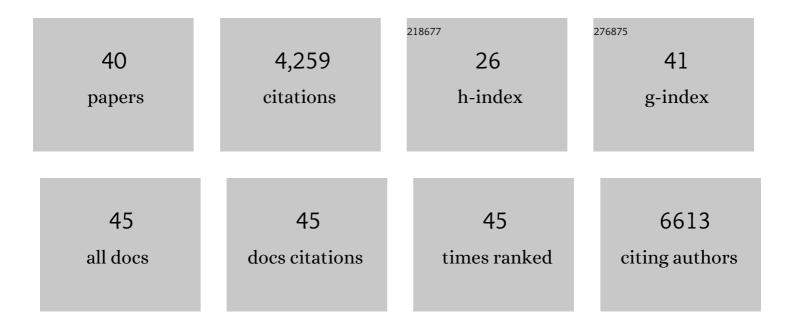
## Tatsuya Shinagawa

List of Publications by Year in descending order

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ΤΑΤΩΙΥΛ ΟΗΙΝΑΟΛΜΑ

#	Article	IF	CITATIONS
1	Insight on Tafel slopes from a microkinetic analysis of aqueous electrocatalysis for energy conversion. Scientific Reports, 2015, 5, 13801.	3.3	2,017
2	Electrocatalytic Reduction of Nitrogen: From Haber-Bosch to Ammonia Artificial Leaf. CheM, 2019, 5, 263-283.	11.7	339
3	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2018, 8, 837-844.	11.2	209
4	Towards Versatile and Sustainable Hydrogen Production through Electrocatalytic Water Splitting: Electrolyte Engineering. ChemSusChem, 2017, 10, 1318-1336.	6.8	154
5	Temperature Dependence of Electrocatalytic and Photocatalytic Oxygen Evolution Reaction Rates Using NiFe Oxide. ACS Catalysis, 2016, 6, 1713-1722.	11.2	145
6	Volcano Trend in Electrocatalytic CO <sub>2</sub> Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. ACS Catalysis, 2019, 9, 10426-10439.	11.2	142
7	Low temperature catalytic reverse water gas shift reaction assisted by an electric field. Catalysis Today, 2014, 232, 27-32.	4.4	117
8	An Oxygenâ€Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenumâ€Based Layer for Overall Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 5780-5784.	13.8	106
9	Recent advances in understanding oxygen evolution reaction mechanisms over iridium oxide. Inorganic Chemistry Frontiers, 2021, 8, 2900-2917.	6.0	75
10	Electrocatalytic Hydrogen Evolution under Densely Buffered Neutral pH Conditions. Journal of Physical Chemistry C, 2015, 119, 20453-20458.	3.1	66
11	Boosting the Performance of the Nickel Anode in the Oxygen Evolution Reaction by Simple Electrochemical Activation. Angewandte Chemie - International Edition, 2017, 56, 5061-5065.	13.8	63
12	Microfabricated electrodes unravel the role of interfaces in multicomponent copper-based CO2 reduction catalysts. Nature Communications, 2018, 9, 1477.	12.8	60
13	Origin of the Selective Electroreduction of Carbon Dioxide to Formate by Chalcogen Modified Copper. Journal of Physical Chemistry Letters, 2018, 9, 7153-7159.	4.6	57
14	Low temperature hydrogen production by catalytic steam reforming of methane in an electric field. International Journal of Hydrogen Energy, 2013, 38, 3003-3011.	7.1	53
15	Microkinetic assessment of electrocatalytic oxygen evolution reaction over iridium oxide in unbuffered conditions. Journal of Catalysis, 2020, 391, 435-445.	6.2	52
16	Electrolyte Engineering towards Efficient Water Splitting at Mild pH. ChemSusChem, 2017, 10, 4155-4162.	6.8	51
17	Enhanced Kinetics of Hole Transfer and Electrocatalysis during Photocatalytic Oxygen Evolution by Cocatalyst Tuning. ACS Catalysis, 2016, 6, 4117-4126.	11.2	48
18	Mechanistic Switching by Hydronium Ion Activity for Hydrogen Evolution and Oxidation over Polvcrvstalline Platinum Disk and Platinum/Carbon Electrodes. ChemElectroChem. 2014, 1, 1497-1507.	3.4	46

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19	Exclusive Hydrogen Generation by Electrocatalysts Coated with an Amorphous Chromium-Based Layer Achieving Efficient Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 8079-8088.	6.7	44
20	New Insight into the Hydrogen Evolution Reaction under Buffered Near-Neutral pH Conditions: Enthalpy and Entropy of Activation. Journal of Physical Chemistry C, 2016, 120, 24187-24196.	3.1	41
21	Methane Conversion Assisted by Plasma or Electric Field. Journal of the Japan Petroleum Institute, 2013, 56, 11-21.	0.6	38
22	Electrolyte Engineering toward Efficient Hydrogen Production Electrocatalysis with Oxygen-Crossover Regulation under Densely Buffered Near-Neutral pH Conditions. Journal of Physical Chemistry C, 2016, 120, 1785-1794.	3.1	31
23	Identification of intrinsic catalytic activity for electrochemical reduction of water molecules to generate hydrogen. Physical Chemistry Chemical Physics, 2015, 17, 15111-15114.	2.8	30
24	Water Electrolysis in Saturated Phosphate Buffer at Neutral pH. ChemSusChem, 2020, 13, 5921-5933.	6.8	29
25	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO <sub>2</sub> to CO. ACS Catalysis, 2021, 11, 6499-6509.	11.2	27
26	Impact of solute concentration on the electrocatalytic conversion of dissolved gases in buffered solutions. Journal of Power Sources, 2015, 287, 465-471.	7.8	26
27	A miniature solar device for overall water splitting consisting of series-connected spherical silicon solar cells. Scientific Reports, 2016, 6, 24633.	3.3	25
28	Photophysics and electrochemistry relevant to photocatalytic water splitting involved at solid–electrolyte interfaces. Journal of Energy Chemistry, 2017, 26, 259-269.	12.9	20
29	Delivering the Full Potential of Oxygen Evolving Electrocatalyst by Conditioning Electrolytes at Nearâ€Neutral pH. ChemSusChem, 2021, 14, 1554-1564.	6.8	20
30	Boosting the Performance of the Nickel Anode in the Oxygen Evolution Reaction by Simple Electrochemical Activation. Angewandte Chemie, 2017, 129, 5143-5147.	2.0	19
31	Contribution of electrolyte in nanoscale electrolysis of pure and buffered water by particulate photocatalysis. Sustainable Energy and Fuels, 2018, 2, 2044-2052.	4.9	18
32	An Oxygenâ€Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenumâ€Based Layer for Overall Water Splitting. Angewandte Chemie, 2017, 129, 5874-5878.	2.0	13
33	Gas Crossover Regulation by Porosityâ€Controlled Glass Sheet Achieves Pure Hydrogen Production by Buffered Water Electrolysis at Neutral pH. ChemSusChem, 2022, 15, e202102294.	6.8	13
34	Generation of Transparent Oxygen Evolution Electrode Consisting of Regularly Ordered Nanoparticles from Self-Assembly Cobalt Phthalocyanine as a Template. ACS Applied Materials & Interfaces, 2016, 8, 32376-32384.	8.0	12
35	High current density microkinetic and electronic structure analysis of CO2 reduction using Co and Fe complexes on gas diffusion electrode. Chem Catalysis, 2022, 2, 1143-1162.	6.1	11
36	Switching of Kinetically Relevant Reactants for the Aqueous Cathodic Process Determined by Massâ€ŧransport Coupled with Protolysis. ChemCatChem, 2019, 11, 5961-5968.	3.7	10

#	Article	IF	CITATIONS
37	Oxidative-Coupling-Assisted Methane Aromatization: A Simulation Study. Industrial & Engineering Chemistry Research, 2019, 58, 22884-22892.	3.7	8
38	Determination and perturbation of the electronic potentials of solid catalysts for innovative catalysis. Chemical Science, 2021, 12, 540-545.	7.4	7
39	Electrolyte Engineering towards Efficient Water Splitting at Mild pH. ChemSusChem, 2017, 10, 4122-4122.	6.8	4
40	(Digital Presentation) Nickel-Iron Electrocatalysts Modified with Group 11 Metals Achieving 1 A cm <sup>â^2</sup> of Oxygen Evolution in Buffered Near-Neutral pH Electrolyte. ECS Meeting Abstracts, 2022, MA2022-01, 1557-1557.	0.0	0