Yusuke Yamada

List of Publications by Citations

90 papers	3,541 citations	31 h-index	58 g-index
93 ext. papers	3,947 ext. citations	8.4 avg, IF	5.75 L-index

#	Paper	IF	Citations
90	Catalysis of nickel ferrite for photocatalytic water oxidation using [Ru(bpy)3]2+ and S2O8(2-). *Journal of the American Chemical Society*, **2012**, 134, 19572-5	16.4	217
89	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. *Energy and Environmental Science*, **2012**, 5, 7606	35.4	196
88	Seawater usable for production and consumption of hydrogen peroxide as a solar fuel. *Nature Communications*, **2016**, 7, 11470	17.4	179
87	Cu/Co3O4 Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. *Journal of Physical Chemistry C*, **2010**, 114, 16456-16462	3.8	177
86	Hydrogen Peroxide as a Sustainable Energy Carrier: Electrocatalytic Production of Hydrogen Peroxide and the Fuel Cell. *Electrochimica Acta*, **2012**, 82, 493-511	6.7	176
85	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. *Energy and Environmental Science*, **2011**, 4, 2754	35.4	159
84	Water oxidation catalysis with nonheme iron complexes under acidic and basic conditions: homogeneous or heterogeneous?. *Inorganic Chemistry*, **2013**, 52, 9522-31	5.1	144
83	Efficient water oxidation by cerium ammonium nitrate with [IrIII(Cp*)(4,4?-bishydroxy-2,2?-bipyridine)(H2O)]2+as a precatalyst. *Energy and Environmental Science*, **2012**, 5, 5708-5716	35.4	131
82	Protonated iron�phthalocyanine complex used for cathode material of a hydrogen peroxide fuel cell operated under acidic conditions. *Energy and Environmental Science*, **2011**, 4, 2822	35.4	114
81	Hydrogen peroxide as sustainable fuel: electrocatalysts for production with a solar cell and decomposition with a fuel cell. *Chemical Communications*, **2010**, 46, 7334-6	5.8	109
80	LaCoO3 acting as an efficient and robust catalyst for photocatalytic water oxidation with persulfate. *Physical Chemistry Chemical Physics*, **2012**, 14, 5753-60	3.6	103
79	Photocatalytic hydrogen evolution under highly basic conditions by using Ru nanoparticles and 2-phenyl-4-(1-naphthyl)quinolinium ion. *Journal of the American Chemical Society*, **2011**, 133, 16136-45	16.4	91
78	Size- and shape-dependent activity of metal nanoparticles as hydrogen-evolution catalysts: mechanistic insights into photocatalytic hydrogen evolution. *Chemistry - A European Journal*, **2011**, 17, 2777-85	4.8	86
77	High and robust performance of H2O2 fuel cells in the presence of scandium ion. *Energy and Environmental Science*, **2015**, 8, 1698-1701	35.4	84
76	Photocatalytic hydrogen evolution with Ni nanoparticles by using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst. *Energy and Environmental Science*, **2012**, 5, 6111	35.4	82
75	Catalytic application of shape-controlled Cu2O particles protected by Co3O4 nanoparticles for hydrogen evolution from ammonia borane. *Energy and Environmental Science*, **2012**, 5, 5356-5363	35.4	75
74	Efficient Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen with Bismuth Vanadate and a Cobalt(II) Chlorin Complex. *ACS Energy Letters*, **2016**, 1, 913-919	20.1	74

73	Bioinspired Photocatalytic Water Reduction and Oxidation with Earth-Abundant Metal Catalysts. *Journal of Physical Chemistry Letters*, **2013**, 4, 3458-3467	6.4	72
72	A robust one-compartment fuel cell with a polynuclear cyanide complex as a cathode for utilizing H2O2 as a sustainable fuel at ambient conditions. *Chemistry - A European Journal*, **2013**, 19, 11733-41	4.8	65
71	Catalytic activity of metal-based nanoparticles for photocatalytic water oxidation and reduction. *Journal of Materials Chemistry*, **2012**, 22, 24284		65
70	Hydrogen Peroxide used as a Solar Fuel in One-Compartment Fuel Cells. *ChemElectroChem*, **2016**, 3, 1978-1989	4.3	60
69	Homogeneous and Heterogeneous Photocatalytic Water Oxidation by Persulfate. *Chemistry - an Asian Journal*, **2016**, 11, 1138-50	4.5	59
68	Bottom-up and top-down methods to improve catalytic reactivity for photocatalytic production of hydrogen peroxide using a Ru-complex and water oxidation catalysts. *Journal of Materials Chemistry A*, **2015**, 3, 12404-12412	13	54
67	Photocatalytic production of hydrogen peroxide from water and dioxygen using cyano-bridged polynuclear transition metal complexes as water oxidation catalysts. *Catalysis Science and Technology*, **2016**, 6, 681-684	5.5	54
66	High catalytic activity of heteropolynuclear cyanide complexes containing cobalt and platinum ions: visible-light driven water oxidation. *Angewandte Chemie - International Edition*, **2015**, 54, 5613-7	16.4	49
65	Enhanced catalytic activity of CuPd alloy nanoparticles towards reduction of nitroaromatics and hexavalent chromium. *Journal of Colloid and Interface Science*, **2017**, 486, 46-57	9.3	49
64	Shape- and size-controlled nanomaterials for artificial photosynthesis. *ChemSusChem*, **2013**, 6, 1834-47	8.3	47
63	High power density of one-compartment H2O2 fuel cells using pyrazine-bridged Fe[M(C)(CN)4] (M(C) = Pt2+ and Pd2+) complexes as the cathode. *Inorganic Chemistry*, **2014**, 53, 1272-4	5.1	44
62	Photocatalytic Hydroxylation of Benzene by Dioxygen to Phenol with a Cyano-Bridged Complex Containing Fe(II) and Ru(II) Incorporated in Mesoporous Silica-Alumina. *Inorganic Chemistry*, **2016**, 55, 5780-6	5.1	38
61	Catalytic activity of NiMnO3 for visible light-driven and electrochemical water oxidation. *Physical Chemistry Chemical Physics*, **2013**, 15, 19125-8	3.6	34
60	Photocatalytic hydrogen evolution from carbon-neutral oxalate with 2-phenyl-4-(1-naphthyl)quinolinium ion and metal nanoparticles. *Physical Chemistry Chemical Physics*, **2012**, 14, 10564-71	3.6	31
59	The long-lived electron transfer state of the 2-phenyl-4-(1-naphthyl)quinolinium ion incorporated into nanosized mesoporous silica-alumina acting as a robust photocatalyst in water. *Chemical Communications*, **2013**, 49, 5132-4	5.8	29
58	Photocatalytic production of hydrogen peroxide by two-electron reduction of dioxygen with carbon-neutral oxalate using a 2-phenyl-4-(1-naphthyl)quinolinium ion as a robust photocatalyst. *Chemical Communications*, **2012**, 48, 8329-31	5.8	29
57	Dual function photocatalysis of cyano-bridged heteronuclear metal complexes for water oxidation and two-electron reduction of dioxygen to produce hydrogen peroxide as a solar fuel. *Chemical Communications*, **2017**, 53, 3473-3476	5.8	28
56	Thermal and Photocatalytic Production of Hydrogen Peroxide and its Use in Hydrogen Peroxide Fuel Cells. *Australian Journal of Chemistry*, **2014**, 67, 354	1.2	28

55	Robustness of Ru/SiO2 as a Hydrogen-Evolution Catalyst in a Photocatalytic System Using an Organic Photocatalyst. *Journal of Physical Chemistry C*, **2013**, 117, 13143-13152	3.8	27
54	Sustainable metal nano-contacts showing quantized conductance prepared at a gap of thin metal wires in solution. *Chemical Communications*, **2001**, 2170-1	5.8	27
53	Photocatalytic H2 evolution from NADH with carbon quantum dots/Pt and 2-phenyl-4-(1-naphthyl)quinolinium ion. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 63-70	6.7	26
52	Acetate induced enhancement of photocatalytic hydrogen peroxide production from oxalic acid and dioxygen. *Journal of Physical Chemistry A*, **2013**, 117, 3751-60	2.8	25
51	Selective hydroxylation of benzene derivatives and alkanes with hydrogen peroxide catalysed by a manganese complex incorporated into mesoporous silica-alumina. *Chemical Communications*, **2015**, 51, 4662-5	5.8	25
50	Production of hydrogen peroxide by combination of semiconductor-photocatalysed oxidation of water and photocatalytic two-electron reduction of dioxygen. *RSC Advances*, **2016**, 6, 42041-42044	3.7	23
49	High dimensional stability of LiCoMnO4 as positive electrodes operating at high voltage for lithium-ion batteries with a long cycle life. *Electrochimica Acta*, **2018**, 260, 498-503	6.7	22
48	Photocatalytic water oxidation by persulphate with a Ca ion-incorporated polymeric cobalt cyanide complex affording O with 200% quantum efficiency. *Chemical Communications*, **2017**, 53, 3418-3421	5.8	20
47	Heterogeneous catalase-like activity of gold(i)-cobalt(iii) metallosupramolecular ionic crystals. *Chemical Science*, **2017**, 8, 2671-2676	9.4	19
46	Synergistic effects of Ni and Cu supported on TiO2 and SiO2 on photocatalytic H2 evolution with an electron donoracceptor linked molecule. *Catalysis Science and Technology*, **2015**, 5, 979-988	5.5	18
45	High Catalytic Activity of Heteropolynuclear Cyanide Complexes Containing Cobalt and Platinum Ions: Visible-Light Driven Water Oxidation. *Angewandte Chemie*, **2015**, 127, 5705-5709	3.6	16
44	A composite photocatalyst of an organic electron donoracceptor dyad and a Pt catalyst supported on semiconductor nanosheets for efficient hydrogen evolution from oxalic acid. *Catalysis Science and Technology*, **2015**, 5, 428-437	5.5	15
43	Effect of surface acidity of cyano-bridged polynuclear metal complexes on the catalytic activity for the hydrolysis of organophosphates. *Catalysis Science and Technology*, **2018**, 8, 4747-4756	5.5	14
42	Improvement of durability of an organic photocatalyst in p-xylene oxygenation by addition of a Cu(II) complex. *Physical Chemistry Chemical Physics*, **2012**, 14, 9654-9	3.6	14
41	Hybrid H2-evolution catalysts: in situ formation of H2-evolution catalysts from metal salts inside the mesopores of silicaalumina supporting an organic photosensitiser. *RSC Advances*, **2013**, 3, 25677	3.7	13
40	Unravelling the Role of Metallic Cu in Cu-CuFe2O4/C Nanohybrid for Enhanced Oxygen Reduction Electrocatalysis. *ACS Applied Energy Materials*, **2020**, 3, 3488-3496	6.1	12
39	Photocatalytic hydrogen evolution systems constructed in cross-linked porous protein crystals. *Applied Catalysis B: Environmental*, **2018**, 237, 1124-1129	21.8	12
38	A Clue to High Rate Capability of Lithium-Ion Batteries Obtained by an Electrochemical Approach Using Diluted Electrode. *Journal of the Electrochemical Society*, **2018**, 165, A3965-A3970	3.9	12

37	Li2Ni0.2Co1.8O4 having a spinel framework as a zero-strain positive electrode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 13641-13649	13	11
36	Ni□Cu alloy nanoparticles loaded on various metal oxides acting as efficient catalysts for photocatalytic H2 evolution. *RSC Advances*, **2015**, 5, 44912-44919	3.7	9
35	Excitation energy transfer from non-aggregated molecules to perylenediimide nanoribbons via ionic interactions in water. *Journal of Materials Chemistry*, **2012**, 22, 12547		9
34	Elucidating the Role of Oxide-Oxide/Carbon Interfaces of CuO-CeO/C in Boosting Electrocatalytic Performance. *Langmuir*, **2020**, 36, 15141-15152	4	9
33	Enhancing the electrocatalytic activity via hybridization of Cu(I/II) oxides with Co3O4 towards oxygen electrode reactions. *Journal of Power Sources*, **2021**, 490, 229511	8.9	9
32	Creation and stabilisation of tuneable open metal sites in thiocyanato-bridged heterometallic coordination polymers to be used as heterogeneous catalysts. *Dalton Transactions*, **2019**, 48, 17063-17069	4.3	9
31	Nanofabrication of a Solid-State, Mesoporous Nanoparticle Composite for Efficient Photocatalytic Hydrogen Generation. *ChemPlusChem*, **2016**, 81, 521-525	2.8	8
30	Impact of particle size of lithium manganese oxide on charge transfer resistance and contact resistance evaluated by electrochemical impedance analysis. *Electrochimica Acta*, **2020**, 364, 137292	6.7	8
29	Cobalt-Copper Nanoparticles Catalyzed Selective Oxidation Reactions: Efficient Catalysis at Room Temperature. *ChemistrySelect*, **2018**, 3, 9826-9832	1.8	8
28	Laser-induced pinpoint hydrogen evolution from benzene and water using metal free single-walled carbon nanotubes with high quantum yields. *Chemical Science*, **2015**, 6, 666-674	9.4	7
27	Electrochemical impedance analysis of Li[Li0.1Al0.1Mn1.8]O4 used as lithium-insertion electrodes by the diluted electrode method. *Journal of Power Sources*, **2019**, 435, 226810	8.9	7
26	Single-Crystal-to-Single-Crystal Installation of Ln (OH) Cubanes in an Anionic Metallosupramolecular Framework. *Angewandte Chemie - International Edition*, **2020**, 59, 18048-18053	16.4	7
25	Unique Half Embedded/Exposed PdFeCu/C Interfacial Nanoalloy as High-Performance Electrocatalyst for Oxygen Reduction Reaction. *ChemCatChem*, **2019**, 11, 3522-3529	5.2	6
24	Measurement of Side-Reaction Currents on Electrodes of Lithium-Ion Cells Using a Battery Cycler with a High-Precision Current Source. *Electrochemistry*, **2019**, 87, 188-192	1.2	6
23	Elucidation of the origin of voltage hysteresis in xLi2MnO3□(1□x)LiCoO2 using backstitch charge-discharge method. *Electrochimica Acta*, **2020**, 334, 135623	6.7	6
22	Utilization of core-shell nanoparticles to evaluate subsurface contribution to water oxidation catalysis of [CoII(H2O)2]1.5[CoIII(CN)6] nanoparticles. *Applied Catalysis B: Environmental*, **2020**, 262, 118101	21.8	6
21	Reaction Mechanism and Kinetic Analysis of the Solid-State Reaction to Synthesize Single-Phase Li2Co2O4 Spinel. *Journal of Physical Chemistry C*, **2020**, 124, 8170-8177	3.8	5
20	Pd2CuCo/C Hybrid with Nanoflower Morphology toward Oxygen Reduction and Formic Acid Oxidation Reactions: Experimental and Computational Studies. *Energy & Fuels*, **2021**, 35, 11515-11524	4.1	5

19	Relationship between changes in ionic radius and lattice dimension of lithium manganese oxide spinels during lithium insertion/extraction. *Solid State Ionics*, **2019**, 343, 115077	3.3	5
18	Comparative Measurements of Side-Reaction Currents of Li[Li1/3Ti5/3]O4 and Li[Li0.1Al0.1Mn1.8]O4 Electrodes in Lithium-Ion Cells and Symmetric Cells. *Journal of the Electrochemical Society*, **2019**, 166, A3314-A3318	3.9	4
17	Single Open Sites on Fe Ions Stabilized by Coupled Metal Ions in CN-Deficient Prussian Blue Analogues for High Catalytic Activity in the Hydrolysis of Organophosphates. *Inorganic Chemistry*, **2020**, 59, 16000-16009	5.1	4
16	Rate capability of carbon-free lithium titanium oxide electrodes related to formation of electronic conduction paths observed by color change. *Journal of Power Sources*, **2019**, 430, 150-156	8.9	3
15	Quantitative Analysis of Large Voltage Hysteresis of Lithium Excess Materials by Backstitch Charge and Discharge Method. *Journal of the Electrochemical Society*, **2018**, 165, A2675-A2681	3.9	3
14	Immobilization of Ir(OH)3 Nanoparticles in Mesospaces of Al-SiO2 Nanoparticles Assembly to Enhance Stability for Photocatalytic Water Oxidation. *Catalysts*, **2020**, 10, 1015	4	2
13	Electrocatalysts for Hydrogen Peroxide Reduction Used in Fuel Cells. *Lecture Notes in Energy*, **2018**, 141-168	0.4	2
12	Effect of Electronic Conductivity on the Polarization Behavior of Li[Li1/3Ti5/3]O4 Electrodes. *Journal of the Electrochemical Society*, **2021**, 168, 070555	3.9	2
11	Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 426, 113753	4.7	1
10	Enhanced catalytic stability of acid phosphatase immobilized in the mesospaces of a SiO2-nanoparticles assembly for catalytic hydrolysis of organophosphates. *Molecular Catalysis*, **2021**, 510, 111669	3.3	1
9	Efficient capturing of hydrogen peroxide in dilute aqueous solution by co-crystallization with amino acids. *CrystEngComm*, **2021**, 23, 5456-5462	3.3	1
8	Nonprecious Hybrid Metal Oxide for Bifunctional Oxygen Electrodes: Endorsing the Role of Interfaces in Electrocatalytic Enhancement. *Energy & Fuels*, **2021**, 35, 13370-13381	4.1	1
7	Mechanism for Catalytic Stability Enhancement of FeIII[CoIII(CN)6] by Doping Divalent Ions for Organophosphate Hydrolysis. *Journal of Physical Chemistry C*, **2022**, 126, 5564-5574	3.8	1
6	Heterogeneous Catalysis of Lanthanoid Ions for the Hydrolysis of p-Nitrophenyl Phosphate Enhanced by Incorporation to Cyano-Bridged Heterometallic Coordination Polymers. *Journal of Physical Chemistry C*, **2022**, 126, 4365-4373	3.8	1
5	Voltage decay for lithium-excess material of Li[Li1/5Co2/5Mn2/5]O2 during cycling analyzed via backstitch method. *Journal of Solid State Electrochemistry*, **2022**, 26, 1519-1526	2.6	1
4	Utilization of Polymeric Cyano-Bridged Metal Complexes as Heterogeneous Catalysts. *Bulletin of Japan Society of Coordination Chemistry*, **2016**, 68, 16-28	0.3	
3	Synthesis and electrochemical properties of a cubic polymorph of LiNi1/2Mn1/2O2 with a spinel framework. *Journal of Solid State Electrochemistry*, **2022**, 26, 257	2.6	
2	Single-Crystal-to-Single-Crystal Installation of Ln4(OH)4 Cubanes in an Anionic Metallosupramolecular Framework. *Angewandte Chemie*, **2020**, 132, 18204-18209	3.6	

List of Publications

1 Synthesis Optimization of Electrochemically Active $LiCoMnO_4$ for High-Voltage Lithium-Ion Batteries. *Energy & Fuels*, **2021**, 35, 13449-13456 4.1