

# Yoshikazu Ito

## List of Publications by Citations

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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.

94  
papers

5,289  
citations

38  
h-index

72  
g-index

104  
ext. papers

6,255  
ext. citations

10.6  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
94	High catalytic activity of nitrogen and sulfur co-doped nanoporous graphene in the hydrogen evolution reaction. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2131-6	16.4	641
93	Multifunctional Porous Graphene for High-Efficiency Steam Generation by Heat Localization. <i>Advanced Materials</i> , <b>2015</b> , 27, 4302-7	24	597
92	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14031-5	16.4	480
91	Monolayer MoS <sub>2</sub> films supported by 3D nanoporous metals for high-efficiency electrocatalytic hydrogen production. <i>Advanced Materials</i> , <b>2014</b> , 26, 8023-8	24	262
90	Bicontinuous nanoporous N-doped graphene for the oxygen reduction reaction. <i>Advanced Materials</i> , <b>2014</b> , 26, 4145-50	24	229
89	High-quality three-dimensional nanoporous graphene. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4822-6	16.4	184
88	3D Nanoporous Nitrogen-Doped Graphene with Encapsulated RuO <sub>2</sub> Nanoparticles for Li-O <sub>2</sub> Batteries. <i>Advanced Materials</i> , <b>2015</b> , 27, 6137-43	24	174
87	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900843	24	170
86	Chemically exfoliated ReS <sub>2</sub> nanosheets. <i>Nanoscale</i> , <b>2014</b> , 6, 12458-62	7.7	136
85	High Catalytic Activity of Nitrogen and Sulfur Co-Doped Nanoporous Graphene in the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2159-2164	3.6	118
84	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501870	21.8	116
83	Bicontinuous nanotubular graphene/polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 19, 391-400	17.1	114
82	Chemical vapor deposition of N-doped graphene and carbon films: the role of precursors and gas phase. <i>ACS Nano</i> , <b>2014</b> , 8, 3337-46	16.7	107
81	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 10644-10651	24	88
80	Chemical Vapor Deposition of Monolayer Mo(1-x)W(x)S <sub>2</sub> Crystals with Tunable Band Gaps. <i>Scientific Reports</i> , <b>2016</b> , 6, 21536	4.9	80
79	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 275	17.4	74
78	Cooperation between holey graphene and NiMo alloy for hydrogen evolution in an acidic electrolyte. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3579-3586	13.1	69

77	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14237-14241	3.6	69
76	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3601-3608	16.4	65
75	Boosting electrochemical water splitting via ternary NiMoCo hybrid nanowire arrays. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2156-2164	13	61
74	Chemical Dopants on Edge of Holey Graphene Accelerate Electrochemical Hydrogen Evolution Reaction. <i>Advanced Science</i> , <b>2019</b> , 6, 1900119	13.6	59
73	Tuning the Magnetic Properties of Carbon by Nitrogen Doping of Its Graphene Domains. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7678-85	16.4	59
72	Full Performance Nanoporous Graphene Based Li-O <sub>2</sub> Batteries through Solution Phase Oxygen Reduction and Redox-Additive Mediated Li <sub>2</sub> O <sub>2</sub> Oxidation. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601933	21.8	57
71	On-Chip Micro-Pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , <b>2015</b> , 2, 1500067	13.6	57
70	Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage. <i>Nano Energy</i> , <b>2018</b> , 49, 354-362	17.1	54
69	Near room temperature chemical vapor deposition of graphene with diluted methane and molten gallium catalyst. <i>Scientific Reports</i> , <b>2017</b> , 7, 12371	4.9	53
68	Hierarchical nanoporous nickel alloy as three-dimensional electrodes for high-efficiency energy storage. <i>Scripta Materialia</i> , <b>2014</b> , 89, 69-72	5.6	52
67	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13302-13307	16.4	51
66	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , <b>2019</b> , 5, eaat6951	14.3	49
65	Synthesizing 1T-1H Two-Phase MoWS Monolayers by Chemical Vapor Deposition. <i>ACS Nano</i> , <b>2018</b> , 12, 1571-1579	16.7	48
64	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , <b>2018</b> , 45, 273-279	17.1	45
63	Anchoring Mo single atoms/clusters and N on edge-rich nanoporous holey graphene as bifunctional air electrode in Zn  air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 276, 119172	21.8	44
62	Graphene Layer Encapsulation of Non-Noble Metal Nanoparticles as Acid-Stable Hydrogen Evolution Catalysts. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1539-1544	20.1	43
61	High-Quality Three-Dimensional Nanoporous Graphene. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4922-4926	3.6	43
60	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based Li-O <sub>2</sub> battery. <i>Scientific Reports</i> , <b>2016</b> , 6, 33466	4.9	42

59	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14885	17.4	40
58	3D Bicontinuous Nanoporous Reduced Graphene Oxide for Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1271-1277	15.6	39
57	Effect of Graphene Encapsulation of NiMo Alloys on Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 792-799	13.1	38
56	Acceleration of Electrochemical CO <sub>2</sub> Reduction to Formate at the Sn/Reduced Graphene Oxide Interface. <i>ACS Catalysis</i> , <b>2021</b> , 11, 3310-3318	13.1	32
55	Three-dimensional porous graphene networks expand graphene-based electronic device applications. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 6024-6033	3.6	31
54	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. <i>Advanced Materials</i> , <b>2016</b> , 28, 10304-10310	24	30
53	Topology and doping effects in three-dimensional nanoporous graphene. <i>Carbon</i> , <b>2018</b> , 131, 258-265	10.4	27
52	Catalytic activity of graphene-covered non-noble metals governed by proton penetration in electrochemical hydrogen evolution reaction. <i>Nature Communications</i> , <b>2021</b> , 12, 203	17.4	26
51	Dealloying Kinetics of AgAu Nanoparticles by Liquid-Cell Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2020</b> , 20, 1944-1951	11.5	24
50	Transfer hydrogenation of alkenes using Ni/Ru/Pt/Au heteroquatermetallic nanoparticle catalysts: sequential cooperation of multiple nano-metal species. <i>Chemical Communications</i> , <b>2014</b> , 50, 12123-6	5.8	23
49	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. <i>ACS Omega</i> , <b>2017</b> , 2, 3691-3697	3.9	22
48	Bottom-up Synthesis of Porous NiMo Alloy for Hydrogen Evolution Reaction. <i>Metals</i> , <b>2018</b> , 8, 83	2.3	21
47	Tetramethoxypyrene-based biradical donors with tunable physical and magnetic properties. <i>Organic Letters</i> , <b>2013</b> , 15, 4280-3	6.2	21
46	Nanoporous Metal Papers for Scalable Hierarchical Electrode. <i>Advanced Science</i> , <b>2015</b> , 2, 1500086	13.6	21
45	Operando characterization of cathodic reactions in a liquid-state lithium-oxygen micro-battery by scanning transmission electron microscopy. <i>Scientific Reports</i> , <b>2018</b> , 8, 3134	4.9	20
44	Nanoporous ultra-high-entropy alloys containing fourteen elements for water splitting electrocatalysis. <i>Chemical Science</i> , <b>2021</b> , 12, 11306-11315	9.4	19
43	Building a Reactive Armor Using S-Doped Graphene for Protecting Potassium Metal Anodes from Oxygen Crossover in K <sub>2</sub> O Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1788-1793	20.1	16
42	Earth-Abundant and Durable Nanoporous Catalyst for Exhaust-Gas Conversion. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1609-1616	15.6	15

41	Phase-Dependent Reactivity of Nickel Molybdates for Electrocatalytic Urea Oxidation. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7535-7542	6.1	14
40	Magnetic Properties of FeBd Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11699-11703	3.8	13
39	Breaking the semi-quinoid structure: spin-switching from strongly coupled singlet to polarized triplet state. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 12041-5	4.8	12
38	Magnetic sponge prepared with an alkanedithiol-bridged network of nanomagnets. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11470-3	16.4	12
37	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. <i>Nanoscale</i> , <b>2016</b> , 8, 18551-18557	7.7	11
36	High-Resolution Electrochemical Mapping of the Hydrogen Evolution Reaction on Transition-Metal Dichalcogenide Nanosheets. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3629-3636	3.6	10
35	Dirac Fermion Kinetics in 3D Curved Graphene. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005838	24	10
34	Crystal Engineering of Tolane Bridged Nitronyl Nitroxide Biradicals: Candidates for Quantum Magnets. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 5840-5846	3.5	9
33	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13486-13491	3.6	8
32	Pd Nanoparticle Embedded with Only One Co Atom Behaves as a Single-Particle Magnet. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 103701	1.5	8
31	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis <b>2022</b> , 4, 181-189		8
30	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103632	15.6	8
29	Graphene@Nanoporous Nickel Cathode for LiD2 Batteries. <i>ChemNanoMat</i> , <b>2016</b> , 2, 176-181	3.5	8
28	Fabrication of graphene/MoS2 alternately stacked structure for enhanced lithium storage. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 121987	4.4	8
27	Chemical Selectivity at Grain Boundary Dislocations in Monolayer MoWS Transition Metal Dichalcogenides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29438-29444	9.5	7
26	Bimetallic CoBd alloy nanoparticles as magnetically recoverable catalysts for the aerobic oxidation of alcohols in water. <i>Tetrahedron</i> , <b>2014</b> , 70, 6146-6149	2.4	7
25	Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene. <i>Nanotechnology</i> , <b>2021</b> , 32, 035707	3.4	7
24	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. <i>Nanoscale</i> , <b>2021</b> , 13, 10916-10924	7.7	7

23	One-step Nanoporous Structure Formation Using NiO Nanoparticles: Pore Size Control and Pore Size Dependence of Hydrogen Evolution Reaction. <i>Chemistry Letters</i> , <b>2017</b> , 46, 267-270	1.7	6
22	Anomalous metallic-like transport of Co-Pd ferromagnetic nanoparticles cross-linked with $\pi$ -conjugated molecules having a rotational degree of freedom. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 288-96	3.6	6
21	Classes of Nanomagnets Created from Alkanethiol-Coated Pt or Pd Nanoparticles and Their Alloys with Co. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 4279-4287	2.3	6
20	Polyethylene Glycol Covered Sn Catalysts Accelerate the Formation Rate of Formate by Carbon Dioxide Reduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 9962-9969	13.1	6
19	Enhanced bifunctional catalytic activities of N-doped graphene by Ni in a 3D trimodal nanoporous nanotubular network and its ultralong cycling performance in Zn-air batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 466-473	12	5
18	Deuterium Adsorption on Free-Standing Graphene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
17	Fabrication of high-strength carbon nanotube bundles using iron oxides co-assisted chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 023106	3.4	4
16	Ferromagnetic Enhancement in the Clusters of Co/Pd Magnetic Nanoparticles Induced by the Formation of Cross-Linkage. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8971-8975	3.8	4
15	Damage-Free Solar Dewatering of Micro-Algal Concentrates via Multifunctional Hierarchical Porous Graphene. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900045	5.9	3
14	Shape Sensitivity on Toxicity of Gold Nanoplates in Breast Cancer Cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 9520-30	1.3	3
13	Bismuth/Porous Graphene Heterostructures for Ultrasensitive Detection of Cd (II). <i>Materials</i> , <b>2020</b> , 13,	3.5	3
12	Phase-Dependent Electrochemical CO <sub>2</sub> Reduction Ability of NiSn Alloys for Formate Generation. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7122-7128	6.1	3
11	Geometric model of 3D curved graphene with chemical dopants. <i>Carbon</i> , <b>2021</b> , 182, 223-232	10.4	3
10	Disordered photonics behavior from terahertz to ultraviolet of a three-dimensional graphene network. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	2
9	Corrosion-resistant non-noble metal electrodes for PEM-type water electrolyzer. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 38603-38611	6.7	2
8	One-Dimensional Atomic Segregation at Semiconductor-Metal Interfaces of Polymorphic Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , <b>2018</b> , 18, 6157-6163	11.5	2
7	2D MoS <sub>2</sub> Heterostructures on Epitaxial and Self-Standing Graphene for Energy Storage: From Growth Mechanism to Application. <i>Advanced Materials Technologies</i> , 2100963	6.8	1
6	Recyclable Clay-Supported Heteropolyacid Catalysts for Complete Glycolysis and Aminolysis of Post-consumer PET Beverage Bottles. <i>Journal of Polymers and the Environment</i> , 1	4.5	0

- 5 Terahertz and infrared response assisted by heat localization in nanoporous graphene. *Carbon*, **2021**, 173, 403-409 10.4 0
- 4 Development and application of scanning electrochemical cell microscope for electrochemical imaging of catalytic active sites. *Denki Kagaku*, **2020**, 88, 229-234 0
- 3 Improved graphene applications made possible by 3D graphene structures. *Tanso*, **2018**, 2018, 8-15 0.1
- 2 High-sensitivity visualization of localized electric fields using low-energy electron beam deflection. *Japanese Journal of Applied Physics*, **2018**, 57, 065201 1.4
- 1 Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries (Adv. Funct. Mater. 38/2021). *Advanced Functional Materials*, **2021**, 31, 2170284 15.6