Curtis Berlinguette

List of Publications by Year
in descending order

173	15,256	17405 63	18606 119
papers	citations	h-index	g-index

183	183	183	14456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photochemical Route for Accessing Amorphous Metal Oxide Materials for Water Oxidation Catalysis. Science, 2013, 340, 60-63.	6.0	1,321
2	Water Oxidation Catalysis: Electrocatalytic Response to Metal Stoichiometry in Amorphous Metal Oxide Films Containing Iron, Cobalt, and Nickel. Journal of the American Chemical Society, 2013, 135, 11580-11586.	6.6	817
3	Electrolytic CO₂ Reduction in a Flow Cell. Accounts of Chemical Research, 2018, 51, 910-918.	7.6	735
4	Molecular electrocatalysts can mediate fast, selective CO ₂ reduction in a flow cell. Science, 2019, 365, 367-369.	6.0	601
5	Electrochemical evidence for catalytic water oxidation mediated by a high-valent cobalt complex. Chemical Communications, 2011, 47, 4249.	2.2	343
6	CO2 electrochemical catalytic reduction with a highly active cobalt phthalocyanine. Nature Communications, 2019, 10, 3602.	5.8	307
7	Self-driving laboratory for accelerated discovery of thin-film materials. Science Advances, 2020, 6, eaaz8867.	4.7	306
8	Electronic Modification of the [Ru^{II}(tpy)(bpy)(OH₂)]²⁺ Scaffold: Effects on Catalytic Water Oxidation. Journal of the American Chemical Society, 2010, 132, 16094-16106.	6.6	299
9	Cyclometalated ruthenium chromophores for the dye-sensitized solar cell. Coordination Chemistry Reviews, 2012, 256, 1438-1450.	9.5	275
10	Electrolysis of Gaseous CO₂ to CO in a Flow Cell with a Bipolar Membrane. ACS Energy Letters, 2018, 3, 149-154.	8.8	265
11	Gas diffusion electrodes and membranes for CO2 reduction electrolysers. Nature Reviews Materials, 2022, 7, 55-64.	23.3	265
12	Insight into Water Oxidation by Mononuclear Polypyridyl Ru Catalysts. Inorganic Chemistry, 2010, 49, 2202-2209.	1.9	256
13	An industrial perspective on catalysts for low-temperature CO2 electrolysis. Nature Nanotechnology, 2021, 16, 118-128.	15.6	255
14	Electrocatalytic Alloys for CO₂ Reduction. ChemSusChem, 2018, 11, 48-57.	3.6	249
15	Electrolysis of CO₂ to Syngas in Bipolar Membrane-Based Electrochemical Cells. ACS Energy Letters, 2016, 1, 1149-1153.	8.8	235
16	On the Viability of Cyclometalated Ru(II) Complexes for Light-Harvesting Applications. Inorganic Chemistry, 2009, 48, 9631-9643.	1.9	224
17	Designing anion exchange membranes for CO2 electrolysers. Nature Energy, 2021, 6, 339-348.	19.8	209
18	Bis(tridentate) Rutheniumâ€"Terpyridine Complexes Featuring Microsecond Excited-State Lifetimes. Journal of the American Chemical Society, 2012, 134, 12354-12357.	6.6	206

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19	Facile Photochemical Preparation of Amorphous Iridium Oxide Films for Water Oxidation Catalysis. Chemistry of Materials, 2014, 26, 1654-1659.	3.2	201
20	A Charge-Transfer-Induced Spin Transition in the Discrete Cyanide-Bridged Complex {[Co(tmphen)2]3[Fe(CN)6]2}. Journal of the American Chemical Society, 2004, 126, 6222-6223.	6.6	200
21	Homogeneous water oxidation catalysts containing a single metal site. Chemical Communications, 2013, 49, 218-227.	2.2	184
22	Design and Development of Functionalized Cyclometalated Ruthenium Chromophores for Light-Harvesting Applications. Inorganic Chemistry, 2011, 50, 5494-5508.	1.9	180
23	Electrolytic Conversion of Bicarbonate into CO in a Flow Cell. Joule, 2019, 3, 1487-1497.	11.7	177
24	A Charge-Transfer-Induced Spin Transition in a Discrete Complex:Â The Role of Extrinsic Factors in Stabilizing Three Electronic Isomeric Forms of a Cyanide-Bridged Co/Fe Cluster. Journal of the American Chemical Society, 2005, 127, 6766-6779.	6.6	156
25	Complete electron economy by pairing electrolysis with hydrogenation. Nature Catalysis, 2018, 1, 501-507.	16.1	148
26	External-Stimuli Responsive Photophysics and Liquid Crystal Properties of Self-Assembled â€œPhosphole-Lipidsâ€. Journal of the American Chemical Society, 2011, 133, 17014-17026.	6.6	146
27	Curing BiVO₄ Photoanodes with Ultraviolet Light Enhances Photoelectrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 1769-1772.	7.2	138
28	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	23.3	136
29	Atomic Level Resolution of Dye Regeneration in the Dye-Sensitized Solar Cell. Journal of the American Chemical Society, 2013, 135, 1961-1971.	6.6	133
30	Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie - International Edition, 2017, 56, 6068-6072.	7.2	131
31	pH Matters When Reducing CO₂ in an Electrochemical Flow Cell. ACS Energy Letters, 2020, 5, 3101-3107.	8.8	131
32	Cyclometalated Ru Complexes of Type [Ru^{II}(<i>N^{â^§}N</i>)₂(<i>C^{â^§}N</i>)]^{<i>z</i>}: Physicochemical Response to Substituents Installed on the Anionic Ligand. Inorganic Chemistry, 2010, 49, 4960-4971.	1.9	127
33	A Trisheteroleptic Cyclometalated Ru^{II} Sensitizer that Enables High Power Output in a Dyeâ€Sensitized Solar Cell. Angewandte Chemie - International Edition, 2011, 50, 10682-10685.	7.2	127
34	Interrogation of electrocatalytic water oxidation mediated by a cobalt complex. Chemical Communications, 2012, 48, 2107.	2.2	127
35	Stabilization of Ruthenium Sensitizers to TiO₂ Surfaces through Cooperative Anchoring Groups. Journal of the American Chemical Society, 2013, 135, 1692-1695.	6.6	123
36	Photoelectrochemical oxidation of organic substrates in organic media. Nature Communications, 2017, 8, 390.	5.8	123

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37	Voltage Matters When Reducing CO₂ in an Electrochemical Flow Cell. ACS Energy Letters, 2020, 5, 215-220.	8.8	123
38	Strain Engineering Electrocatalysts for Selective CO₂ Reduction. ACS Energy Letters, 2019, 4, 980-986.	8.8	115
39	Managing Hydration at the Cathode Enables Efficient CO₂ Electrolysis at Commercially Relevant Current Densities. ACS Energy Letters, 2020, 5, 1612-1618.	8.8	111
40	Unraveling the Roles of the Acid Medium, Experimental Probes, and Terminal Oxidant, (NH₄)₂[Ce(NO₃)₆], in the Study of a Homogeneous Water Oxidation Catalyst. Inorganic Chemistry, 2011, 50, 3662-3672.	1.9	107
41	On the Electrolytic Stability of Iron-Nickel Oxides. CheM, 2017, 2, 590-597.	5.8	104
42	Cycloruthenated sensitizers: improving the dye-sensitized solar cell with classical inorganic chemistry principles. Dalton Transactions, 2012, 41, 7814.	1.6	101
43	Kinetic pathway for interfacial electron transfer from a semiconductor to a molecule. Nature Chemistry, 2016, 8, 853-859.	6.6	96
44	Facets and vertices regulate hydrogen uptake and release in palladium nanocrystals. Nature Materials, 2019, 18, 454-458.	13.3	96
45	Photodeposited Amorphous Oxide Films for Electrochromic Windows. CheM, 2018, 4, 821-832.	5.8	95
46	Curing BiVO₄ Photoanodes with Ultraviolet Light Enhances Photoelectrocatalysis. Angewandte Chemie, 2016, 128, 1801-1804.	1.6	94
47	Electrolytic CO₂ Reduction in Tandem with Oxidative Organic Chemistry. ACS Central Science, 2017, 3, 778-783.	5.3	93
48	Accounting for the Dynamic Oxidative Behavior of Nickel Anodes. Journal of the American Chemical Society, 2016, 138, 1561-1567.	6.6	91
49	Systematic Manipulation of the Light-Harvesting Properties for Tridentate Cyclometalated Ruthenium(II) Complexes. Inorganic Chemistry, 2009, 48, 9644-9652.	1.9	90
50	Efficient Electrocatalytic Hydrogenation with a Palladium Membrane Reactor. Journal of the American Chemical Society, 2019, 141, 7815-7821.	6.6	90
51	Dopant-free molecular hole transport material that mediates a 20% power conversion efficiency in a perovskite solar cell. Energy and Environmental Science, 2019, 12, 3502-3507.	15.6	90
52	Electrodes Designed for Converting Bicarbonate into CO. ACS Energy Letters, 2020, 5, 2165-2173.	8.8	90
53	Quantification of water transport in a CO₂ electrolyzer. Energy and Environmental Science, 2020, 13, 5126-5134.	15.6	86
54	Strategies for Optimizing the Performance of Cyclometalated Ruthenium Sensitizers for Dyeâ€Sensitized Solar Cells. European Journal of Inorganic Chemistry, 2011, 2011, 1806-1814.	1.0	84

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55	Conversion of Bicarbonate to Formate in an Electrochemical Flow Reactor. ACS Energy Letters, 2020, 5, 2624-2630.	8.8	84
56	Physicochemical Analysis of Ruthenium(II) Sensitizers of 1,2,3-Triazole-Derived Mesoionic Carbene and Cyclometalating Ligands. Inorganic Chemistry, 2014, 53, 2083-2095.	1.9	81
57	Role of the Orbitally Degenerate Mn(III) Ions in the Single-Molecule Magnet Behavior of the Cyanide Cluster {[MnII(tmphen)2]3[MnIII(CN)6]2} (tmphen = 3,4,7,8-tetramethyl-1,10-phenanthroline). Journal of the American Chemical Society, 2004, 126, 16860-16867.	6.6	78
58	Trigonal-Bipyramidal Metal Cyanide Complexes: A Versatile Platform for the Systematic Assessment of the Magnetic Properties of Prussian Blue Materials. Inorganic Chemistry, 2009, 48, 3438-3452.	1.9	78
59	Organic chemistry at anodes and photoanodes. Sustainable Energy and Fuels, 2018, 2, 1905-1927.	2.5	76
60	Electrolytic deuteration of unsaturated bonds without using D2. Nature Catalysis, 2020, 3, 719-726.	16.1	71
61	Initial synthesis and structure of an all-ferrous analogue of the fully reduced [Fe4S4]0 cluster of the nitrogenase iron protein. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9741-9744.	3.3	70
62	Recognition of Topological Isomerism:â€‰ Synthesis, Structure, and Magnetic Properties of Two Pentanuclear High-Spin Molecules of the Type [NiII(N-N)2]3[FeIII(CN)6]2. Inorganic Chemistry, 2003, 42, 3416-3422.	1.9	65
63	A Heteroleptic Bis(tridentate) Ruthenium(II) Platform Featuring an Anionic 1,2,3-Triazolate-Based Ligand for Application in the Dye-Sensitized Solar Cell. Inorganic Chemistry, 2014, 53, 1637-1645.	1.9	65
64	Halogen Bonding Promotes Higher Dye-Sensitized Solar Cell Photovoltages. Journal of the American Chemical Society, 2016, 138, 10406-10409.	6.6	65
65	Water oxidation catalysis: an amorphous quaternary Ba-Sr-Co-Fe oxide as a promising electrocatalyst for the oxygen-evolution reaction. Chemical Communications, 2016, 52, 1513-1516.	2.2	63
66	Triphenylamine-Modified Ruthenium(II) Terpyridine Complexes: Enhancement of Light Absorption by Conjugated Bridging Motifs. Inorganic Chemistry, 2010, 49, 5335-5337.	1.9	61
67	Porous metal electrodes enable efficient electrolysis of carbon capture solutions. Energy and Environmental Science, 2022, 15, 705-713.	15.6	61
68	Systematic Modulation of a Bichromic Cyclometalated Ruthenium(II) Scaffold Bearing a Redox-Active Triphenylamine Constituent. Inorganic Chemistry, 2011, 50, 6019-6028.	1.9	59
69	A comparison of several nanoscale photocatalysts in the degradation of a common pollutant using LEDs and conventional UV light. Water Research, 2009, 43, 4499-4506.	5.3	56
70	Solution growth of anatase TiO2 nanowires from transparent conducting glass substrates. Journal of Materials Chemistry, 2010, 20, 5063.	6.7	55
71	A self-driving laboratory advances the Pareto front for material properties. Nature Communications, 2022, 13, 995.	5.8	55
72	Intramolecular and Lateral Intermolecular Hole Transfer at the Sensitized TiO₂ Interface. Journal of the American Chemical Society, 2014, 136, 1034-1046.	6.6	54

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73	Linking gas diffusion electrode composition to CO₂ reduction in a flow cell. Journal of Materials Chemistry A, 2020, 8, 19493-19501.	5.2	54
74	Simple Protocol for Generating TiO2 Nanofibers in Organic Media. Chemistry of Materials, 2008, 20, 7022-7030.	3.2	52
75	Ï€ covalency in the halogen bond. Nature Communications, 2020, 11, 3310.	5.8	52
76	Molecular Catalysts Boost the Rate of Electrolytic CO₂ Reduction. ACS Energy Letters, 2020, 5, 1512-1518.	8.8	52
77	Structural Characterization, Magnetic Properties, and Electrospray Mass Spectrometry of Two Jahnâ˘Teller Isomers of the Single-Molecule Magnet [Mn12O12(CF3COO)16(H2O)4]. Inorganic Chemistry, 2004, 43, 1359-1369.	1.9	51
78	Solâ€“gel synthesis of linear Sn-doped TiO₂nanostructures. Journal of Materials Chemistry, 2010, 20, 498-503.	6.7	50
79	Rapid prototyping of electrolyzer flow field plates. Energy and Environmental Science, 2016, 9, 3417-3423.	15.6	49
80	Near-infraredâ€“driven decomposition of metal precursors yields amorphous electrocatalytic films. Science Advances, 2015, 1, e1400215.	4.7	48
81	Mapping the performance of amorphous ternary metal oxide water oxidation catalysts containing aluminium. Journal of Materials Chemistry A, 2015, 3, 756-761.	5.2	48
82	Revisiting the cold case of cold fusion. Nature, 2019, 570, 45-51.	13.7	48
83	Ruthenium(II) Complexes Bearing a Naphthalimide Fragment: A Modular Dye Platform for the Dye-Sensitized Solar Cell. Inorganic Chemistry, 2013, 52, 3001-3006.	1.9	47
84	How a [Co^{IV}${^{underline{.....}}}$O]²⁺ Fragment Oxidizes Water: Involvement of a Biradicaloid [Co^{II}â€“(â‹…Oâ‹…)]²⁺ Species in Forming the Oï£¿O Bond ChemSusChem, 2015, 8, 844-852.	3.6	46
85	Edge-Bridged Mo2Fe6S8to PN-Type Mo2Fe6S9Cluster Conversion:Â Structural Fate of the Attacking Sulfide/Selenide Nucleophile. Journal of the American Chemical Society, 2006, 128, 11993-12000.	6.6	43
86	Brass and Bronze as Effective CO₂ Reduction Electrocatalysts. Angewandte Chemie - International Edition, 2017, 56, 16579-16582.	7.2	43
87	Rhenium Complexes of Pyridyl-Mesoionic Carbenes: Photochemical Properties and Electrocatalytic CO₂ Reduction. Inorganic Chemistry, 2020, 59, 4215-4227.	1.9	43
88	Ru complexes of thienyl-functionalized dipyrrins as NCS-free sensitizers for the dye-sensitized solar cell. Chemical Communications, 2012, 48, 8790.	2.2	41
89	Precise Control of Thermal and Redox Properties of Organic Holeâ€Transport Materials. Angewandte Chemie - International Edition, 2018, 57, 15529-15533.	7.2	41
90	Intramolecular Hole Transfer at Sensitized TiO₂ Interfaces. Journal of the American Chemical Society, 2012, 134, 8352-8355.	6.6	40

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91	Evidence for Interfacial Halogen Bonding. Angewandte Chemie - International Edition, 2016, 55, 5956-5960.	7.2	40
92	Continuum Model to Define the Chemistry and Mass Transfer in a Bicarbonate Electrolyzer. ACS Energy Letters, 2022, 7, 834-842.	8.8	39
93	Synthesis of MFe3S4Clusters Containing a Planar MIISite (M = Ni, Pd, Pt), a Structural Element in the C-Cluster of Carbon Monoxide Dehydrogenase. Journal of the American Chemical Society, 2005, 127, 11092-11101.	6.6	38
94	Precursors to Clusters with the Topology of the PNCluster of Nitrogenase:Â Edge-Bridged Double Cubane Clusters [(Tp)2Mo2Fe6S8L4]z:Â Synthesis, Structures, and Electron Transfer Series. Inorganic Chemistry, 2006, 45, 1997-2007.	1.9	37
95	Near-IR Photoresponse of Ruthenium Dipyrrinate Terpyridine Sensitizers in the Dye-Sensitized Solar Cells. Inorganic Chemistry, 2014, 53, 5417-5419.	1.9	37
96	Novel triphenylamine-modified ruthenium(ii) terpyridine complexes for nickel oxide-based cathodic dye-sensitized solar cells. RSC Advances, 2014, 4, 5782.	1.7	37
97	Selective hydrogenation of furfural using a membrane reactor. Energy and Environmental Science, 2022, 15, 215-224.	15.6	37
98	Examination of Water Oxidation by Catalysts Containing Cofacial Metal Sites. European Journal of Inorganic Chemistry, 2010, 2010, 3135-3142.	1.0	36
99	Solution-Deposited Solid-State Electrochromic Windows. IScience, 2018, 10, 80-86.	1.9	36
100	Three is not a crowd: efficient sensitization of TiO2 by a bulky trichromic trisheteroleptic cycloruthenated dye. Chemical Communications, 2012, 48, 5599.	2.2	35
101	Cyclometalated Ruthenium(II) Complexes Featuring Tridentate Clickâ€Derived Ligands for Dyeâ€Sensitized Solar Cell Applications. Chemistry - A European Journal, 2013, 19, 14171-14180.	1.7	35
102	Spectroscopic detection of halogen bonding resolves dye regeneration in the dye-sensitized solar cell. Nature Communications, 2017, 8, 1761.	5.8	35
103	Flexible automation accelerates materials discovery. Nature Materials, 2022, 21, 722-726.	13.3	33
104	Conversion of Reactive Carbon Solutions into CO at Low Voltage and High Carbon Efficiency. ACS Central Science, 2022, 8, 749-755.	5.3	32
105	Impact of Alkali Cation Identity on the Conversion of HCO₃^{âˆ’} to CO in Bicarbonate Electrolyzers. ChemElectroChem, 2021, 8, 2094-2100.	1.7	29
106	Stabilization of Reduced Molybdenumâˆ’Ironâˆ’Sulfur Single- and Double-Cubane Clusters by Cyanide Ligation. Inorganic Chemistry, 2007, 46, 510-516.	1.9	28
107	Structural Characteristics and Eutaxy in the Photo-Deposited Amorphous Iron Oxide Oxygen Evolution Catalyst. Chemistry of Materials, 2015, 27, 3462-3470.	3.2	28
108	Highâ€Throughput Synthesis of Mixedâ€Metal Electrocatalysts for CO₂ Reduction. Angewandte Chemie, 2017, 129, 6164-6168.	1.6	28

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109	Kinetics teach that electronic coupling lowers the free-energy change that accompanies electron transfer. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7248-7253.	3.3	28
110	Hydrogenation without H2 Using a Palladium Membrane Flow Cell. Cell Reports Physical Science, 2020, 1, 100105.	2.8	28
111	Strain Influences the Hydrogen Evolution Activity and Absorption Capacity of Palladium. Angewandte Chemie - International Edition, 2020, 59, 12192-12198.	7.2	28
112	Optical Intramolecular Electron Transfer in Opposite Directions through the Same Bridge That Follows Different Pathways. Journal of the American Chemical Society, 2018, 140, 7176-7186.	6.6	27
113	Accurate Coulometric Quantification of Hydrogen Absorption in Palladium Nanoparticles and Thin Films. Chemistry of Materials, 2018, 30, 3963-3970.	3.2	27
114	Exposure of WO₃ Photoanodes to Ultraviolet Light Enhances Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 25010-25013.	4.0	26
115	Supported palladium membrane reactor architecture for electrocatalytic hydrogenation. Journal of Materials Chemistry A, 2019, 7, 26586-26595.	5.2	26
116	Derivatization of Bichromic Cyclometalated Ru(II) Complexes with Hydrophobic Substituents. Inorganic Chemistry, 2012, 51, 1501-1507.	1.9	25
117	Comparative analysis of triarylamine and phenothiazine sensitizer donor units in dye-sensitized solar cells. Chemical Communications, 2017, 53, 2367-2370.	2.2	25
118	Photodeposited ruthenium dioxide films for oxygen evolution reaction electrocatalysis. Journal of Materials Chemistry A, 2017, 5, 1575-1580.	5.2	24
119	Trisâ€Heteroleptic Rutheniumâ€"Dipyrrinate Chromophores in a Dyeâ€Sensitized Solar Cell. Chemistry - A European Journal, 2015, 21, 2173-2181.	1.7	23
120	Protocol for Quantifying the Doping of Organic Hole-Transport Materials. ACS Energy Letters, 2019, 4, 2547-2551.	8.8	23
121	Electrolytic Methane Production from Reactive Carbon Solutions. ACS Energy Letters, 2022, 7, 1712-1718.	8.8	23
122	On How Experimental Conditions Affect the Electrochemical Response of Disordered Nickel Oxyhydroxide Films. Chemistry of Materials, 2016, 28, 5635-5642.	3.2	22
123	Stabilizing Copper for CO₂ Reduction in Low-Grade Electrolyte. Inorganic Chemistry, 2018, 57, 14624-14631.	1.9	21
124	Correlating cobalt redox couples to photovoltage in the dye-sensitized solar cell. Dalton Transactions, 2018, 47, 11942-11952.	1.6	21
125	Direct Spectroscopic Evidence for Constituent Heteroatoms Enhancing Charge Recombination at a TiO₂â^'Ruthenium Dye Interface. Journal of Physical Chemistry C, 2014, 118, 17079-17089.	1.5	20
126	Design rules for high mobility xanthene-based hole transport materials. Chemical Science, 2019, 10, 8360-8366.	3.7	20

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127	How Catalyst Dispersion Solvents Affect CO₂ Electrolyzer Gas Diffusion Electrodes. Energy & Fuels, 2021, 35, 19178-19184.	2.5	20
128	Quantification of the Effect of an External Magnetic Field on Water Oxidation with Cobalt Oxide Anodes. Journal of the American Chemical Society, 2022, 144, 733-739.	6.6	20
129	Proton-coupled electron transfer at a [Co-OHx]zunit in aqueous media: evidence for a concerted mechanism. Chemical Science, 2013, 4, 734-738.	3.7	19
130	Resolving orbital pathways for intermolecular electron transfer. Nature Communications, 2018, 9, 4916.	5.8	19
131	Water Oxidation Catalysis: Tuning the Electrocatalytic Properties of Amorphous Lanthanum Cobaltite through Calcium Doping. ACS Catalysis, 2017, 7, 6385-6391.	5.5	18
132	Ligands Affect Hydrogen Absorption and Desorption by Palladium Nanoparticles. Chemistry of Materials, 2019, 31, 8679-8684.	3.2	18
133	Quantifying defects in thin films using machine vision. Npj Computational Materials, 2020, 6, .	3.5	18
134	Physical Separation of H₂ Activation from Hydrogenation Chemistry Reveals the Specific Role of Secondary Metal Catalysts. Angewandte Chemie - International Edition, 2021, 60, 11937-11942.	7.2	18
135	Water Oxidation Catalysis: Survey of Amorphous Binary Metal Oxide Films Containing Lanthanum and Late 3d Transition Metals. European Journal of Inorganic Chemistry, 2014, 2014, 660-664.	1.0	17
136	Photodecomposition of Metal Nitrate and Chloride Compounds Yields Amorphous Metal Oxide Films. Journal of the American Chemical Society, 2017, 139, 18174-18177.	6.6	17
137	Photoelectrochemical Decomposition of Lignin Model Compound on a BiVO₄ Photoanode. ChemSusChem, 2020, 13, 3622-3626.	3.6	17
138	Structural diversity of cyanide-bridged bimetallic clusters based on hexacyanometallate building blocks. Comptes Rendus Chimie, 2002, 5, 665-672.	0.2	15
139	Synthesis, Characterization, and Physical Properties of Two Trinuclear, Mixed-Valence Species of Type [Î¼3-OMnIIMnIII2(O2CCF3)6(R)3] (R=H2O, CH3COOH). Journal of Cluster Science, 2003, 14, 235-252.	1.7	15
140	Substitution Effects on the Water Oxidation of Ruthenium Catalysts: A Quantum-Chemical Look. Journal of Physical Chemistry C, 2015, 119, 242-250.	1.5	15
141	Brass and Bronze as Effective CO₂ Reduction Electrocatalysts. Angewandte Chemie, 2017, 129, 16806-16809.	1.6	15
142	Precise Control of Thermal and Redox Properties of Organic Holeâ€Transport Materials. Angewandte Chemie, 2018, 130, 15755-15759.	1.6	15
143	Permeability Matters When Reducing CO₂ in an Electrochemical Flow Cell. ACS Energy Letters, 2022, 7, 2382-2387.	8.8	15
144	A self-driving laboratory designed to accelerate the discovery of adhesive materials. , 2022, 1, 382-389.		14

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145	Electrolytic conversion of carbon capture solutions containing carbonic anhydrase. Journal of Inorganic Biochemistry, 2022, 231, 111782.	1.5	13
146	High-Voltage Dye-Sensitized Solar Cells Mediated by [Co(2,2â€²-bipyrimidine)₃]^{<i>z</i>}. Inorganic Chemistry, 2017, 56, 2383-2386.	1.9	12
147	Kinetic phases of Agâ€“Cu alloy films are accessible through photodeposition. Journal of Materials Chemistry A, 2019, 7, 711-715.	5.2	12
148	Structureâ€“property relationships of acylated asymmetric dithienophospholes. Comptes Rendus Chimie, 2010, 13, 971-979.	0.2	11
149	Evidence for Interfacial Halogen Bonding. Angewandte Chemie, 2016, 128, 6060-6064.	1.6	11
150	Rapid Quantification of Film Thickness and Metal Loading for Electrocatalytic Metal Oxide Films. Chemistry of Materials, 2017, 29, 7272-7277.	3.2	11
151	Electrolysis Can Be Used to Resolve Hydrogenation Pathways at Palladium Surfaces in a Membrane Reactor. Jacs Au, 2021, 1, 336-343.	3.6	11
152	A machine vision tool for facilitating the optimization of large-area perovskite photovoltaics. Npj Computational Materials, 2021, 7, .	3.5	11
153	Ring walking as a regioselectivity control element in Pd-catalyzed C-N cross-coupling. Nature Communications, 2022, 13, .	5.8	11
154	Regioselective Câ€“H Activation of Cyclometalated Bis-Tridentate Ruthenium Complexes. Organometallics, 2011, 30, 6628-6635.	1.1	10
155	Electrocatalysts Derived from Copper Complexes Transform CO into C₂₊ Products Effectively in a Flow Cell. Chemistry - A European Journal, 2022, 28, e202200340.	1.7	10
156	Strain Influences the Hydrogen Evolution Activity and Absorption Capacity of Palladium. Angewandte Chemie, 2020, 132, 12290-12296.	1.6	9
157	On how electron density affects the redox stability of phenothiazine sensitizers on semiconducting surfaces. Chemical Communications, 2017, 53, 2547-2550.	2.2	8
158	Entropic Barriers Determine Adiabatic Electron Transfer Equilibrium. Journal of Physical Chemistry C, 2019, 123, 3416-3425.	1.5	8
159	Donorâ€“Ï€â€“acceptor organic hybrid TiO2 interfaces for solar energy conversion. Thin Solid Films, 2014, 560, 49-54.	0.8	7
160	Spinâ€coated epoxy resin embedding technique enables facile SEM/FIB thickness determination of porous metal oxide ultraâ€thin films. Journal of Microscopy, 2018, 270, 302-308.	0.8	6
161	Tracking precursor degradation during the photo-induced formation of amorphous metal oxide films. Journal of Materials Chemistry A, 2018, 6, 4544-4549.	5.2	6
162	Editorial for the ACS Select Virtual Issue on Inorganic Chemistry Driving the Energy Sciences. Inorganic Chemistry, 2015, 54, 3079-3083.	1.9	5

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163	High-temperature high-pressure calorimeter for studying gram-scale heterogeneous chemical reactions. Review of Scientific Instruments, 2017, 88, 084101.	0.6	5
164	Analytical electrolyzer enabling operando characterization of flow plates. Review of Scientific Instruments, 2019, 90, 074103.	0.6	5
165	Sulfuric Acid Electrolyte Impacts Palladium Chemistry at Reductive Potentials. Chemistry of Materials, 2020, 32, 9098-9106.	3.2	5
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