*, **2014**, 50, 707-9	5.8	101
126	Photocatalytic hydrogen generation from water with iron carbonyl phosphine complexes: improved water reduction catalysts and mechanistic insights. *Chemistry - A European Journal*, **2011**, 17, 6425-36	4.8	98
125	ortho-Metalation of iron(0) tribenzylphosphine complexes: homogeneous catalysts for the generation of hydrogen from formic acid. *Angewandte Chemie - International Edition*, **2010**, 49, 8993-6	16.4	97
124	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. *Nature Protocols*, **2015**, 10, 916-26	18.8	96
123	Photo- and Electrochemical Valorization of Carbon Dioxide Using Earth-Abundant Molecular Catalysts. *Topics in Current Chemistry*, **2017**, 376, 1	7.2	94
122	Ruthenium-catalyzed hydrogen generation from glycerol and selective synthesis of lactic acid. *Green Chemistry*, **2015**, 17, 193-198	10	89
121	Towards a general ruthenium-catalyzed hydrogenation of secondary and tertiary amides to amines. *Chemical Science*, **2016**, 7, 3432-3442	9.4	87
120	A Stable Nanocobalt Catalyst with Highly Dispersed CoN Active Sites for the Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2017**, 56, 16616-16620	16.4	87
119	Ruthenium-catalyzed generation of hydrogen from iso-propanol. *Tetrahedron Letters*, **2005**, 46, 1031-1034	2	87
118	Synthesis and characterization of new iridium photosensitizers for catalytic hydrogen generation from water. *Chemistry - A European Journal*, **2012**, 18, 3220-5	4.8	86
117	Novel improved ruthenium catalysts for the generation of hydrogen from alcohols. *Chemical Communications*, **2007**, 522-4	5.8	85
116	Structure–Activity Relationships in Bulk Polymeric and Sol–Gel-Derived Carbon Nitrides during Photocatalytic Hydrogen Production. *Chemistry of Materials*, **2014**, 26, 1727-1733	9.6	84
115	Selective iron-catalyzed transfer hydrogenation of terminal alkynes. *Chemical Communications*, **2012**, 48, 4827-9	5.8	81
114	Exploring the Reactivity of Nickel Pincer Complexes in the Decomposition of Formic Acid to CO2/H2 and the Hydrogenation of NaHCO3 to HCOONa. *ChemCatChem*, **2015**, 7, 65-69	5.2	79
113	Water oxidation with molecularly defined iridium complexes: insights into homogeneous versus heterogeneous catalysis. *Chemistry - A European Journal*, **2012**, 18, 12749-58	4.8	79

112	Formic acid dehydrogenation catalysed by ruthenium complexes bearing the tripodal ligands triphos and NP3. *Dalton Transactions*, **2013**, 42, 2495-501	4.3	79
111	Hydrogen generation: catalytic acceleration and control by light. *Chemical Communications*, **2009**, 4185-7	5.8	77
110	Band alignment investigations of heterostructure NiO/TiO nanomaterials used as efficient heterojunction earth-abundant metal oxide photocatalysts for hydrogen production. *Physical Chemistry Chemical Physics*, **2017**, 19, 19279-19288	3.6	73
109	Intermetallic nickel silicide nanocatalyst-A non-noble metal-based general hydrogenation catalyst. *Science Advances*, **2018**, 4, eaat0761	14.3	72
108	Death and Rebirth: Photocatalytic Hydrogen Production by a Self-Organizing Copper–Iron System. *ACS Catalysis*, **2014**, 4, 1845-1849	13.1	71
107	Selective Hydrogen Production from Methanol with a Defined Iron Pincer Catalyst under Mild Conditions. *Angewandte Chemie*, **2013**, 125, 14412-14416	3.6	71
106	Kohlenstoffdioxid-neutrale Wasserstoffspeicherung basierend auf Bicarbonaten und Formiaten. *Angewandte Chemie*, **2011**, 123, 6535-6538	3.6	71
105	Selective catalytic hydrogenation of nitriles to primary amines using iron pincer complexes. *Catalysis Science and Technology*, **2016**, 6, 4768-4772	5.5	70
104	Efficient Base-Free Hydrogenation of Amides to Alcohols and Amines Catalyzed by Well-Defined Pincer Imidazolyl–Ruthenium Complexes. *ACS Catalysis*, **2016**, 6, 47-54	13.1	69
103	Earth-abundant photocatalytic systems for the visible-light-driven reduction of CO2 to CO. *Green Chemistry*, **2017**, 19, 2356-2360	10	68
102	Selective ruthenium-catalyzed methylation of 2-arylethanols using methanol as C1 feedstock. *Chemical Communications*, **2014**, 50, 14991-4	5.8	68
101	Streamlined hydrogen production from biomass. *Nature Catalysis*, **2018**, 1, 332-338	36.5	67
100	A convenient and general ruthenium-catalyzed transfer hydrogenation of nitro- and azobenzenes. *Chemistry - A European Journal*, **2011**, 17, 14375-9	4.8	67
99	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2020**, 59, 15849-15854	16.4	65
98	Heteroleptic Copper Photosensitizers: Why an Extended π System Does Not Automatically Lead to Enhanced Hydrogen Production. *Chemistry - A European Journal*, **2017**, 23, 312-319	4.8	65
97	New Insights into the Photocatalytic Properties of RuO2/TiO2 Mesoporous Heterostructures for Hydrogen Production and Organic Pollutant Photodecomposition. *Journal of Physical Chemistry C*, **2015**, 119, 7006-7015	3.8	61
96	Hydrogen evolution from water/alcohol mixtures: effective in situ generation of an active Au/TiO2 catalyst. *ChemSusChem*, **2012**, 5, 530-3	8.3	61
95	Efficient Hydrogen Production from Alcohols under Mild Reaction Conditions. *Angewandte Chemie*, **2011**, 123, 9767-9771	3.6	61

94	Copper-Based Photosensitisers in Water Reduction: A More Efficient In Situ Formed System and Improved Mechanistic Understanding. *Chemistry - A European Journal*, **2016**, 22, 1233-8	4.8	60
93	Hydrierung von Estern zu Alkoholen mit einem definierten Eisenkomplex. *Angewandte Chemie*, **2014**, 126, 8867-8871	3.6	58
92	Photocatalytic Water Reduction with Copper-Based Photosensitizers: A Noble-Metal-Free System. *Angewandte Chemie*, **2013**, 125, 437-441	3.6	58
91	Efficient and selective hydrogen generation from bioethanol using ruthenium pincer-type complexes. *ChemSusChem*, **2014**, 7, 2419-22	8.3	54
90	Efficient and convenient palladium-catalyzed amination of allylic alcohols with N-heterocycles. *Angewandte Chemie - International Edition*, **2012**, 51, 11556-60	16.4	53
89	Towards a Green Process for Bulk-Scale Synthesis of Ethyl Acetate: Efficient Acceptorless Dehydrogenation of Ethanol. *Angewandte Chemie*, **2012**, 124, 5809-5811	3.6	53
88	Insights into the mechanism of photocatalytic water reduction by DFT-supported in situ EPR/Raman spectroscopy. *Angewandte Chemie - International Edition*, **2011**, 50, 10246-50	16.4	53
87	"Nanorust"-catalyzed benign oxidation of amines for selective synthesis of nitriles. *ChemSusChem*, **2015**, 8, 92-6	8.3	50
86	Selective Earth-Abundant System for CO2 Reduction: Comparing Photo- and Electrocatalytic Processes. *ACS Catalysis*, **2019**, 9, 2091-2100	13.1	50
85	Iron-catalyzed photoreduction of carbon dioxide to synthesis gas. *Catalysis Science and Technology*, **2016**, 6, 3623-3630	5.5	49
84	NNP-Type Pincer Imidazolylphosphine Ruthenium Complexes: Efficient Base-Free Hydrogenation of Aromatic and Aliphatic Nitriles under Mild Conditions. *Chemistry - A European Journal*, **2016**, 22, 4991-5002	4.8	48
83	Substitution-controlled excited state processes in heteroleptic copper(I) photosensitizers used in hydrogen evolving systems. *ChemPhysChem*, **2014**, 15, 3709-13	3.2	47
82	Eisencarbonyle: effiziente Katalysatoren f□ die lichtgetriebene Wasserstofferzeugung aus Wasser. *Angewandte Chemie*, **2009**, 121, 10147-10150	3.6	47
81	Renewable Methane Generation from Carbon Dioxide and Sunlight. *Angewandte Chemie - International Edition*, **2018**, 57, 44-45	16.4	45
80	Photocatalytic Hydrogen Production with Copper Photosensitizer□Titanium Dioxide Composites. *ChemCatChem*, **2014**, 6, 82-86	5.2	44
79	Base-free non-noble-metal-catalyzed hydrogen generation from formic acid: scope and mechanistic insights. *Chemistry - A European Journal*, **2014**, 20, 13589-602	4.8	42
78	Electron- and Energy-Transfer Processes in a Photocatalytic System Based on an Ir(III)-Photosensitizer and an Iron Catalyst. *Journal of Physical Chemistry Letters*, **2014**, 5, 1355-60	6.4	40
77	Simple and efficient iridium(III)-catalyzed water oxidations. *ChemSusChem*, **2011**, 4, 1598-600	8.3	38

76	Spin density distribution after electron transfer from triethylamine to an [Ir(ppy)2(bpy)]+ photosensitizer during photocatalytic water reduction. *Physical Chemistry Chemical Physics*, **2014**, 16, 4789-96	3.6	37
75	An efficient and convenient palladium catalyst system for the synthesis of amines from allylic alcohols. *ChemSusChem*, **2012**, 5, 2039-44	8.3	35
74	Improving Selectivity and Activity of CO2 Reduction Photocatalysts with Oxygen. *CheM*, **2019**, 5, 1818-1832	19.2	32
73	Hydrogen Storage in Formic Acid - Amine Adducts. *Chimia*, **2011**, 65, 214-218	1.3	32
72	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. *Angewandte Chemie*, **2017**, 129, 574-577	3.6	31
71	Hydrogen production from formic acid catalyzed by a phosphine free manganese complex: investigation and mechanistic insights. *Green Chemistry*, **2020**, 22, 913-920	10	31
70	Cyclopentadienone iron complexes as efficient and selective catalysts for the electroreduction of CO2 to CO. *Catalysis Science and Technology*, **2017**, 7, 459-465	5.5	30
69	Structure-Activated Copper Photosensitisers for Photocatalytic Water Reduction. *Chemistry - A European Journal*, **2017**, 23, 3631-3636	4.8	30
68	Heterogeneous nickel-catalysed reversible, acceptorless dehydrogenation of N-heterocycles for hydrogen storage. *Chemical Communications*, **2019**, 55, 4969-4972	5.8	30
67	Light to Hydrogen: Photocatalytic Hydrogen Generation from Water with Molecularly-Defined Iron Complexes. *Inorganics*, **2017**, 5, 14	2.9	30
66	Inner- versus Outer-Sphere Ru-Catalyzed Formic Acid Dehydrogenation: A Computational Study. *Organometallics*, **2013**, 32, 7053-7064	3.8	30
65	Cobalt-Catalyzed Aqueous Dehydrogenation of Formic Acid. *Chemistry - A European Journal*, **2019**, 25, 8459-8464	4.8	29
64	In situ photodeposition of copper nanoparticles on TiO2: Novel catalysts with facile light-induced redox cycling. *Journal of Catalysis*, **2016**, 340, 177-183	7.3	28
63	A Stable Nanocobalt Catalyst with Highly Dispersed CoNx Active Sites for the Selective Dehydrogenation of Formic Acid. *Angewandte Chemie*, **2017**, 129, 16843-16847	3.6	27
62	Advanced Charge Utilization from NaTaO3 Photocatalysts by Multilayer Reduced Graphene Oxide. *Chemistry of Materials*, **2014**, 26, 4705-4711	9.6	26
61	Orthometallierung in Eisen(0)-Tribenzylphosphan-Komplexen: aktivere Homogenkatalysatoren f□ die Wasserstofferzeugung aus Ameisens□re. *Angewandte Chemie*, **2010**, 122, 9177-9181	3.6	26
60	Ultrafast excited state dynamics of iridium(III) complexes and their changes upon immobilisation onto titanium dioxide layers. *Physical Chemistry Chemical Physics*, **2016**, 18, 10682-7	3.6	25
59	Iridium□PNP Pincer Complexes for Methanol Dehydrogenation at Low Base Concentration. *ChemCatChem*, **2017**, 9, 1891-1896	5.2	23

58	H2 Generation with (Mixed) Plasmonic Cu/Au-TiO2 Photocatalysts: Structure–Reactivity Relationships Assessed by in situ Spectroscopy. *ChemCatChem*, **2017**, 9, 1025-1031	5.2	23
57	Pinning of the Fermi Level in CuFeO2 by Polaron Formation Limiting the Photovoltage for Photochemical Water Splitting. *Advanced Functional Materials*, **2020**, 30, 1910432	15.6	23
56	Photochemical Reduction of Carbon Dioxide to Formic Acid using Ruthenium(II)-Based Catalysts and Visible Light. *ChemCatChem*, **2015**, 7, 3316-3321	5.2	23
55	Herstellung von Wasserstoff aus nachwachsenden Rohstoffen mit molekular definierten Katalysatoren. *Chemie-Ingenieur-Technik*, **2007**, 79, 741-753	0.8	23
54	Wasserreduktion mit sichtbarem Licht: In-situ-EPR-Spektroskopie zeigt die Synergie zwischen optischen Übergängen und Elektronentransfer in Au-TiO2-Katalysatoren. *Angewandte Chemie*, **2013**, 125, 11631-11635	3.6	22
53	Efficient Photocatalytic Water Reduction Using In Situ Generated Knölker–Iron Complexes. *ChemCatChem*, **2016**, 8, 2340-2344	5.2	20
52	Design of multicomponent aerogels and their performance in photocatalytic hydrogen production. *Catalysis Today*, **2015**, 246, 101-107	5.3	19
51	Einblicke in den Mechanismus der photokatalytischen Wasserreduktion durch DFT-gestützte In-situ-EPR/Raman-Spektroskopie. *Angewandte Chemie*, **2011**, 123, 10429-10433	3.6	19
50	Recent advances on TiO2-based photocatalytic CO2 reduction. *EnergyChem*, **2020**, 2, 100044	36.9	19
49	Catalytic Dehydrogenation of Formic Acid with Ruthenium-PNP-Pincer Complexes: Comparing N-Methylated and NH-Ligands. *ChemCatChem*, **2019**, 11, 1910-1914	5.2	19
48	Copper Photosensitizers Containing P^N Ligands and Their Influence on Photoactivity and Stability. *Chemistry - A European Journal*, **2017**, 23, 17432-17437	4.8	18
47	Copper-based water reduction catalysts for efficient light-driven hydrogen generation. *Journal of Molecular Catalysis A*, **2014**, 395, 449-456		18
46	Hetero Diels-Alder reaction between 2,3-dimethyl-1,3-butadiene and perfluorooctanonitrile under high pressure. *Tetrahedron*, **1998**, 54, 11027-11032	2.4	17
45	Heteroleptic copper(I) photosensitizers of dibenzo[b,j]-1,10-phenanthroline derivatives driven hydrogen generation from water reduction. *Dyes and Pigments*, **2016**, 134, 580-585	4.6	16
44	Iridium-catalyzed hydrogen production from monosaccharides, disaccharide, cellulose, and lignocellulose. *ChemSusChem*, **2015**, 8, 804-8	8.3	15
43	Remarkably long-lived excited states of copper photosensitizers containing an extended π-system based on an anthracene moiety. *Sustainable Energy and Fuels*, **2019**, 3, 692-700	5.8	14
42	An amino acid based system for CO capture and catalytic utilization to produce formates. *Chemical Science*, **2021**, 12, 6020-6024	9.4	14
41	Cyclometalated Ruthenium Pincer Complexes as Catalysts for the α-Alkylation of Ketones with Alcohols. *Chemistry - A European Journal*, **2020**, 26, 6050-6055	4.8	13

40	Highly Efficient Base-Free Dehydrogenation of Formic Acid at Low Temperature. *ChemSusChem*, **2018**, 11, 3092-3095	8.3	13
39	Thermally activated delayed fluorescence (TADF) dyes as efficient organic photosensitizers for photocatalytic water reduction. *Catalysis Communications*, **2019**, 119, 11-15	3.2	13
38	Shining light on low-temperature methanol aqueous-phase reforming using homogeneous Ru-pincer complexes operando Raman-GC studies. *Reaction Chemistry and Engineering*, **2017**, 2, 390-396	4.9	11
37	Morphology, Optical Properties and Photocatalytic Activity of Photo- and Plasma-Deposited Au and Au/Ag Core/Shell Nanoparticles on Titania Layers. *Nanomaterials*, **2018**, 8,	5.4	11
36	Influence of MoS2 on Activity and Stability of Carbon Nitride in Photocatalytic Hydrogen Production. *Catalysts*, **2019**, 9, 695	4	10
35	Enhancement of photocatalyic activity of dye sensitised anatase layers by application of a plasma-polymerized allylamine encapsulation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2014**, 290, 31-37	4.7	10
34	Ruthenium-Catalyzed Hydrogen Generation from Alcohols and Formic Acid, Including Ru-Pincer-Type Complexes. *Topics in Organometallic Chemistry*, **2014**, 45-79	0.6	10
33	Sunlight Selective Photodeposition of CoO(OH) and NiO(OH) on Truncated Bipyramidal BiVO for Highly Efficient Photocatalysis. *ACS Applied Materials & Interfaces*, **2020**,	9.5	10
32	Mechanistic Insights into the Electrochemical Reduction of CO2 Catalyzed by Iron Cyclopentadienone Complexes. *Organometallics*, **2019**, 38, 1236-1247	3.8	10
31	Developing Bicatalytic Cascade Reactions: Ruthenium-catalyzed Hydrogen Generation From Methanol. *Chemistry - A European Journal*, **2019**, 25, 9345-9349	4.8	9
30	Catalytic Utilization of Carbon Dioxide: Actual Status and Perspectives **2012**, 685-724		9
29	Reversible hydrogenation of carbon dioxide to formic acid using a Mn-pincer complex in the presence of lysine. *Nature Energy*, **2022**, 7, 438-447	62.3	9
28	Manganese(I) -NN complex-catalyzed formic acid dehydrogenation. *Catalysis Science and Technology*, **2020**, 10, 3931-3937	5.5	8
27	Diferrate [Fe (CO) (CO){P(aryl) }] as Self-Assembling Iron/Phosphor-Based Catalyst for the Hydrogen Evolution Reaction in Photocatalytic Proton Reduction-Spectroscopic Insights. *Chemistry - A European Journal*, **2018**, 24, 16052-16065	4.8	8
26	Lithiierte Siloxy-silylamino-silane Darstellung und Reaktionen mit Chlordimethylsilan. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1995**, 621, 909-919	1.3	8
25	Relations between Structure, Activity and Stability in C3N4 Based Photocatalysts Used for Solar Hydrogen Production. *Catalysts*, **2018**, 8, 52	4	8
24	Hydrogen Generation from Formic Acid and Alcohols **2013**, 587-603		7
23	Plasma Modification of Catalysts for Cathode Reduction of Hydrogen Peroxide in Fuel Cells. *Plasma Processes and Polymers*, **2007**, 4, S94-S98	3.4	7

22	N-Silylierung und Si?O-Bindungsspaltung bei der Reaktion lithiierter Siloxy-silylamino-silane mit Chlortrimethylsilan. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1996**, 622, 2065-2073	1.3	7
21	Two-photon, visible light water splitting at a molecular ruthenium complex. *Energy and Environmental Science*,	35.4	7
20	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie*, **2020**, 132, 15983-15988	3.6	6
19	Transferring photocatalytic CO2 reduction mediated by Cu(N^N)(P^P)+ complexes from organic solvents into ionic liquid media. *Green Chemistry*, **2020**, 22, 4541-4549	10	6
18	Addressing the Reproducibility of Photocatalytic Carbon Dioxide Reduction. *ChemCatChem*, **2020**, 12, 1603-1608	5.2	6
17	Dual functionality of formamidine polymers, as ligands and as bases, in ruthenium-catalysed hydrogen evolution from formic acid. *Polymer Chemistry*, **2013**, 4, 2741	4.9	5
16	Lithiumhydridosiloxysilylamide Reaktionen in n-Octan und Tetrahydrofuran in Gegenwart von Chlortrimethylsilan. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1997**, 623, 1475-1482	1.3	5
15	Immobilization of a selective Ru-pincer complex for low temperature methanol reforming Material and process improvements. *Catalysis Today*, **2020**, 342, 178-186	5.3	5
14	Effective quenching and excited-state relaxation of a Cu(I) photosensitizer addressed by time-resolved spectroscopy and TDDFT calculations. *Chemical Physics*, **2018**, 515, 557-563	2.3	5
13	Formic Acid Dehydrogenation by a Cyclometalated -CNN Ruthenium Complex. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1293-1299	2.3	4
12	Katalyse f die chemische Wasserstoffspeicherung. *Nachrichten Aus Der Chemie*, **2011**, 59, 1142-1146	0.1	4
11	Nachhaltige Produktion von Methan aus CO2 mithilfe von Sonnenlicht. *Angewandte Chemie*, **2018**, 130, 44-46	3.6	4
10	Homogeneous Carbon Capture and Catalytic Hydrogenation: Toward a Chemical Hydrogen Battery System. *Jacs Au*,		4
9	Site-Selective Real-Time Observation of Bimolecular Electron Transfer in a Photocatalytic System Using L-Edge X-Ray Absorption Spectroscopy*. *ChemPhysChem*, **2021**, 22, 693-700	3.2	3
8	HCOOH disproportionation to MeOH promoted by molybdenum PNP complexes. *Chemical Science*, **2021**, 12, 13101-13119	9.4	3
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6	Improving Selectivity and Activity of CO2 Reduction Photocatalysts with Oxygen. *CheM*, **2019**, 5, 2276	16.2	2
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