

Yusuke Yamada

List of Publications by Year in descending order

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90
papers

4,325
citations

136885

32
h-index

110317

64
g-index

93
all docs

93
docs citations

93
times ranked

4516
citing authors

#	ARTICLE	IF	CITATIONS
1	Seawater usable for production and consumption of hydrogen peroxide as a solar fuel. <i>Nature Communications</i> , 2016, 7, 11470.	5.8	310
2	Hydrogen peroxide as a sustainable energy carrier: Electrocatalytic production of hydrogen peroxide and the fuel cell. <i>Electrochimica Acta</i> , 2012, 82, 493-511.	2.6	245
3	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, 19572-19575.	6.6	243
4	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.	15.6	208
5	Cu ₃ O Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16456-16462.	1.5	191
6	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. <i>Energy and Environmental Science</i> , 2011, 4, 2754.	15.6	169
7	Water Oxidation Catalysis with Nonheme Iron Complexes under Acidic and Basic Conditions: Homogeneous or Heterogeneous?. <i>Inorganic Chemistry</i> , 2013, 52, 9522-9531.	1.9	164
8	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.	15.6	145
9	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.	2.2	135
10	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.	15.6	131
11	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.	15.6	112
12	LaCoO ₃ acting as an efficient and robust catalyst for photocatalytic water oxidation with persulfate. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5753.	1.3	109
13	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, 16136-16145.	6.6	98
14	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.	8.8	98
15	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, 2777-2785.	1.7	97
16	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.	15.6	89
17	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.	15.6	88
18	Hydrogen Peroxide used as a Solar Fuel in One-Compartment Fuel Cells. <i>ChemElectroChem</i> , 2016, 3, 1978-1989.	1.7	84

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19	A Robust One-Compartment Fuel Cell with a Polynuclear Cyanide Complex as a Cathode for Utilizing H_2 as a Sustainable Fuel at Ambient Conditions. <i>Chemistry - A European Journal</i> , 2013, 19, 11733-11741.	1.7	80
20	Bioinspired Photocatalytic Water Reduction and Oxidation with Earth-Abundant Metal Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3458-3467.	2.1	77
21	Catalytic activity of metal-based nanoparticles for photocatalytic water oxidation and reduction. <i>Journal of Materials Chemistry</i> , 2012, 22, 24284.	6.7	69
22	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.	5.2	67
23	Homogeneous and Heterogeneous Photocatalytic Water Oxidation by Persulfate. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1138-1150.	1.7	67
24	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.	2.1	66
25	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, 5613-5617.	7.2	63
26	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.	5.0	60
27	High Power Density of One-Compartment H_2 Fuel Cells Using Pyrazine-Bridged $Fe[M(C)(CN)_4]$ ($M = Pt$ and Tj) / Over	7.8	68
28	Shape- and Size-Controlled Nanomaterials for Artificial Photosynthesis. <i>ChemSusChem</i> , 2013, 6, 1834-1847.	3.6	51
29	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, 5780-5786.	1.9	46
30	Catalytic activity of $NiMnO_3$ for visible light-driven and electrochemical water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19125.	1.3	41
31	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.	2.2	37
32	Acetate Induced Enhancement of Photocatalytic Hydrogen Peroxide Production from Oxalic Acid and Dioxygen. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3751-3760.	1.1	33
33	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.	1.3	32
34	Thermal and Photocatalytic Production of Hydrogen Peroxide and its Use in Hydrogen Peroxide Fuel Cells. <i>Australian Journal of Chemistry</i> , 2014, 67, 354.	0.5	32
35	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.	2.6	32
36	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.	2.2	30

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37	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.	2.2	30
38	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, 4662-4665.	2.2	30
39	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.	1.5	29
40	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.	1.7	28
41	Sustainable metal nano-contacts showing quantized conductance prepared at a gap of thin metal wires in solution. <i>Chemical Communications</i> , 2001, , 2170-2171.	2.2	27
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.	1.7	26
43	Photocatalytic water oxidation by persulphate with a Ca ²⁺ ion-incorporated polymeric cobalt cyanide complex affording O ₂ with 200% quantum efficiency. <i>Chemical Communications</i> , 2017, 53, 3418-3421.	2.2	26
44	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.	2.6	26
45	Elucidating the Role of Oxide-Oxide/Carbon Interfaces of CuO _x /CeO ₂ /C in Boosting Electrocatalytic Performance. <i>Langmuir</i> , 2020, 36, 15141-15152.	1.6	25
46	Heterogeneous catalase-like activity of gold-cobalt metallosupramolecular ionic crystals. <i>Chemical Science</i> , 2017, 8, 2671-2676.	3.7	22
47	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.	2.1	19
48	Photocatalytic hydrogen evolution systems constructed in cross-linked porous protein crystals. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1124-1129.	10.8	19
49	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.	5.2	19
50	Unravelling the Role of Metallic Cu in Cu-CuFe ₂ O ₄ /C Nanohybrid for Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020, 3, 3488-3496.	2.5	19
51	RuO ₂ Nanoparticle-Embedded Graphitic Carbon Nitride for Efficient Photocatalytic H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 11700-11708.	2.4	17
52	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.	2.1	16
53	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.	1.3	16
54	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.	1.3	15

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55	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.	2.1	15
56	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.	1.7	13
57	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.	1.6	12
58	Single-Crystal-to-Single-Crystal Installation of Ln ₄ (OH) ₄ Cubanes in an Anionic Metallosupramolecular Framework. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18048-18053.	7.2	12
59	Enhancing the electrocatalytic activity via hybridization of Cu(I/II) oxides with Co ₃ O ₄ towards oxygen electrode reactions. <i>Journal of Power Sources</i> , 2021, 490, 229511.	4.0	12
60	Cobalt-Copper Nanoparticles Catalyzed Selective Oxidation Reactions: Efficient Catalysis at Room Temperature. <i>ChemistrySelect</i> , 2018, 3, 9826-9832.	0.7	11
61	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.	10.8	11
62	Ni-Cu alloy nanoparticles loaded on various metal oxides acting as efficient catalysts for photocatalytic H ₂ evolution. <i>RSC Advances</i> , 2015, 5, 44912-44919.	1.7	10
63	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.	4.0	10
64	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.	0.6	10
65	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.	6.7	9
66	Nanofabrication of a Solid-State, Mesoporous Nanoparticle Composite for Efficient Photocatalytic Hydrogen Generation. <i>ChemPlusChem</i> , 2016, 81, 521-525.	1.3	9
67	Unique Half Embedded/Exposed PdFeCu/C Interfacial Nanoalloy as High-Performance Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019, 11, 3522-3529.	1.8	9
68	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.	4.0	9
69	Reaction Mechanism and Kinetic Analysis of the Solid-State Reaction to Synthesize Single-Phase Li ₂ Co ₂ O ₄ Spinel. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8170-8177.	1.5	9
70	Nonprecious Hybrid Metal Oxide for Bifunctional Oxygen Electrodes: Endorsing the Role of Interfaces in Electrocatalytic Enhancement. <i>Energy & Fuels</i> , 2021, 35, 13370-13381.	2.5	9
71	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.	1.3	8
72	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.	1.3	8

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73	Pd ₂ CuCo/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.	2.5	8
74	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.	3.7	7
75	Elucidation of the origin of voltage hysteresis in xLi ₂ MnO ₃ ·(1-x)LiCoO ₂ using backstitch charge-discharge method. <i>Electrochimica Acta</i> , 2020, 334, 135623.	2.6	6
76	Single Open Sites on Fe ^{II} 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.	1.9	6
77	Effect of Electronic Conductivity on the Polarization Behavior of Li[Li _{1/3} Ti _{5/3}]O ₄ Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070555.	1.3	5
78	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.	1.3	4
79	Efficient capturing of hydrogen peroxide in dilute aqueous solution by co-crystallization with amino acids. <i>CrystEngComm</i> , 2021, 23, 5456-5462.	1.3	4
80	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.	2.0	4
81	Electrocatalysts for Hydrogen Peroxide Reduction Used in Fuel Cells. <i>Lecture Notes in Energy</i> , 2018, , 141-168.	0.2	3
82	Mechanism for Catalytic Stability Enhancement of Fe ^{III} [Co ^{III} (CN) ₆] by Doping Divalent Ions for Organophosphate Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5564-5574.	1.5	3
83	Immobilization of Ir(OH) ₃ Nanoparticles in Mesospaces of Al-SiO ₂ Nanoparticles Assembly to Enhance Stability for Photocatalytic Water Oxidation. <i>Catalysts</i> , 2020, 10, 1015.	1.6	2
84	Voltage decay for lithium-excess material of Li[Li _{1/5} Co _{2/5} Mn _{2/5}]O ₂ during cycling analyzed via backstitch method. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1519-1526.	1.2	2
85	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.	1.0	1
86	Synthesis Optimization of Electrochemically Active LiCoMnO ₄ for High-Voltage Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 13449-13456.	2.5	1
87	Heterogeneous Catalysis of Lanthanoid Ions for the Hydrolysis of <i>p</i> -Nitrophenyl Phosphate Enhanced by Incorporation to Cyano-Bridged Heterometallic Coordination Polymers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4365-4373.	1.5	1
88	Utilization of Polymeric Cyano-Bridged Metal Complexes as Heterogeneous Catalysts. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2016, 68, 16-28.	0.1	0
89	Single-Crystal Installation of Ln ₄ (OH) ₄ Cubanes in an Anionic Metallosupramolecular Framework. <i>Angewandte Chemie</i> , 2020, 132, 18204-18209.	1.6	0
90	Synthesis and electrochemical properties of a cubic polymorph of LiNi _{1/2} Mn _{1/2} O ₂ with a spinel framework. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 257.	1.2	0