Shigeyuki Masaoka

List of Publications by Year
in descending order

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117	3,951	126907	138484
papers	citations	33 h-index	58 g-index

133	133	133	4103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A pentanuclear iron catalyst designed for water oxidation. Nature, 2016, 530, 465-468.	27.8	395
2	Reaction-Temperature-Dependent Supramolecular Isomerism of Coordination Networks Based on the Organometallic Building Block[CuI2(Î¼2-BQ)(Î¼2-OAc)2]. Angewandte Chemie - International Edition, 2004, 43, 2530-2534.	13.8	217
3	Clear Evidence Showing the Robustness of a Highly Active Oxygen-evolving Mononuclear Ruthenium Complex with an Aqua Ligand. Chemistry Letters, 2009, 38, 182-183.	1.3	206
4	Hybrid Catalysis Enabling Room-Temperature Hydrogen Gas Release from N-Heterocycles and Tetrahydronaphthalenes. Journal of the American Chemical Society, 2017, 139, 2204-2207.	13.7	165
5	Catalysis of Mononuclear Aquaruthenium Complexes in Oxygen Evolution from Water: A New Radical Coupling Path using Hydroxocerium(IV) Species. Chemistry - an Asian Journal, 2010, 5, 2369-2378.	3.3	115
6	Metal complexes of hexaazatriphenylene (hat) and its derivativesâ€"from oligonuclear complexes to coordination polymers. Coordination Chemistry Reviews, 2003, 246, 73-88.	18.8	104
7	Design of molecular water oxidation catalysts with earth-abundant metal ions. Chemical Society Reviews, 2021, 50, 6790-6831.	38.1	102
8	Evidence for Pt(II)-Based Molecular Catalysis in the Thermal Reduction of Water into Molecular Hydrogen. Journal of the American Chemical Society, 2009, 131, 8404-8406.	13.7	96
9	Kinetics and DFT studies on wateroxidation by Ce4+ catalyzed by [Ru(terpy)(bpy)(OH2)]2+. Chemical Communications, 2012, 48, 239-241.	4.1	95
10	Tuning of Redox Potentials by Introducing a Cyclometalated Bond to Bis-tridentate Ruthenium(II) Complexes Bearing Bis(N-methylbenzimidazolyl)benzene or -pyridine Ligands. Inorganic Chemistry, 2012, 51, 890-899.	4.0	88
11	Photo-hydrogen-evolving activity of chloro(terpyridine)platinum(ii): a single-component molecular photocatalyst. Dalton Transactions, 2009, , 6127.	3.3	81
12	Oxygen Evolution from Water Catalyzed by Mononuclear Ruthenium Complexes with a Triazamacrocyclic Ligand in a Facial Fashion. Chemistry Letters, 2009, 38, 702-703.	1.3	76
13	Photoinduced Hydrogen Evolution from Water by a Simple Platinum(II) Terpyridine Derivative: A Zâ€Scheme Photosynthesis. Angewandte Chemie - International Edition, 2012, 51, 7431-7434.	13.8	75
14	A New Class of Cyclic Hexamer: [Co6L6]24â^' (H6L=hexaazatriphenylene hexacarboxylic acid). Angewandte Chemie - International Edition, 2001, 40, 3817-3819.	13.8	62
15	Function-Integrated Ru Catalyst for Photochemical CO₂ Reduction. Journal of the American Chemical Society, 2018, 140, 16899-16903.	13.7	60
16	C(sp³)â^'H Cyanation Promoted by Visibleâ€Light Photoredox/Phosphate Hybrid Catalysis. Chemistry - A European Journal, 2018, 24, 8051-8055.	3.3	59
17	Frontier orbital engineering of photo-hydrogen-evolving molecular devices: a clear relationship between the H2-evolving activity and the energy level of the LUMO. Dalton Transactions, 2010, 39, 5868.	3.3	56
18	Electronic Coupling between Two Cyclometalated Ruthenium Centers Bridged by 1,3,6,8-Tetrakis(1-butyl-1H-1,2,3-triazol-4-yl)pyrene. Inorganic Chemistry, 2011, 50, 7074-7079.	4.0	56

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19	Platinum(II)â€Based Hydrogenâ€Evolving Catalysts Linked to Multipendant Viologen Acceptors: Experimental and DFT Indications for Bimolecular Pathways. Chemistry - A European Journal, 2011, 17, 1148-1162.	3.3	56
20	Semiconductive Nature of Lead-Based Metalâ€“Organic Frameworks with Three-Dimensionally Extended Sulfur Secondary Building Units. Journal of the American Chemical Society, 2020, 142, 27-32.	13.7	51
21	Effect of the Metal-Assisted Assembling Mode on the Redox States of Hexaazatriphenylene Hexacarbonitrile. Angewandte Chemie - International Edition, 2005, 44, 2700-2704.	13.8	50
22	Water Oxidation Catalysts Constructed by Biorelevant First-row Metal Complexes. Chemistry Letters, 2016, 45, 1220-1231.	1.3	50
23	Oxygen Evolution Catalyzed by a Mononuclear Ruthenium Complex Bearing Pendant SO₃^{â^’} Groups. Angewandte Chemie - International Edition, 2015, 54, 7981-7984.	13.8	49
24	Photoâ€Hydrogenâ€Evolving Molecular Catalysts Consisting of Polypyridyl Ruthenium(II) Photosensitizers and Platinum(II) Catalysts: Insights into the Reaction Mechanism. Chemistry - an Asian Journal, 2010, 5, 1860-1869.	3.3	46
25	Photochemical and thermal hydrogen production from water catalyzed by carboxylate-bridged dirhodium(ii) complexes. Dalton Transactions, 2010, 39, 11218.	3.3	45
26	Porous Coordination Polymer with Ï€ Lewis Acidic Pore Surfaces, {[Cu3(CN)3{hat(CN)3(OEt)3}]â‹…3â€‰THF}n. Angewandte Chemie - International Edition, 2006, 45, 4628-4631.	13.8	43
27	Photoinduced electron transfer in tris(2,2â€²-bipyridine)ruthenium(ii)-viologen dyads with peptide backbones leading to long-lived charge separation and hydrogen evolution. Dalton Transactions, 2010, 39, 4421.	3.3	40
28	Electrocatalytic Water Oxidation by a Tetranuclear Copper Complex. ChemPlusChem, 2016, 81, 1123-1128.	2.8	40
29	Pentanuclear iron catalysts for water oxidation: substituents provide two routes to control onset potentials. Chemical Science, 2019, 10, 4628-4639.	7.4	39
30	Acid/base-regulated reversible electron transfer disproportionation of Nâ€“N linked bicarbazole and biacridine derivatives. Chemical Science, 2015, 6, 4160-4173.	7.4	37
31	Light-induced charge separation and photocatalytic hydrogen evolution from water using RuIIPtII-based molecular devices: Effects of introducing additional donor and/or acceptor sites. Dalton Transactions, 2011, 40, 3955.	3.3	35
32	Photocatalytic redox-neutral hydroxyalkylation of N-heteroaromatics with aldehydes. Chemical Science, 2020, 11, 12206-12211.	7.4	35
33	A facile and versatile preparation of bilindiones and biladienones from tetraarylporphyrins. Chemical Communications, 2005, , 1309.	4.1	33
34	Influence of Ligand Flexibility on the Electronic Structure of Oxidized Ni^{III}-Phenoxide Complexes. Inorganic Chemistry, 2014, 53, 10195-10202.	4.0	33
35	A mononuclear ruthenium complex showing multiple proton-coupled electron transfer toward multi-electron transfer reactions. Dalton Transactions, 2012, 41, 13081.	3.3	32
36	Tuning of Metalâ€“Metal Interactions in Mixed-Valence States of Cyclometalated Dinuclear Ruthenium and Osmium Complexes Bearing Tetrapyridylpyrazine or -benzene. Organometallics, 2014, 33, 4893-4904.	2.3	31

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37	Low-overpotential CO₂ reduction by a phosphine-substituted Ru(<scp>ii</scp>) polypyridyl complex. Chemical Communications, 2018, 54, 6915-6918.	4.1	30
38	Chemical Reaction-Inspired Crystal Growth of a Coordination Polymer toward Morphology Design and Control. Journal of the American Chemical Society, 2006, 128, 15799-15808.	13.7	29
39	Quick and Easy Method to Dramatically Improve the Electrochemical CO₂ Reduction Activity of an Iron Porphyrin Complex. Angewandte Chemie - International Edition, 2021, 60, 22070-22074.	13.8	29
40	Novel Cu(I) Dinuclear Complexes Containing Î¼2-Î·2,Î·2-Type Benzoquinone Ligand. Journal of the American Chemical Society, 2003, 125, 1152-1153.	13.7	28
41	Synthesis, crystal structure, spectroscopic and electrochemical properties, and H2-evolving activity of a new [PtCl(terpyridine)]+ derivative with viologen-like redox properties. Dalton Transactions, 2012, 41, 4903.	3.3	28
42	Syntheses and CO2 reduction activities of Ï€-expanded/extended iron porphyrin complexes. Journal of Biological Inorganic Chemistry, 2017, 22, 713-725.	2.6	28
43	Design of Mononuclear Ruthenium Catalysts for Lowâ€Overpotential Water Oxidation. Chemistry - an Asian Journal, 2015, 10, 306-315.	3.3	27
44	Metal Oxidation States for the Oâ€“O Bond Formation in the Water Oxidation Catalyzed by a Pentanuclear Iron Complex. ACS Catalysis, 2018, 8, 11671-11678.	11.2	26
45	Synthesis, crystal structure, solution and spectroscopic properties, and hydrogen-evolving activity of [K(18-crown-6)][Pt(ii)(2-phenylpyridinato)Cl2]. Photochemical and Photobiological Sciences, 2009, 8, 196-203.	2.9	25
46	Protonâ€Induced Tuning of Metalâ€“Metal Communication in Rackâ€Type Dinuclear Ru Complexes Containing Benzimidazolyl Moieties. Chemistry - A European Journal, 2011, 17, 6954-6963.	3.3	25
47	The first example of regiospecific magnesium carbenoid 1,3-CH insertion: its mechanism and stereochemistry. Tetrahedron Letters, 2007, 48, 5017-5021.	1.4	24
48	Syntheses, Characterization, and Photo-Hydrogen-Evolving Properties of Tris(2,2'-bipyridine)ruthenium(II) Derivatives Tethered to an H2-Evolving (2-phenylpyridinato)platinum(II) Unit. Molecules, 2010, 15, 4908-4923.	3.8	24
49	Selfâ€Assembly of Tubular Microstructures from Mixedâ€Valence Metal Complexes and Their Reversible Transformation by External Stimuli. Angewandte Chemie - International Edition, 2012, 51, 656-659.	13.8	24
50	Electrochemical Behavior of Phosphine-Substituted Ruthenium(II) Polypyridine Complexes with a Single Labile Ligand. Inorganic Chemistry, 2014, 53, 7214-7226.	4.0	23
51	Syntheses, characterization, and photochemical properties of amidate-bridged Pt(bpy) dimers tethered to Ru(bpy)32+ derivatives. Dalton Transactions, 2011, 40, 3967.	3.3	22
52	Electrocatalytic O2 Evolution from Water at an ITO Electrode Modified with [Ru(terpy){4,4â€²-(CH2PO3H2)2-2,2â€²-bpy}(OH2)]2+: Evidence for a Unimolecular Pathway. Chemistry Letters, 2010, 39, 1146-1148.	1.3	21
53	Titania may produce abiotic oxygen atmospheres on habitable exoplanets. Scientific Reports, 2015, 5, 13977.	3.3	21
54	Molecular photo-charge-separators enabling single-pigment-driven multi-electron transfer and storage leading to H₂ evolution from water. Inorganic Chemistry Frontiers, 2016, 3, 671-680.	6.0	21

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55	Operando Observation of Sulfur Species Poisoning Polymer Electrolyte Fuel Cell Studied by Near Ambient Pressure Hard X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 603-611.	3.1	21
56	Areneâ€“perfluoroarene interactions for crystal engineering of metal complexes: Controlled self-assembly of paddle-wheel dimers. CrystEngComm, 2013, 15, 6122.	2.6	20
57	Regulation of a cerium(<scp>iv</scp>)-driven O₂ evolution reaction using composites of liposome and lipophilic ruthenium complexes. Dalton Transactions, 2015, 44, 15126-15129.	3.3	19
58	Unveiling Latent Photoreactivity of Imines. Angewandte Chemie - International Edition, 2020, 59, 3665-3670.	13.8	19
59	Pentanuclear Scaffold: A Molecular Platform for Small-Molecule Conversions. Accounts of Chemical Research, 2020, 53, 2140-2151.	15.6	18
60	Three Distinct Redox States of an Oxoâ€Bridged Dinuclear Ruthenium Complex. Angewandte Chemie - International Edition, 2014, 53, 11519-11523.	13.8	17
61	Syntheses and properties of phosphine-substituted ruthenium(<scp>ii</scp>) polypyridine complexes with nitrogen oxides. Dalton Transactions, 2015, 44, 17189-17200.	3.3	17
62	Development of a framework catalyst for photocatalytic hydrogen evolution. Chemical Communications, 2018, 54, 1174-1177.	4.1	17
63	Kinetic Resolution of Pâ€Chirogenic Compounds by Palladiumâ€Catalyzed Alcoholysis of Vinyl Ethers. Advanced Synthesis and Catalysis, 2009, 351, 1796-1800.	4.3	16
64	Dispersed Ru nanoclusters transformed from a grafted trinuclear Ru complex on SiO2 for selective alcohol oxidation. Dalton Transactions, 2013, 42, 12611.	3.3	15
65	Oxygen Evolution Catalyzed by a Mononuclear Ruthenium Complex Bearing Pendant SO₃^{â^'} Groups. Angewandte Chemie, 2015, 127, 8092-8095.	2.0	15
66	Hydrogen Production from Water Catalyzed by an Air-stable Di-iron Complex with a Bio-relevant Fe2(Î¼-S)2 Core. Chemistry Letters, 2009, 38, 434-435.	1.3	14
67	Synthesis and characterization of self-assembled coordination polymers of N-diaminomethylene-4-(3-formyl-4-hydroxy-phenylazo)-benzenesulfonamide. Journal of Coordination Chemistry, 2012, 65, 780-794.	2.2	14
68	Porous frameworks constructed by non-covalent linking of substitution-inert metal complexes. Dalton Transactions, 2015, 44, 15334-15342.	3.3	14
69	Electrochemical analysis of iron-porphyrin-catalyzed CO2 reduction under photoirradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 143-148.	3.9	14
70	Stability of Pt(ii)-based H2-evolving catalysts against H2 in aqueous solution. Dalton Transactions, 2011, 40, 12447.	3.3	13
71	Electrochemical Polymerization Provides a Functionâ€Integrated System for Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 5965-5969.	13.8	13
72	Modulation of Selfâ€Assembly Enhances the Catalytic Activity of Iron Porphyrin for CO₂ Reduction. Small, 2021, 17, e2006150.	10.0	13

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73	Effect of metal ion substitution on the catalytic activity of a pentanuclear metal complex. Dalton Transactions, 2020, 49, 1384-1387.	3.3	12
74	A Catalytic Alkylation of Ketones via sp³ Câ€“H Bond Activation. Journal of Organic Chemistry, 2023, 88, 6333-6346.	3.2	12
75	A Mixedâ€Valence [Mn^{II}Mn^{III}Mn^{II}] Complex of a Linear Phenolâ€“bis(pyrazole) Ligand with an S = 3 Spin Ground State. European Journal of Inorganic Chemistry, 2008, 2008, 3871-3876.	2.0	11
76	Electrochemical response of metal complexes in homogeneous solution under photoirradiation. Scientific Reports, 2014, 4, 5327.	3.3	11
77	Cerium(IV)-driven oxidation of water catalyzed by mononuclear ruthenium complexes. Research on Chemical Intermediates, 2014, 40, 3169-3182.	2.7	10
78	Quick and Easy Method to Dramatically Improve the Electrochemical CO 2 Reduction Activity of an Iron Porphyrin Complex. Angewandte Chemie, 2021, 133, 22241-22245.	2.0	10
79	Preparation, Characterization, Biological Activity and 3D Molecular Modeling of Mn(II), Co(II), Ni(II), Cu(II), Pd(II) and Ru(III) Complexes of Some Sulfadrug Schiff Bases. Chinese Journal of Chemistry, 2012, 30, 881-890.	4.9	9
80	Room-Temperature Benzylic Alkylation of Benzylic Carbonates: Improvement of Palladium Catalyst and Mechanistic Study. Organic Process Research and Development, 2019, 23, 1568-1579.	2.7	9
81	Hydrogen-bonded frameworks of propylenediamine-N,Nâ€²-diacetic acid Pt(II) complexes, synthesis, structural characterization, and antitumor activity. Journal of Coordination Chemistry, 2014, 67, 943-955.	2.2	8
82	Chlorido(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (sulfoxide-ÎºS)[2-(2-pyridyl)phenyl-Îº²N,C Crystallographica Section E: Structure Reports Online, 2008, 64, m1325-m1325.	0.2	8
83	Copper(<scp>ii</scp>) tetrakis(pentafluorophenyl)porphyrin: highly active copper-based molecular catalysts for electrochemical CO₂ reduction. Chemical Communications, 2022, 58, 2975-2978.	4.1	8
84	4-[(3-Formyl-4-hydroxyphenyl)diazenyl]-N-(pyrimidin-2-yl)benzenesulfonamide. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1673-o1674.	0.2	7
85	A New Class of Cyclic Hexamer: [Co(6)L(6)](24-) (H(6)L=hexaazatriphenylene hexacarboxylic acid). Angewandte Chemie - International Edition, 2001, 40, 3817-3819.	13.8	7
86	Visible light-driven CO₂ reduction with a Ru polypyridyl complex bearing an N-heterocyclic carbene moiety. Chemical Communications, 2022, 58, 5229-5232.	4.1	7
87	cis-Dichlorobis(4-methylpyridine-ÎºN)platinum(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m97-m99.	0.2	6
88	Bis(triethylammonium) bis(Î¼-pyrazine-2,3-dithiolato)bis(pyrazine-2,3-dithiolato)diferrate(III) methanol disolvate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m77-m78.	0.2	6
89	Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395.	3.2	6
90	Near-IR Light-Induced Electron Transfer via Dynamic Quenching. Journal of Physical Chemistry C, 2018, 122, 11282-11287.	3.1	6

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91	Fe, Ru, and Os complexes with the same molecular framework: comparison of structures, properties and catalytic activities. Faraday Discussions, 2017, 198, 181-196.	3.2	5
92	Electrochemical Polymerization Provides a Functionâ€Integrated System for Water Oxidation. Angewandte Chemie, 2021, 133, 6030-6034.	2.0	5
93	Dirhodium-Based Supramolecular Framework Catalyst for Visible-Light-Driven Hydrogen Evolution. Inorganic Chemistry, 2021, 60, 12634-12643.	4.0	5
94	Photoconductive Coordination Polymer with a Leadâ€“Sulfur Two-Dimensional Coordination Sheet Structure. Inorganic Chemistry, 2021, 60, 5436-5441.	4.0	4
95	Diaqua(1,4,7,10,13-pentaoxacyclopentadecane)iron(II) bis(Ï¼-cis-1,2-dicyano-1,2-ethylenedithiolato)bis[(cis-1,2-dicyano-1,2-ethylenedithiolato)ferrate(III)] 1,4,7,10,13-pentaoxacyclopentadecane disolvate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m1557-m1558.	0.2	4
96	Electrochemical measurements of molecular compounds in homogeneous solution under photoirradiation. Coordination Chemistry Reviews, 2018, 374, 416-429.	18.8	3
97	Rational Synthetic Strategy for Heterometallic Multinuclear Complexes. Chemistry Letters, 2020, 49, 125-128.	1.3	3
98	Oxygen Evolution from Water Catalyzed by Mononuclear Aquaruthenium Complexes. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2011, 69, 370-378.	0.1	3
99	Photochemical hydrogen production based on the HCOOH/CO2 cycle promoted by a pentanuclear cobalt complex. Chemical Communications, 2022, , .	4.1	3
100	Bridging coordination of acenaphthylene to a Pd₃ chain or a Pd₄ sheet cluster. Dalton Transactions, 2022, 51, 1901-1906.	3.3	3
101	Synthesis and Electrocatalytic CO2 Reduction Activity of an Iron Porphyrin Complex Bearing a Hydroquinone Moiety. Chemistry Letters, 2022, 51, 224-226.	1.3	3
102	Synthesis and structural characterization of centrosymmetric multinuclear nickel(II) complexes with neutral tetradentate N6-ligand. Transition Metal Chemistry, 2021, 46, 255-262.	1.4	2
103	Fabrication of Functionâ€Integrated Water Oxidation Catalysts by Electrochemical Polymerization of Ruthenium Complexes. ChemElectroChem, 2022, 9, e202101363.	3.4	2
104	N-(1,10-Phenanthrolin-5-yl)-4-(2-pyridyl)benzamide monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1979-o1979.	0.2	2
105	Dibromido(2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene)cobalt(III) bromide. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m1378-m1379.	0.2	1
106	Possibility of Dielectric Material: Magnetic Resonance Study of Oxoâ€Bridged Dinuclear Ruthenium Mixedâ€Valence Complex. ChemistrySelect, 2018, 3, 10526-10531.	1.5	1
107	Protonâ€Coupled Electron Transfer Induced by Nearâ€Infrared Light. Chemistry - an Asian Journal, 2019, 14, 2806-2809.	3.3	1
108	Unveiling Latent Photoreactivity of Imines. Angewandte Chemie, 2020, 132, 3694-3699.	2.0	1

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109	1-[4-(Diaminomethyleneaminosulfonyl)phenyliminiomethyl]-2-naphtholateN,N-dimethylformamide disolvate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1350-o1351.	0.2	1
110	Bis(2,2â€²-bipyridine){ethyl 4â€²-[N-(4-carbamoylphenyl)carbamoyl]-2,2â€²-bipyridine-4-carboxylate}ruthenium(II) bis[hexafluoridophosphate(V)]. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m228-m229.	0.2	1
111	Catalytic Oxygen Evolution from Water by Robust Metal Complexes. Bulletin of Japan Society of Coordination Chemistry, 2008, 51, 66-67.	0.2	1
112	Electrochemical Polymerization of a Carbazoleâ€Tethered Cobalt Phthalocyanine for Electrocatalytic Water Oxidation. ChemNanoMat, 0, , .	2.8	1
113	Fabrication of a Functionâ€Integrated Water Oxidation Catalyst through the Electrochemical Polymerization of Ruthenium Complexes. ChemElectroChem, 2022, 9, .	3.4	1
114	A Facile and Versatile Preparation of Bilindiones and Biladienones from Tetraarylporphyrins.. ChemInform, 2005, 36, no.	0.0	0
115	Back Cover: Proton-Induced Tuning of Metal-Metal Communication in Rack-Type Dinuclear Ru Complexes Containing Benzimidazolyl Moieties (Chem. Eur. J. 25/2011). Chemistry - A European Journal, 2011, 17, 6874-6874.	3.3	0
116	InnenrÃ¼cktitelbild: Electrochemical Polymerization Provides a Functionâ€Integrated System for Water Oxidation (Angew. Chem. 11/2021). Angewandte Chemie, 2021, 133, 6251-6251.	2.0	0
117	Carbon Dioxide Reduction: Modulation of Selfâ€Assembly Enhances the Catalytic Activity of Iron Porphyrin for CO₂ Reduction (Small 22/2021). Small, 2021, 17, 2170110.	10.0	0