

# Erwin Reisner

## List of Publications by Year in descending order

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231  
papers

20,344  
citations

6840

81  
h-index

14012

133  
g-index

249  
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249  
docs citations

249  
times ranked

19470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electro- and Solar-Driven Fuel Synthesis with First Row Transition Metal Complexes. <i>Chemical Reviews</i> , 2019, 119, 2752-2875.	23.0	615
2	Solar Hydrogen Production Using Carbon Quantum Dots and a Molecular Nickel Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 6018-6025.	6.6	519
3	Solar-driven reforming of lignocellulose to H <sub>2</sub> with a CdS/CdOx photocatalyst. <i>Nature Energy</i> , 2017, 2, .	19.8	451
4	Selective Photocatalytic CO <sub>2</sub> Reduction in Water through Anchoring of a Molecular Ni Catalyst on CdS Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 7217-7223.	6.6	446
5	Carbon dots as photosensitisers for solar-driven catalysis. <i>Chemical Society Reviews</i> , 2017, 46, 6111-6123.	18.7	436
6	Visible Light-Driven H <sub>2</sub> Production by Hydrogenases Attached to Dye-Sensitized TiO <sub>2</sub> Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 18457-18466.	6.6	407
7	Efficient and Clean Photoreduction of CO <sub>2</sub> to CO by Enzyme-Modified TiO <sub>2</sub> Nanoparticles Using Visible Light. <i>Journal of the American Chemical Society</i> , 2010, 132, 2132-2133.	6.6	392
8	Towards molecular understanding of local chemical environment effects in electro- and photocatalytic CO <sub>2</sub> reduction. <i>Nature Catalysis</i> , 2020, 3, 775-786.	16.1	385
9	Interfacing nature's catalytic machinery with synthetic materials for semi-artificial photosynthesis. <i>Nature Nanotechnology</i> , 2018, 13, 890-899.	15.6	322
10	Photoreforming of Nonrecyclable Plastic Waste over a Carbon Nitride/Nickel Phosphide Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 15201-15210.	6.6	322
11	Dye-sensitised semiconductors modified with molecular catalysts for light-driven H <sub>2</sub> production. <i>Chemical Society Reviews</i> , 2016, 45, 9-23.	18.7	298
12	Plastic waste as a feedstock for solar-driven H <sub>2</sub> generation. <i>Energy and Environmental Science</i> , 2018, 11, 2853-2857.	15.6	286
13	Solar-Driven Reduction of Aqueous Protons Coupled to Selective Alcohol Oxidation with a Carbon Nitride-Molecular Ni Catalyst System. <i>Journal of the American Chemical Society</i> , 2016, 138, 9183-9192.	6.6	285
14	Dynamic electrochemical investigations of hydrogen oxidation and production by enzymes and implications for future technology. <i>Chemical Society Reviews</i> , 2009, 38, 36-51.	18.7	265
15	Current challenges of modeling diiron enzyme active sites for dioxygen activation by biomimetic synthetic complexes. <i>Chemical Society Reviews</i> , 2010, 39, 2768.	18.7	261
16	Cu <sub>2</sub> O NiOx nanocomposite as an inexpensive photocathode in photoelectrochemical water splitting. <i>Chemical Science</i> , 2012, 3, 3482.	3.7	240
17	Versatile Photocatalytic Systems for H <sub>2</sub> Generation in Water Based on an Efficient DuBois-Type Nickel Catalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 356-366.	6.6	228
18	Wiring of Photosystem II to Hydrogenase for Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 8541-8549.	6.6	228

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19	Digital Color in Cellulose Nanocrystal Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12302-12306.	4.0	222
20	Al-doped ZnO inverse opal networks as efficient electron collectors in BiVO <sub>4</sub> photoanodes for solar water oxidation. <i>Energy and Environmental Science</i> , 2014, 7, 1402-1408.	15.6	220
21	Solar Hydrogen Generation from Lignocellulose. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3290-3296.	7.2	215
22	Structure-Activity Relationships for NAMI-A-type Complexes (HL)[trans-RuCl <sub>4</sub> (S-dmso)ruthenate(III)] (L = Imidazole, Indazole, 1,2,4-Triazole, 4-Amino-1,2,4-triazole, and 1-Methyl-1,2,4-triazole): A Quation, Redox Properties, Protein Binding, and Antiproliferative Activity. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 2185-2193.	2.9	206
23	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 510-514.	7.2	204
24	Enhancing Light Absorption and Charge Transfer Efficiency in Carbon Dots through Graphitization and Core Nitrogen Doping. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6459-6463.	7.2	201
25	Reversible Interconversion of CO <sub>2</sub> and Formate by a Molybdenum-Containing Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2014, 136, 15473-15476.	6.6	200
26	Photoelectrochemical Water Oxidation with Photosystem II Integrated in a Mesoporous Indium-Tin Oxide Electrode. <i>Journal of the American Chemical Society</i> , 2012, 134, 8332-8335.	6.6	199
27	Redox behavior of tumor-inhibiting ruthenium(III) complexes and effects of physiological reductants on their binding to GMP. <i>Dalton Transactions</i> , 2006, , 1796.	1.6	197
28	Bias-free photoelectrochemical water splitting with photosystem II on a dye-sensitized photoanode wired to hydrogenase. <i>Nature Energy</i> , 2018, 3, 944-951.	19.8	192
29	Carbon Dots as Versatile Photosensitizers for Solar-Driven Catalysis with Redox Enzymes. <i>Journal of the American Chemical Society</i> , 2016, 138, 16722-16730.	6.6	189
30	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. <i>Nature Chemistry</i> , 2020, 12, 82-89.	6.6	189
31	Tuning Product Selectivity for Aqueous CO <sub>2</sub> Reduction with a Mn(bipyridine)-pyrene Catalyst Immobilized on a Carbon Nanotube Electrode. <i>Journal of the American Chemical Society</i> , 2017, 139, 14425-14435.	6.6	185
32	Photocatalytic H <sub>2</sub> evolution from neutral water with a molecular cobalt catalyst on a dye-sensitized TiO <sub>2</sub> nanoparticle. <i>Chemical Communications</i> , 2011, 47, 1695.	2.2	180
33	Electron-transfer activated metal-based anticancer drugs. <i>Inorganica Chimica Acta</i> , 2008, 361, 1569-1583.	1.2	177
34	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 11219-11229.	6.6	177
35	Bias-free solar syngas production by integrating a molecular cobalt catalyst with perovskite-BiVO <sub>4</sub> tandems. <i>Nature Materials</i> , 2020, 19, 189-194.	13.3	175
36	Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11538-11542.	7.2	170

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37	Metal-encapsulated organolead halide perovskite photocathode for solar-driven hydrogen evolution in water. <i>Nature Communications</i> , 2016, 7, 12555.	5.8	165
38	Catalytic electrochemistry of a [NiFeSe]-hydrogenase on TiO <sub>2</sub> and demonstration of its suitability for visible-light driven H <sub>2</sub> production. <i>Chemical Communications</i> , 2009, , 550-552.	2.2	160
39	Tuning of Redox Potentials for the Design of Ruthenium Anticancer Drugs – an Electrochemical Study of [trans-RuCl <sub>4</sub> L(DMSO)]- and [trans-RuCl <sub>4</sub> L <sub>2</sub> ]-Complexes, where L = Imidazole, 1,2,4-Triazole, Indazole. <i>Inorganic Chemistry</i> , 2004, 43, 7083-7093.	1.9	159
40	Solar-driven reforming of solid waste for a sustainable future. <i>Nature Sustainability</i> , 2021, 4, 383-391.	11.5	158
41	Semi-biological approaches to solar-to-chemical conversion. <i>Chemical Society Reviews</i> , 2020, 49, 4926-4952.	18.7	157
42	Redox-Active Antineoplastic Ruthenium Complexes with Indazole: A Correlation of in Vitro Potency and Reduction Potential. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2831-2837.	2.9	156
43	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. <i>Nature Energy</i> , 2020, 5, 703-710.	19.8	156
44	Plasmonic Enhancement in BiVO <sub>4</sub> Photonic Crystals for Efficient Water Splitting. <i>Small</i> , 2014, 10, 3970-3978.	5.2	152
45	Protein film photoelectrochemistry of the water oxidation enzyme photosystem II. <i>Chemical Society Reviews</i> , 2014, 43, 6485-6497.	18.7	148
46	Photoreforming of Lignocellulose into H <sub>2</sub> Using Nanoengineered Carbon Nitride under Benign Conditions. <i>Journal of the American Chemical Society</i> , 2018, 140, 11604-11607.	6.6	148
47	Advancing photosystem II photoelectrochemistry for semi-artificial photosynthesis. <i>Nature Reviews Chemistry</i> , 2020, 4, 6-21.	13.8	146
48	Solar-driven reduction of aqueous CO <sub>2</sub> with a cobalt bis(terpyridine)-based photocathode. <i>Nature Catalysis</i> , 2019, 2, 354-365.	16.1	145
49	Improving the Photocatalytic Reduction of CO <sub>2</sub> to CO through Immobilisation of a Molecular Re Catalyst on TiO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2015, 21, 3746-3754.	1.7	141
50	Rational wiring of photosystem II to hierarchical indium tin oxide electrodes using redox polymers. <i>Energy and Environmental Science</i> , 2016, 9, 3698-3709.	15.6	140
51	Electrocatalytic and Solar-Driven CO <sub>2</sub> Reduction to CO with a Molecular Manganese Catalyst Immobilized on Mesoporous TiO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7388-7392.	7.2	138
52	Bifunctional Iron-Only Electrodes for Efficient Water Splitting with Enhanced Stability through In Situ Electrochemical Regeneration. <i>Advanced Energy Materials</i> , 2016, 6, 1502095.	10.2	136
53	Visible-Light-Driven CO <sub>2</sub> Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12180-12184.	7.2	135
54	Time-Resolved IR Spectroscopy Reveals a Mechanism with TiO <sub>2</sub> as a Reversible Electron Acceptor in a TiO <sub>2</sub> -Re Catalyst System for CO <sub>2</sub> Photoreduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 1226-1232.	6.6	129

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55	Scalable Triple Cation Mixed Halide Perovskiteâ€“BiVO <sub>4</sub> Tandems for Biasâ€Free Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801403.	10.2	128
56	ZnSe quantum dots modified with a Ni(cyclam) catalyst for efficient visible-light driven CO <sub>2</sub> reduction in water. <i>Chemical Science</i> , 2018, 9, 2501-2509.	3.7	127
57	Photocatalytic Hydrogen Evolution with a Hydrogenase in a Mediatorâ€Free System under High Levels of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12313-12316.	7.2	125
58	Selective Reduction of Aqueous Protons to Hydrogen with a Synthetic Cobaloxime Catalyst in the Presence of Atmospheric Oxygen. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9381-9384.	7.2	123
59	Strategies to improve light utilization in solar fuel synthesis. <i>Nature Energy</i> , 2022, 7, 13-24.	19.8	120
60	Photoelectrochemical hydrogen production in water using a layer-by-layer assembly of a Ru dye and Ni catalyst on NiO. <i>Chemical Science</i> , 2016, 7, 5537-5546.	3.7	119
61	Reactions of Synthetic [2Fe-2S] and [4Fe-4S] Clusters with Nitric Oxide and Nitrosothiols. <i>Journal of the American Chemical Society</i> , 2008, 130, 15602-15610.	6.6	116
62	Interfacing Formate Dehydrogenase with Metal Oxides for the Reversible Electrocatalysis and Solarâ€Driven Reduction of Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4601-4605.	7.2	115
63	Immobilization of a Molecular Cobaloxime Catalyst for Hydrogen Evolution on a Mesoporous Metal Oxide Electrode. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12749-12753.	7.2	112
64	Electron Transfer in Dyeâ€Sensitised Semiconductors Modified with Molecular Cobalt Catalysts: Photoreduction of Aqueous Protons. <i>Chemistry - A European Journal</i> , 2012, 18, 15464-15475.	1.7	112
65	Covalent Immobilization of Oriented Photosystem II on a Nanostructured Electrode for Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 10610-10613.	6.6	112
66	Photoreduction of CO <sub>2</sub> with a Formate Dehydrogenase Driven by Photosystem II Using a Semi-artificial Z-Scheme Architecture. <i>Journal of the American Chemical Society</i> , 2018, 140, 16418-16422.	6.6	111
67	Parameters affecting electron transfer dynamics from semiconductors to molecular catalysts for the photochemical reduction of protons. <i>Energy and Environmental Science</i> , 2013, 6, 3291.	15.6	108
68	Enhancing H <sub>2</sub> evolution performance of an immobilised cobalt catalyst by rational ligand design. <i>Chemical Science</i> , 2015, 6, 2727-2736.	3.7	104
69	Ligand removal from CdS quantum dots for enhanced photocatalytic H <sub>2</sub> generation in pH neutral water. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2856-2862.	5.2	103
70	[NiFeSe]-Hydrogenase Chemistry. <i>Accounts of Chemical Research</i> , 2015, 48, 2858-2865.	7.6	101
71	Carbon nitrideâ€TiO <sub>2</sub> hybrid modified with hydrogenase for visible light driven hydrogen production. <i>Chemical Science</i> , 2015, 6, 5690-5694.	3.7	99
72	Photoelectrochemical H <sub>2</sub> Evolution with a Hydrogenase Immobilized on a TiO <sub>2</sub> -Protected Silicon Electrode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5971-5974.	7.2	98

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73	Photoelectrochemistry of Photosystem II <i>in Vitro</i> vs <i>in Vivo</i> . Journal of the American Chemical Society, 2018, 140, 6-9.	6.6	98
74	Photocatalytic Formic Acid Conversion on CdS Nanocrystals with Controllable Selectivity for H <sub>2</sub> or CO. Angewandte Chemie - International Edition, 2015, 54, 9627-9631.	7.2	96
75	ZnSe Nanorods as Visible-Light Absorbers for Photocatalytic and Photoelectrochemical H <sub>2</sub> Evolution in Water. Angewandte Chemie - International Edition, 2019, 58, 5059-5063.	7.2	96
76	Synthesis, X-ray Diffraction Structures, Spectroscopic Properties, and <i>in vitro</i> Antitumor Activity of Isomeric (1H-1,2,4-Triazole)Ru(III) Complexes. Inorganic Chemistry, 2003, 42, 6024-6031.	1.9	94
77	Clean Donor Oxidation Enhances the H <sub>2</sub> Evolution Activity of a Carbon Quantum Dot-Molecular Catalyst Photosystem. Angewandte Chemie - International Edition, 2016, 55, 9402-9406.	7.2	93
78	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. Angewandte Chemie - International Edition, 2018, 57, 10595-10599.	7.2	93
79	Precious-metal free photoelectrochemical water splitting with immobilised molecular Ni and Fe redox catalysts. Chemical Science, 2016, 7, 4024-4035.	3.7	91
80	A Poly(cobaloxime)/Carbon Nanotube Electrode: Freestanding Buckypaper with Polymer-Enhanced H <sub>2</sub> -Evolution Performance. Angewandte Chemie - International Edition, 2016, 55, 3952-3957.	7.2	86
81	Development and understanding of cobaloxime activity through electrochemical molecular catalyst screening. Physical Chemistry Chemical Physics, 2014, 16, 5739-5746.	1.3	85
82	Photoelectrocatalytic H <sub>2</sub> evolution in water with molecular catalysts immobilised on p-Si via a stabilising mesoporous TiO <sub>2</sub> interlayer. Chemical Science, 2017, 8, 5172-5180.	3.7	85
83	Solar Hydrogen Evolution with Hydrogenases: From Natural to Hybrid Systems. European Journal of Inorganic Chemistry, 2011, 2011, 1005-1016.	1.0	80
84	Photoelectrochemical reduction of aqueous protons with a CuO CuBi <sub>2</sub> O <sub>4</sub> heterojunction under visible light irradiation. Physical Chemistry Chemical Physics, 2014, 16, 22462-22465.	1.3	78
85	Tuning of Redox Properties for the Design of Ruthenium Anticancer Drugs: Part 2. Syntheses, Crystal Structures, and Electrochemistry of Potentially Antitumor [Ru(II)Cl <sub>6</sub> -n(Azole) <sub>n</sub> ] <sub>z</sub> (n= 3, 4, 6) Complexes. Inorganic Chemistry, 2005, 44, 6704-6716.	1.9	77
86	Multifunctional Coatings from Scalable Single Source Precursor Chemistry in Tandem Photoelectrochemical Water Splitting. Advanced Energy Materials, 2015, 5, 1501668.	10.2	73
87	Solar H <sub>2</sub> evolution in water with modified diketopyrrolopyrrole dyes immobilised on molecular Co and Ni catalyst-TiO <sub>2</sub> hybrids. Chemical Science, 2017, 8, 3070-3079.	3.7	73
88	Catalysis by design: development of a bifunctional water splitting catalyst through an operando measurement directed optimization cycle. Chemical Science, 2018, 9, 5322-5333.	3.7	73
89	Oxygen-tolerant proton reduction catalysis: much O <sub>2</sub> about nothing?. Energy and Environmental Science, 2015, 8, 2283-2295.	15.6	72
90	Light-Driven H <sub>2</sub> Evolution and C-S or C-O Bond Hydrogenation by <i>Shewanella oneidensis</i> : A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. ACS Catalysis, 2017, 7, 7558-7566.	5.5	72

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91	Solar Reforming of Biomass with Homogeneous Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18184-18188.	7.2	70
92	Oxidation-State-Dependent Binding Properties of the Active Site in a Mo-Containing Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2017, 139, 9927-9936.	6.6	69
93	Integration of a Hydrogenase in a Lead Halide Perovskite Photoelectrode for Tandem Solar Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 232-237.	8.8	68
94	Solar H <sub>2</sub> generation in water with a CuCrO <sub>2</sub> photocathode modified with an organic dye and molecular Ni catalyst. <i>Chemical Science</i> , 2018, 9, 1439-1447.	3.7	62
95	Carbon nitride as a heterogeneous visible-light photocatalyst for the Minisci reaction and coupling to H <sub>2</sub> production. <i>Chemical Communications</i> , 2019, 55, 14007-14010.	2.2	62
96	A Precious-Metal-Free Hybrid Electrolyzer for Alcohol Oxidation Coupled to CO <sub>2</sub> to Syngas Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15633-15641.	7.2	62
97	Cobalt sulphide microtube array as cathode in photoelectrochemical water splitting with photoanodes. <i>Chemical Science</i> , 2014, 5, 4906-4913.	3.7	61
98	Structure-Activity Relationships of Hierarchical Three-Dimensional Electrodes with Photosystem II for Semiartificial Photosynthesis. <i>Nano Letters</i> , 2019, 19, 1844-1850.	4.5	61
99	Visible-Light Promoted C=O Bond Formation with an Integrated Carbon Nitride-Nickel Heterogeneous Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8494-8499.	7.2	61
100	Reactions of Potent Antitumor Complex trans-[Ru(III)Cl <sub>4</sub> (indazole) <sub>2</sub> ]- with a DNA-Relevant Nucleobase and Thioethers: Insight into Biological Action. <i>Inorganic Chemistry</i> , 2005, 44, 122-132.	1.9	59
101	Facile assembly of an efficient CoO <sub>x</sub> water oxidation electrocatalyst from Co-containing polyoxotitanate nanocages. <i>Chemical Communications</i> , 2013, 49, 4331-4333.	2.2	59
102	Advancing Techniques for Investigating the Enzyme-Electrode Interface. <i>Accounts of Chemical Research</i> , 2019, 52, 1439-1448.	7.6	59
103	Disparity of Cytochrome Utilization in Anodic and Cathodic Extracellular Electron Transfer Pathways of <i>Geobacter sulfurreducens</i> Biofilms. <i>Journal of the American Chemical Society</i> , 2020, 142, 5194-5203.	6.6	59
104	Electrocatalytic and Solar-Driven Reduction of Aqueous CO <sub>2</sub> with Molecular Cobalt Phthalocyanine-Metal Oxide Hybrid Materials. <i>ACS Catalysis</i> , 2021, 11, 1868-1876.	5.5	59
105	An Electrochemical Study of Antineoplastic Gallium, Iron and Ruthenium Complexes with Redox Noninnocent $\pm$ -N-Heterocyclic Chalcogenemicarbazones. <i>Inorganic Chemistry</i> , 2008, 47, 11032-11047.	1.9	57
106	Conversion of Polyethylene Waste into Gaseous Hydrocarbons via Integrated Tandem Chemical-Photo/Electrocatalytic Processes. <i>ACS Catalysis</i> , 2021, 11, 9159-9167.	5.5	57
107	Bridging Plastic Recycling and Organic Catalysis: Photocatalytic Deconstruction of Polystyrene via a C-H Oxidation Pathway. <i>ACS Catalysis</i> , 2022, 12, 8155-8163.	5.5	57
108	Formation of Ti <sub>28</sub> Ln Cages, the Highest Nuclearity Polyoxotitanates (Ln=La, Ce). <i>Chemistry - A European Journal</i> , 2012, 18, 11867-11870.	1.7	56

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109	Water-Gas Shift Reaction Catalyzed by Redox Enzymes on Conducting Graphite Platelets. <i>Journal of the American Chemical Society</i> , 2009, 131, 14154-14155.	6.6	55
110	Scalable Photocatalyst Panels for Photoreforming of Plastic, Biomass and Mixed Waste in Flow. <i>ChemSusChem</i> , 2021, 14, 4190-4197.	3.6	55
111	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie</i> , 2017, 129, 525-529.	1.6	54
112	Photocatalytic hydrogen generation coupled to pollutant utilisation using carbon dots produced from biomass. <i>Green Chemistry</i> , 2020, 22, 2831-2839.	4.6	54
113	Distance dependent charge separation and recombination in semiconductor/molecular catalyst systems for water splitting. <i>Chemical Communications</i> , 2014, 50, 12768-12771.	2.2	53
114	Competing charge transfer pathways at the photosystem II-electrode interface. <i>Nature Chemical Biology</i> , 2016, 12, 1046-1052.	3.9	53
115	Encapsulation of a "naked" Br <sup>-</sup> anion in a polyoxotitanate host. <i>Chemical Science</i> , 2012, 3, 2470.	3.7	52
116	Proton reduction by molecular catalysts in water under demanding atmospheres. <i>Chemical Communications</i> , 2014, 50, 15995-15998.	2.2	52
117	Interfacial Engineering of a Carbon Nitride-Graphene Oxide-Molecular Ni Catalyst Hybrid for Enhanced Photocatalytic Activity. <i>ACS Catalysis</i> , 2018, 8, 6914-6926.	5.5	52
118	Enhancing Light Absorption and Charge Transfer Efficiency in Carbon Dots through Graphitization and Core Nitrogen Doping. <i>Angewandte Chemie</i> , 2017, 129, 6559-6563.	1.6	51
119	Reforming of Soluble Biomass and Plastic Derived Waste Using a Bias-Free Cu <sub>30</sub> Pd <sub>70</sub>   Perovskite   Pt Photoelectrochemical Device. <i>Advanced Functional Materials</i> , 2022, 32, 2109313.	7.8	51
120	Synthesis and Reactivity of the Aquation Product of the Antitumor Complex <i>trans</i> -[Ru <sup>III</sup> Cl <sub>4</sub> (indazole) <sub>2</sub> ] <sup>+</sup> . <i>Inorganic Chemistry</i> , 2008, 47, 6513-6523.	1.9	50
121	Unravelling the pH-dependence of a molecular photocatalytic system for hydrogen production. <i>Chemical Science</i> , 2015, 6, 4855-4859.	3.7	50
122	Understanding Immobilized Molecular Catalysts for Fuel-Forming Reactions through UV/Vis Spectroelectrochemistry. <i>ACS Catalysis</i> , 2017, 7, 3131-3141.	5.5	50
123	Fast CO <sub>2</sub> hydration kinetics impair heterogeneous but improve enzymatic CO <sub>2</sub> reduction catalysis. <i>Nature Chemistry</i> , 2022, 14, 417-424.	6.6	50
124	Rational Design of Polymers for Selective CO <sub>2</sub> Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7697-7701.	7.2	49
125	Visible-Light-Driven CO <sub>2</sub> Reduction by Mesoporous Carbon Nitride Modified with Polymeric Cobalt Phthalocyanine. <i>Angewandte Chemie</i> , 2019, 131, 12308-12312.	1.6	48
126	When Does Organic Photoredox Catalysis Meet Artificial Photosynthesis?. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3656-3657.	7.2	48



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127	A three-dimensional hybrid electrode with electroactive microbes for efficient electrogensis and chemical synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5074-5080.	3.3	48
128	Roadmap towards solar fuel synthesis at the water interface of liposome membranes. Chemical Society Reviews, 2021, 50, 4833-4855.	18.7	48
129	Photoelectrochemical hybrid cell for unbiased CO <sub>2</sub> reduction coupled to alcohol oxidation. , 2022, 1, 77-86.		48
130	Single-Source Bismuth (Transition Metal) Polyoxovanadate Precursors for the Scalable Synthesis of Doped BiVO <sub>4</sub> Photoanodes. Advanced Materials, 2018, 30, e1804033.	11.1	47
131	Synthesis, structure and reactivity of Ni site models of [NiFeSe] hydrogenases. Dalton Transactions, 2014, 43, 4483-4493.	1.6	46
132	A TiO <sub>2</sub> @Co(terpyridine) <sub>2</sub> Photocatalyst for the Selective Oxidation of Cellulose to Formate Coupled to the Reduction of CO <sub>2</sub> to Syngas. Angewandte Chemie - International Edition, 2021, 60, 23306-23312.	7.2	45
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