

# Yoshikazu Ito

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1465897/yoshikazu-ito-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis <b>2022</b> , 4, 181-189		8
93	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
92	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
91	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
90	Towards free-standing graphene: atomic hydrogen and deuterium bonding to nano-porous graphene. <i>Nanotechnology</i> , <b>2021</b> , 32, 035707	3.4	7
89	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
88	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
87	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
86	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
85	Terahertz and infrared response assisted by heat localization in nanoporous graphene. <i>Carbon</i> , <b>2021</b> , 173, 403-409	10.4	0
84	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
83	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. <i>Nanoscale</i> , <b>2021</b> , 13, 10916-10924	7.7	7
82	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). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170284	15.6	
81	Geometric model of 3D curved graphene with chemical dopants. <i>Carbon</i> , <b>2021</b> , 182, 223-232	10.4	3
80	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
79	Deuterium Adsorption on Free-Standing Graphene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
78	Building a Reactive Armor Using S-Doped Graphene for Protecting Potassium Metal Anodes from Oxygen Crossover in K <sub>2</sub> O <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1788-1793	20.1	16

77	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
76	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
75	Development and application of scanning electrochemical cell microscope for electrochemical imaging of catalytic active sites. <i>Denki Kagaku</i> , <b>2020</b> , 88, 229-234	0	
74	Effect of Graphene Encapsulation of NiMo Alloys on Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 792-799	13.1	38
73	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
72	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
71	Bismuth/Porous Graphene Heterostructures for Ultrasensitive Detection of Cd (II). <i>Materials</i> , <b>2020</b> , 13,	3.5	3
70	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
69	Dirac Fermion Kinetics in 3D Curved Graphene. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005838	24	10
68	Fabrication of graphene/MoS <sub>2</sub> alternately stacked structure for enhanced lithium storage. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 121987	4.4	8
67	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
66	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
65	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
64	Chemical Dopants on Edge of Holey Graphene Accelerate Electrochemical Hydrogen Evolution Reaction. <i>Advanced Science</i> , <b>2019</b> , 6, 1900119	13.6	59
63	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , <b>2019</b> , 5, eaat6951	14.3	49
62	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
61	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 275	17.4	74
60	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

59	Topology and doping effects in three-dimensional nanoporous graphene. <i>Carbon</i> , <b>2018</b> , 131, 258-265	10.4	27
58	Synthesizing 1T-1H Two-Phase MoWS Monolayers by Chemical Vapor Deposition. <i>ACS Nano</i> , <b>2018</b> , 12, 1571-1579	16.7	48
57	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
56	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , <b>2018</b> , 45, 273-279	17.1	45
55	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
54	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
53	Bottom-up Synthesis of Porous NiMo Alloy for Hydrogen Evolution Reaction. <i>Metals</i> , <b>2018</b> , 8, 83	2.3	21
52	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
51	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
50	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
49	Improved graphene applications made possible by 3D graphene structures. <i>Tanso</i> , <b>2018</b> , 2018, 8-15	0.1	
48	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
47	High-sensitivity visualization of localized electric fields using low-energy electron beam deflection. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 065201	1.4	
46	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
45	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14885	17.4	40
44	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
43	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
42	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

41	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. <i>ACS Omega</i> , <b>2017</b> , 2, 3691-3697	3.9	22
40	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
39	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
38	Bicontinuous nanotubular graphene/polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 19, 391-400	17.1	114
37	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
36	3D Bicontinuous Nanoporous Reduced Graphene Oxide for Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1271-1277	15.6	39
35	Graphene@Nanoporous Nickel Cathode for LiO <sub>2</sub> Batteries. <i>ChemNanoMat</i> , <b>2016</b> , 2, 176-181	3.5	8
34	Earth-Abundant and Durable Nanoporous Catalyst for Exhaust-Gas Conversion. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1609-1616	15.6	15
33	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. <i>Advanced Materials</i> , <b>2016</b> , 28, 10304-10310	24	30
32	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 10644-10651	24	88
31	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. <i>Nanoscale</i> , <b>2016</b> , 8, 18551-18557	7.7	11
30	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
29	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
28	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
27	On-Chip Micro-Pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , <b>2015</b> , 2, 1500067	13.6	57
26	Nanoporous Metal Papers for Scalable Hierarchical Electrode. <i>Advanced Science</i> , <b>2015</b> , 2, 1500086	13.6	21
25	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
24	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

23	Multifunctional Porous Graphene for High-Efficiency Steam Generation by Heat Localization. <i>Advanced Materials</i> , <b>2015</b> , 27, 4302-7	24	597
22	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
21	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
20	Bicontinuous nanoporous N-doped graphene for the oxygen reduction reaction. <i>Advanced Materials</i> , <b>2014</b> , 26, 4145-50	24	229
19	High-Quality Three-Dimensional Nanoporous Graphene. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4922-4926	3.6	43
18	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
17	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
16	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
15	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
14	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
13	Chemically exfoliated ReS <sub>2</sub> nanosheets. <i>Nanoscale</i> , <b>2014</b> , 6, 12458-62	7.7	136
12	Anomalous metallic-like transport of Co-Pd ferromagnetic nanoparticles cross-linked with E-conjugated molecules having a rotational degree of freedom. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 288-96	3.6	6
11	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
10	High-quality three-dimensional nanoporous graphene. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4822-6	16.4	184
9	Bimetallic CoPd 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
8	Tetramethoxypyrene-based biradical donors with tunable physical and magnetic properties. <i>Organic Letters</i> , <b>2013</b> , 15, 4280-3	6.2	21
7	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
6	Ferromagnetic Enhancement in the Clusters of CoPd 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

- 5 Magnetic Properties of FePd Alloy Nanoparticles. *Journal of Physical Chemistry C*, **2010**, 114, 11699-11703, 13
- 4 Classes of Nanomagnets Created from Alkanethiol-Coated Pt or Pd Nanoparticles and Their Alloys with Co. *European Journal of Inorganic Chemistry*, **2010**, 2010, 4279-4287 2,3 6
- 3 Pd Nanoparticle Embedded with Only One Co Atom Behaves as a Single-Particle Magnet. *Journal of the Physical Society of Japan*, **2008**, 77, 103701 1,5 8
- 2 Recyclable Clay-Supported Heteropolyacid Catalysts for Complete Glycolysis and Aminolysis of Post-consumer PET Beverage Bottles. *Journal of Polymers and the Environment*, 1 4,5 0
- 1 2D MoS<sub>2</sub> Heterostructures on Epitaxial and Self-Standing Graphene for Energy Storage: From Growth Mechanism to Application. *Advanced Materials Technologies*, 2100963 6,8 1