

Jun Maruyama

List of Publications by Year in descending order

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74
papers

2,587
citations

236833

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h-index

189801

50
g-index

75
all docs

75
docs citations

75
times ranked

3299
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-Laboratory Experimental Study of Non-Noble-Metal Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1623-1639.	4.0	655
2	Unprecedented CO ₂ uptake over highly porous N-doped activated carbon monoliths prepared by physical activation. <i>Chemical Communications</i> , 2012, 48, 10283.	2.2	252
3	Fabrication of mesoporous polymer monolith: a template-free approach. <i>Chemical Communications</i> , 2011, 47, 7422.	2.2	124
4	Influence of Nafion® film on the kinetics of anodic hydrogen oxidation. <i>Journal of Electroanalytical Chemistry</i> , 1998, 447, 201-209.	1.9	84
5	Preparation of carbonaceous adsorbents for removal of chloroform from drinking water. <i>Carbon</i> , 2001, 39, 1069-1073.	5.4	84
6	Formation of Platinum-Free Fuel Cell Cathode Catalyst with Highly Developed Nanospace by Carbonizing Catalase. <i>Chemistry of Materials</i> , 2005, 17, 4660-4667.	3.2	71
7	Rotating ring-disk electrode study on the cathodic oxygen reduction at Nafion®-coated gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1998, 458, 175-182.	1.9	66
8	Influence of anodic oxidation of glassy carbon surface on voltammetric behavior of Nafion®-coated glassy carbon electrodes. <i>Electrochimica Acta</i> , 2001, 46, 3381-3386.	2.6	66
9	Fuel Cell Cathode Catalyst with Heme-Like Structure Formed from Nitrogen of Glycine and Iron. <i>Journal of the Electrochemical Society</i> , 2007, 154, B297.	1.3	64
10	Synthesis of ordered carbonaceous frameworks from organic crystals. <i>Nature Communications</i> , 2017, 8, 109.	5.8	60
11	Nitrogen-doped biomass/polymer composite porous carbons for high performance supercapacitor. <i>Journal of Power Sources</i> , 2017, 364, 374-382.	4.0	59
12	Carbonized Hemoglobin Functioning as a Cathode Catalyst for Polymer Electrolyte Fuel Cells. <i>Chemistry of Materials</i> , 2006, 18, 1303-1311.	3.2	58
13	Influence of activated carbon pore structure on oxygen reduction at catalyst layers supported on rotating disk electrodes. <i>Carbon</i> , 2004, 42, 3115-3121.	5.4	55
14	Hemoglobin Pyropolymer Used as a Precursor of a Noble-Metal-Free Fuel Cell Cathode Catalyst. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2784-2790.	1.5	55
15	Application of conventional activated carbon loaded with dispersed Pt to PEFC catalyst layer. <i>Electrochimica Acta</i> , 2003, 48, 1443-1450.	2.6	44
16	Structure control of a carbon-based noble-metal-free fuel cell cathode catalyst leading to high power output. <i>Chemical Communications</i> , 2007, , 2879.	2.2	40
17	Application of nitrogen-rich amino acids to active site generation in oxygen reduction catalyst. <i>Journal of Power Sources</i> , 2008, 182, 489-495.	4.0	39
18	Two-Step Carbonization as a Method of Enhancing Catalytic Properties of Hemoglobin at the Fuel Cell Cathode. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6597-6600.	1.5	38

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19	Activated carbon monoliths derived from bacterial cellulose/polyacrylonitrile composite as new generation electrode materials in EDLC. <i>Carbohydrate Polymers</i> , 2018, 200, 381-390.	5.1	31
20	Cathodic oxygen reduction at the interface between Nafion [®] and electrochemically oxidized glassy carbon surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2002, 527, 65-70.	1.9	30
21	Use of purine and pyrimidine bases as nitrogen sources of active site in oxygen reduction catalyst. <i>Journal of Power Sources</i> , 2009, 194, 655-661.	4.0	29
22	Effect of fluorinated alcohol on the kinetics of cathodic oxygen reduction at gold electrodes. <i>Electrochimica Acta</i> , 1999, 45, 415-422.	2.6	28
23	Hydrogen oxidation on partially immersed Nafion [®] -coated electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 417, 105-111.	1.9	26
24	Cathodic oxygen reduction at the catalyst layer formed from Pt/carbon with adsorbed water. <i>Journal of Electroanalytical Chemistry</i> , 2003, 545, 109-115.	1.9	26
25	Effects of the molecular structure of fluorinated additives on the kinetics of cathodic oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , 2001, 504, 208-216.	1.9	25
26	Mechanism of Dioxovanadium Ion Reduction on Oxygen-Enriched Carbon Surface. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1293-A1298.	1.3	24
27	Heat Treatment of Carbonized Hemoglobin with Ammonia for Enhancement of Pore Development and Oxygen Reduction Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 493-499.	3.2	23
28	Boron and nitrogen co-doped ordered microporous carbons with high surface areas. <i>Chemical Communications</i> , 2017, 53, 13348-13351.	2.2	21
29	Enhancement of oxygen reduction at Fe tetrapyrrolyl porphyrin by pyridyl-N coordination to transition metal ions. <i>Electrochimica Acta</i> , 2012, 63, 16-21.	2.6	20
30	Efficient Edge Plane Exposure on Graphitic Carbon Fiber for Enhanced Flow-Battery Reactions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24425-24433.	1.5	20
31	Pore Development in Carbonized Hemoglobin by Concurrently Generated MgO Template for Activity Enhancement as Fuel Cell Cathode Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4837-4843.	4.0	18
32	Ordered mesoporous structure by graphitized carbon nanowall assembly. <i>Carbon</i> , 2018, 126, 452-455.	5.4	18
33	Fabrication of N-doped and shape-controlled porous monolithic carbons from polyacrylonitrile for supercapacitors. <i>RSC Advances</i> , 2017, 7, 43172-43180.	1.7	17
34	Enhanced hydrogen chemisorption and spillover on non-metallic nickel subnanoclusters. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12523-12531.	5.2	17
35	Bottom-up synthesis of 2D layered high-entropy transition metal hydroxides. <i>Nanoscale Advances</i> , 2022, 4, 2468-2478.	2.2	17
36	Vanadium Ion Redox Reactions in a Three-Dimensional Network of Reduced Graphite Oxide. <i>ChemElectroChem</i> , 2016, 3, 650-657.	1.7	16

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37	Carbonaceous Hydrogen Evolution Catalyst Containing Cobalt Surrounded by a Tuned Local Structure. <i>ChemCatChem</i> , 2014, 6, 2197-2200.	1.8	15
38	Hierarchical Activated Green Carbons from Abundant Biomass Waste for Symmetric Supercapacitors. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1058-1066.	2.0	15
39	Silica-pillared graphene sheets with iron-nitrogen units as an oxygen reduction catalyst. <i>Carbon</i> , 2014, 66, 327-333.	5.4	14
40	Preparation of Activated Carbon by KOH Activation from <i>Amygdalus Pedunculata</i> Shell and its Application for Electric Double-layer Capacitor. <i>Electrochemistry</i> , 2015, 83, 351-353.	0.6	14
41	Enhancement effect of an adsorbed organic acid on oxygen reduction at various types of activated carbon loaded with platinum. <i>Journal of Power Sources</i> , 2005, 148, 1-8.	4.0	13
42	One-pot hybrid physical-chemical vapor deposition for formation of carbonaceous thin film with catalytic activity for oxygen reduction. <i>Electrochemistry Communications</i> , 2011, 13, 1451-1454.	2.3	13
43	Hydrogen Evolution by Carbonaceous Nanoparticle Aggregates that were derived from Cobalt Phthalocyanine. <i>ChemCatChem</i> , 2013, 5, 130-133.	1.8	12
44	Effective Utilization of Nanospaces in Activated Carbon for Enhancing Catalytic Activity in Fuel Cell Electrodes. <i>Journal of the Electrochemical Society</i> , 2004, 151, A447.	1.3	11
45	Catalysis of Vanadium Ion Redox Reactions on Carbonaceous Material with Metal-N ₄ Sites. <i>ChemCatChem</i> , 2015, 7, 2305-2308.	1.8	11
46	Direct synthesis of a carbonaceous fuel cell catalyst from solid containing small organic molecules and metal salts. <i>Carbon</i> , 2010, 48, 3271-3276.	5.4	10
47	Carbonaceous thin film coated on nanoparticle as fuel cell catalyst formed by one-pot hybrid physical-chemical vapor deposition of iron phthalocyanine. <i>Electrochimica Acta</i> , 2013, 90, 366-374.	2.6	10
48	Force-responsive ordered carbonaceous frameworks synthesized from Ni-porphyrin. <i>Chemical Communications</i> , 2021, 57, 6007-6010.	2.2	10
49	Activated Carbon Monolith Derived from <i>Amygdalus Pedunculata</i> Shell and Polyacrylonitrile for Supercapacitors. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1333-1336.	2.0	9
50	Carbon Surface Oxidation by Short-Term Ozone Treatment for Modeling Long-Term Degradation of Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2009, 156, A181.	1.3	8
51	A carbonaceous two-dimensional lattice with FeN ₄ units. <i>Chemical Communications</i> , 2018, 54, 8995-8998.	2.2	8
52	Bifunctional Oxygen Electrodes with Highly Step-Enriched Surface of Fe-N _x Containing Carbonaceous Thin Film. <i>Journal of the Electrochemical Society</i> , 2020, 167, 060504.	1.3	8
53	Porosity-Induced Improvement in KOH Activation of Chitin Nanofiber-Based Porous Carbon Leading to Ultrahigh Specific Capacitance. <i>ChemSusChem</i> , 2022, 15, .	3.6	8
54	Performance of PEFC Formed by Using Pt-Loaded Activated Carbon under High- and Low-Humidity Conditions. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1181.	1.3	7

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55	Carbonaceous thin film coating with Fe-N 4 site for enhancement of dioxovanadium ion reduction. <i>Journal of Power Sources</i> , 2016, 324, 521-527.	4.0	7
56	Fused sphere carbon monoliths with honeycomb-like porosity from cellulose nanofibers for oil and water separation. <i>RSC Advances</i> , 2021, 11, 2202-2212.	1.7	7
57	Integrating polyacrylonitrile (PAN) nanoparticles with porous bacterial cellulose hydrogel to produce activated carbon electrodes for electric double-layer capacitors. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111209.	2.2	7
58	Double Layer Capacitance Properties of Monodisperse Carbon Particles with High Porosity Derived from Polyacrylonitrile Synthesized by Dispersion Polymerization. <i>Electrochemistry</i> , 2015, 83, 348-350.	0.6	6
59	Nanoscope Combination of Edge and Flat Planes in the Active Site for Oxygen Reduction and Evolution. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4117-4121.	1.0	6
60	Catalyst Layer Structures for Enhancement of Redox Reactions of V(IV/V) Ions. <i>Electrochimica Acta</i> , 2016, 210, 854-861.	2.6	5
61	Concurrent nanoscale surface etching and SnO ₂ loading of carbon fibers for vanadium ion redox enhancement. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 985-992.	1.5	5
62	Performance of Polymer Electrolyte Fuel Cell Formed from Pt-loaded Activated Carbon with Various Pore Structures. <i>Electrochemistry</i> , 2007, 75, 119-121.	0.6	4
63	The Capacitor Properties of KOH Activated Porous Carbon Beads Derived from Polyacrylonitrile. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 832-839.	2.0	4
64	Helical Pore Alignment on Cylindrical Carbon. <i>Small</i> , 2020, 16, 1905916.	5.2	4
65	Fabrication and Electrochemical Capacitive Behaviors of a Carbon Nanotube-Coated Polymer Monolith. <i>Electrochemistry</i> , 2013, 81, 789-791.	0.6	3
66	Carbonaceous Oxygen Reduction Catalyst Formed from Phthalonitrile Derivatives Using Cobalt Chloride as Template Source. <i>Journal of the Electrochemical Society</i> , 2015, 162, F442-F448.	1.3	2
67	Central metal dependent modulation of induced-fit gas uptake in molecular porphyrin solids. <i>Chemical Communications</i> , 2018, 54, 7822-7825.	2.2	2
68	Electric Double Layer Capacitors Based on Polyacrylonitrile-derived Porous Carbon Beads: Effects of Particle Size and Composite. <i>Electrochemistry</i> , 2019, 87, 119-122.	0.6	2
69	Graphitic Carbon Materials with Various Nanostructures Decorated with Fe-N-C Catalytically Active Sites for Air Electrodes. <i>Electrocatalysis</i> , 2022, 13, 219-229.	1.5	2
70	Factors for Active Site Generation and Pore Development in Fuel Cell Catalysts Formed from Glucose/Nitrogen Source/Fe Salts. <i>Electrochemistry</i> , 2011, 79, 318-321.	0.6	1
71	Indirect fuel cell based on a redox-flow battery with a new structure to avoid cross-contamination toward the non-use of noble metals. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27046-27055.	3.8	1
72	Double Coating of Iron-Containing Carbonaceous Thin Film for Enhanced Bifunctional Catalysis for Use in Air Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160520.	1.3	1

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73	Helically Aligned Fused Carbon Hollow Nanospheres with Chiral Discrimination Ability. <i>Nanoscale</i> , 2022, , .	2.8	1
74	Facile Synthesis of Templated Activated Carbon from Cellulose Nanofibers and MgO Nanoparticles via Integrated Carbonization-activation Method as an Eco-friendly Supercapacitor. <i>Electrochemistry</i> , 2022, 90, 077004-077004.	0.6	1