

Yusuke Yamada

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthesis and electrochemical properties of a cubic polymorph of $\text{LiNi}_{1/2}\text{Mn}_{1/2}\text{O}_2$ with a spinel framework. <i>Journal of Solid State Electrochemistry</i> , 2022 , 26, 257	2.6	
89	Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 426, 113753	4.7	1
88	Mechanism for Catalytic Stability Enhancement of $\text{Fe}^{\text{III}}[\text{Co}^{\text{III}}(\text{CN})_6]$ by Doping Divalent Ions for Organophosphate Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5564-5574	3.8	1
87	Heterogeneous Catalysis of Lanthanoid Ions for the Hydrolysis of p-Nitrophenyl Phosphate Enhanced by Incorporation to Cyano-Bridged Heterometallic Coordination Polymers. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4365-4373	3.8	1
86	Voltage decay for lithium-excess material of $\text{Li}[\text{Li}_{1/5}\text{Co}_{2/5}\text{Mn}_{2/5}]\text{O}_2$ during cycling analyzed via backstitch method. <i>Journal of Solid State Electrochemistry</i> , 2022 , 26, 1519-1526	2.6	1
85	Enhancing the electrocatalytic activity via hybridization of Cu(I/II) oxides with Co_3O_4 towards oxygen electrode reactions. <i>Journal of Power Sources</i> , 2021 , 490, 229511	8.9	9
84	Enhanced catalytic stability of acid phosphatase immobilized in the mesospaces of a SiO_2 -nanoparticles assembly for catalytic hydrolysis of organophosphates. <i>Molecular Catalysis</i> , 2021 , 510, 111669	3.3	1
83	$\text{Pd}_2\text{CuCo}/\text{C}$ Hybrid with Nanoflower Morphology toward Oxygen Reduction and Formic Acid Oxidation Reactions: Experimental and Computational Studies. <i>Energy & Fuels</i> , 2021 , 35, 11515-11524	4.1	5
82	Efficient capturing of hydrogen peroxide in dilute aqueous solution by co-crystallization with amino acids. <i>CrystEngComm</i> , 2021 , 23, 5456-5462	3.3	1
81	Effect of Electronic Conductivity on the Polarization Behavior of $\text{Li}[\text{Li}_{1/3}\text{Ti}_{5/3}]\text{O}_4$ Electrodes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070555	3.9	2
80	Nonprecious Hybrid Metal Oxide for Bifunctional Oxygen Electrodes: Endorsing the Role of Interfaces in Electrocatalytic Enhancement. <i>Energy & Fuels</i> , 2021 , 35, 13370-13381	4.1	1
79	Synthesis Optimization of Electrochemically Active LiCoMnO_4 for High-Voltage Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021 , 35, 13449-13456	4.1	
78	Immobilization of $\text{Ir}(\text{OH})_3$ Nanoparticles in Mesospaces of Al-SiO_2 Nanoparticles Assembly to Enhance Stability for Photocatalytic Water Oxidation. <i>Catalysts</i> , 2020 , 10, 1015	4	2
77	Unravelling the Role of Metallic Cu in $\text{Cu-CuFe}_2\text{O}_4/\text{C}$ Nanohybrid for Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3488-3496	6.1	12
76	Reaction Mechanism and Kinetic Analysis of the Solid-State Reaction to Synthesize Single-Phase $\text{Li}_2\text{Co}_2\text{O}_4$ Spinel. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8170-8177	3.8	5
75	Elucidation of the origin of voltage hysteresis in $x\text{Li}_2\text{MnO}_3(1-x)\text{LiCoO}_2$ using backstitch charge-discharge method. <i>Electrochimica Acta</i> , 2020 , 334, 135623	6.7	6
74	Impact of particle size of lithium manganese oxide on charge transfer resistance and contact resistance evaluated by electrochemical impedance analysis. <i>Electrochimica Acta</i> , 2020 , 364, 137292	6.7	8

73	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. <i>Inorganic Chemistry</i> , 2020 , 59, 16000-16009	5.1	4
72	Elucidating the Role of Oxide-Oxide/Carbon Interfaces of CuO-CeO/C in Boosting Electrocatalytic Performance. <i>Langmuir</i> , 2020 , 36, 15141-15152	4	9
71	Single-Crystal-to-Single-Crystal Installation of Ln (OH) Cubanes in an Anionic Metallosupramolecular Framework. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18048-18053	16.4	7
70	Single-Crystal-to-Single-Crystal Installation of Ln ₄ (OH) ₄ Cubanes in an Anionic Metallosupramolecular Framework. <i>Angewandte Chemie</i> , 2020 , 132, 18204-18209	3.6	
69	Utilization of core-shell nanoparticles to evaluate subsurface contribution to water oxidation catalysis of [CoII(H ₂ O) ₂] _{1.5} [CoIII(CN) ₆] nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118101	21.8	6
68	Comparative Measurements of Side-Reaction Currents of Li[Li _{1/3} Ti _{5/3}]O ₄ and Li[Li _{0.1} Al _{0.1} Mn _{1.8}]O ₄ Electrodes in Lithium-Ion Cells and Symmetric Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3314-A3318	3.9	4
67	Unique Half Embedded/Exposed PdFeCu/C Interfacial Nanoalloy as High-Performance Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 3522-3529	5.2	6
66	Rate capability of carbon-free lithium titanium oxide electrodes related to formation of electronic conduction paths observed by color change. <i>Journal of Power Sources</i> , 2019 , 430, 150-156	8.9	3
65	Li ₂ Ni _{0.2} Co _{1.8} O ₄ having a spinel framework as a zero-strain positive electrode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13641-13649	13	11
64	Electrochemical impedance analysis of Li[Li _{0.1} Al _{0.1} Mn _{1.8}]O ₄ used as lithium-insertion electrodes by the diluted electrode method. <i>Journal of Power Sources</i> , 2019 , 435, 226810	8.9	7
63	Measurement of Side-Reaction Currents on Electrodes of Lithium-Ion Cells Using a Battery Cycler with a High-Precision Current Source. <i>Electrochemistry</i> , 2019 , 87, 188-192	1.2	6
62	Relationship between changes in ionic radius and lattice dimension of lithium manganese oxide spinels during lithium insertion/extraction. <i>Solid State Ionics</i> , 2019 , 343, 115077	3.3	5
61	Creation and stabilisation of tuneable open metal sites in thiocyanato-bridged heterometallic coordination polymers to be used as heterogeneous catalysts. <i>Dalton Transactions</i> , 2019 , 48, 17063-17069	4.3	9
60	Photocatalytic hydrogen evolution systems constructed in cross-linked porous protein crystals. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1124-1129	21.8	12
59	Electrocatalysts for Hydrogen Peroxide Reduction Used in Fuel Cells. <i>Lecture Notes in Energy</i> , 2018 , 141-168	16.8	2
58	Effect of surface acidity of cyano-bridged polynuclear metal complexes on the catalytic activity for the hydrolysis of organophosphates. <i>Catalysis Science and Technology</i> , 2018 , 8, 4747-4756	5.5	14
57	High dimensional stability of LiCoMnO ₄ as positive electrodes operating at high voltage for lithium-ion batteries with a long cycle life. <i>Electrochimica Acta</i> , 2018 , 260, 498-503	6.7	22
56	A Clue to High Rate Capability of Lithium-Ion Batteries Obtained by an Electrochemical Approach Using Diluted Electrode. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3965-A3970	3.9	12

55	Quantitative Analysis of Large Voltage Hysteresis of Lithium Excess Materials by Backstitch Charge and Discharge Method. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2675-A2681	3.9	3
54	Cobalt-Copper Nanoparticles Catalyzed Selective Oxidation Reactions: Efficient Catalysis at Room Temperature. <i>ChemistrySelect</i> , 2018 , 3, 9826-9832	1.8	8
53	Heterogeneous catalase-like activity of gold(i)-cobalt(iii) metallocsupramolecular ionic crystals. <i>Chemical Science</i> , 2017 , 8, 2671-2676	9.4	19
52	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. <i>Chemical Communications</i> , 2017 , 53, 3473-3476	5.8	28
51	Photocatalytic water oxidation by persulphate with a Ca ion-incorporated polymeric cobalt cyanide complex affording O ₂ with 200% quantum efficiency. <i>Chemical Communications</i> , 2017 , 53, 3418-3421	5.8	20
50	Enhanced catalytic activity of CuPd alloy nanoparticles towards reduction of nitroaromatics and hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , 2017 , 486, 46-57	9.3	49
49	Efficient Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen with Bismuth Vanadate and a Cobalt(II) Chlorin Complex. <i>ACS Energy Letters</i> , 2016 , 1, 913-919	20.1	74
48	Seawater usable for production and consumption of hydrogen peroxide as a solar fuel. <i>Nature Communications</i> , 2016 , 7, 11470	17.4	179
47	Utilization of Polymeric Cyano-Bridged Metal Complexes as Heterogeneous Catalysts. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2016 , 68, 16-28	0.3	
46	Homogeneous and Heterogeneous Photocatalytic Water Oxidation by Persulfate. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1138-50	4.5	59
45	Photocatalytic Hydroxylation of Benzene by Dioxygen to Phenol with a Cyano-Bridged Complex Containing Fe(II) and Ru(II) Incorporated in Mesoporous Silica-Alumina. <i>Inorganic Chemistry</i> , 2016 , 55, 5780-6	5.1	38
44	Nanofabrication of a Solid-State, Mesoporous Nanoparticle Composite for Efficient Photocatalytic Hydrogen Generation. <i>ChemPlusChem</i> , 2016 , 81, 521-525	2.8	8
43	Photocatalytic production of hydrogen peroxide from water and dioxygen using cyano-bridged polynuclear transition metal complexes as water oxidation catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 681-684	5.5	54
42	Production of hydrogen peroxide by combination of semiconductor-photocatalysed oxidation of water and photocatalytic two-electron reduction of dioxygen. <i>RSC Advances</i> , 2016 , 6, 42041-42044	3.7	23
41	Hydrogen Peroxide used as a Solar Fuel in One-Compartment Fuel Cells. <i>ChemElectroChem</i> , 2016 , 3, 1978-1986	4.3	60
40	A composite photocatalyst of an organic electron donor-acceptor dyad and a Pt catalyst supported on semiconductor nanosheets for efficient hydrogen evolution from oxalic acid. <i>Catalysis Science and Technology</i> , 2015 , 5, 428-437	5.5	15
39	High catalytic activity of heteropolynuclear cyanide complexes containing cobalt and platinum ions: visible-light driven water oxidation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5613-7	16.4	49
38	High and robust performance of H ₂ O ₂ fuel cells in the presence of scandium ion. <i>Energy and Environmental Science</i> , 2015 , 8, 1698-1701	35.4	84

37	Photocatalytic H ₂ evolution from NADH with carbon quantum dots/Pt and 2-phenyl-4-(1-naphthyl)quinolinium ion. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 152, 63-70	6.7	26
36	Bottom-up and top-down methods to improve catalytic reactivity for photocatalytic production of hydrogen peroxide using a Ru-complex and water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12404-12412	13	54
35	NiCu alloy nanoparticles loaded on various metal oxides acting as efficient catalysts for photocatalytic H ₂ evolution. <i>RSC Advances</i> , 2015 , 5, 44912-44919	3.7	9
34	Laser-induced pinpoint hydrogen evolution from benzene and water using metal free single-walled carbon nanotubes with high quantum yields. <i>Chemical Science</i> , 2015 , 6, 666-674	9.4	7
33	Synergistic effects of Ni and Cu supported on TiO ₂ and SiO ₂ on photocatalytic H ₂ evolution with an electron donor-acceptor linked molecule. <i>Catalysis Science and Technology</i> , 2015 , 5, 979-988	5.5	18
32	High Catalytic Activity of Heteropolynuclear Cyanide Complexes Containing Cobalt and Platinum Ions: Visible-Light Driven Water Oxidation. <i>Angewandte Chemie</i> , 2015 , 127, 5705-5709	3.6	16
31	Selective hydroxylation of benzene derivatives and alkanes with hydrogen peroxide catalysed by a manganese complex incorporated into mesoporous silica-alumina. <i>Chemical Communications</i> , 2015 , 51, 4662-5	5.8	25
30	High power density of one-compartment H ₂ O ₂ fuel cells using pyrazine-bridged Fe[M(C)(CN) ₄] (M(C) = Pt ²⁺ and Pd ²⁺) complexes as the cathode. <i>Inorganic Chemistry</i> , 2014 , 53, 1272-4	5.1	44
29	Thermal and Photocatalytic Production of Hydrogen Peroxide and its Use in Hydrogen Peroxide Fuel Cells. <i>Australian Journal of Chemistry</i> , 2014 , 67, 354	1.2	28
28	Shape- and size-controlled nanomaterials for artificial photosynthesis. <i>ChemSusChem</i> , 2013 , 6, 1834-47	8.3	47
27	Water oxidation catalysis with nonheme iron complexes under acidic and basic conditions: homogeneous or heterogeneous?. <i>Inorganic Chemistry</i> , 2013 , 52, 9522-31	5.1	144
26	Catalytic activity of NiMnO ₃ for visible light-driven and electrochemical water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19125-8	3.6	34
25	A robust one-compartment fuel cell with a polynuclear cyanide complex as a cathode for utilizing H ₂ O ₂ as a sustainable fuel at ambient conditions. <i>Chemistry - A European Journal</i> , 2013 , 19, 11733-41	4.8	65
24	Bioinspired Photocatalytic Water Reduction and Oxidation with Earth-Abundant Metal Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3458-3467	6.4	72
23	Hybrid H ₂ -evolution catalysts: in situ formation of H ₂ -evolution catalysts from metal salts inside the mesopores of silica-alumina supporting an organic photosensitizer. <i>RSC Advances</i> , 2013 , 3, 25677	3.7	13
22	Acetate induced enhancement of photocatalytic hydrogen peroxide production from oxalic acid and dioxygen. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 3751-60	2.8	25
21	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. <i>Chemical Communications</i> , 2013 , 49, 5132-4	5.8	29
20	Robustness of Ru/SiO ₂ as a Hydrogen-Evolution Catalyst in a Photocatalytic System Using an Organic Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13143-13152	3.8	27

19	LaCoO ₃ acting as an efficient and robust catalyst for photocatalytic water oxidation with persulfate. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5753-60	3.6	103
18	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. <i>Chemical Communications</i> , 2012 , 48, 8329-31	5.8	29
17	Photocatalytic hydrogen evolution from carbon-neutral oxalate with 2-phenyl-4-(1-naphthyl)quinolinium ion and metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10564-71	3.6	31
16	Catalytic activity of metal-based nanoparticles for photocatalytic water oxidation and reduction. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24284		65
15	Efficient water oxidation by cerium ammonium nitrate with [Ir(III)(Cp*)(4,4'-bishydroxy-2,2'-bipyridine)(H ₂ O)] ²⁺ as a precatalyst. <i>Energy and Environmental Science</i> , 2012 , 5, 5708-5716	35.4	131
14	Excitation energy transfer from non-aggregated molecules to perylene diimide nanoribbons via ionic interactions in water. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12547		9
13	Catalytic application of shape-controlled Cu ₂ O particles protected by Co ₃ O ₄ nanoparticles for hydrogen evolution from ammonia borane. <i>Energy and Environmental Science</i> , 2012 , 5, 5356-5363	35.4	75
12	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 7606	35.4	196
11	Improvement of durability of an organic photocatalyst in p-xylene oxygenation by addition of a Cu(II) complex. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9654-9	3.6	14
10	Catalysis of nickel ferrite for photocatalytic water oxidation using [Ru(bpy) ₃] ²⁺ and S ₂ O ₈ ²⁻ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 19572-5	16.4	217
9	Hydrogen Peroxide as a Sustainable Energy Carrier: Electrocatalytic Production of Hydrogen Peroxide and the Fuel Cell. <i>Electrochimica Acta</i> , 2012 , 82, 493-511	6.7	176
8	Photocatalytic hydrogen evolution with Ni nanoparticles by using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst. <i>Energy and Environmental Science</i> , 2012 , 5, 6111	35.4	82
7	Photocatalytic hydrogen evolution under highly basic conditions by using Ru nanoparticles and 2-phenyl-4-(1-naphthyl)quinolinium ion. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16136-45	16.4	91
6	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. <i>Energy and Environmental Science</i> , 2011 , 4, 2754	35.4	159
5	Size- and shape-dependent activity of metal nanoparticles as hydrogen-evolution catalysts: mechanistic insights into photocatalytic hydrogen evolution. <i>Chemistry - A European Journal</i> , 2011 , 17, 2777-85	4.8	86
4	Protonated iron phthalocyanine complex used for cathode material of a hydrogen peroxide fuel cell operated under acidic conditions. <i>Energy and Environmental Science</i> , 2011 , 4, 2822	35.4	114
3	Cu/Co ₃ O ₄ Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16456-16462	3.8	177
2	Hydrogen peroxide as sustainable fuel: electrocatalysts for production with a solar cell and decomposition with a fuel cell. <i>Chemical Communications</i> , 2010 , 46, 7334-6	5.8	109

- 1 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