

Jun-ichi Ozaki

List of Publications by Year in Descending Order

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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.

97
papers

4,090
citations

28
h-index

63
g-index

107
ext. papers

4,427
ext. citations

5.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
97	Preparation of Chemically Structure-Controlled BN-Doped Carbons for the Molecular Understanding of Their Surface Active Sites for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2022 , 12, 1288-1297	13.1	2
96	In-Depth Analysis of Key Factors Affecting the Catalysis of Oxidized Carbon Blacks for Cellulose Hydrolysis. <i>ACS Catalysis</i> , 2022 , 12, 892-905	13.1	1
95	Modulation of the electronic state of carbon thin films by inorganic substrates. <i>Carbon</i> , 2022 , 196, 313-319	10.4	0
94	Can electrical conductivity be a characterization tool for low-temperature carbon?. <i>Tanso</i> , 2021 , 2021, 136-144	0.1	
93	Direct conversion of lignin to high-quality graphene-based materials catalytic carbonization.. <i>RSC Advances</i> , 2021 , 11, 18702-18707	3.7	1
92	Benzene hydrogenation activities of Ni catalyst supported on N- and B-doped carbons. <i>Diamond and Related Materials</i> , 2021 , 119, 108550	3.5	1
91	Understanding the chemical structure of carbon edge sites by using deuterium-labeled temperature-programmed desorption technique. <i>Carbon</i> , 2020 , 161, 343-349	10.4	9
90	Electrochemistry and Carbon Materials Chemistry: Preparation of Carbon-based Materials Using Controlled Carbonization for Advanced Electrochemical Applications. <i>Electrochemistry</i> , 2020 , 88, 343-345	1.2	
89	Synthesis of P- and N-doped carbon catalysts for the oxygen reduction reaction via controlled phosphoric acid treatment of folic acid. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1497-1510	3	5
88	An Ion-Sensitive Field Effect Transistor Using Metal-Coordinated Zeolite-Templated Carbons as a Three-Dimensional Graphene Nanoribbon Network. <i>Frontiers in Materials</i> , 2019 , 6,	4	5
87	Warped graphitic layers generated by oxidation of fullerene extraction residue and its oxygen reduction catalytic activity. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1391-1400	3	4
86	Chemical composition and structure of carbon surfaces and their influence on the activities of carbon catalysts for the oxygen reduction reaction. <i>Tanso</i> , 2019 , 2019, 195-203	0.1	
85	Influence of Low-temperature Oxidation on Structure of Coke Making Coal. <i>ISIJ International</i> , 2019 , 59, 1465-1472	1.7	1
84	Critical advancements in achieving high power and stable nonprecious metal catalyst-based MEAs for real-world proton exchange membrane fuel cell applications. <i>Science Advances</i> , 2018 , 4, eaar7180	14.3	117
83	An analysis of the molecular structure of graphite by estimating the small number of edge sites. <i>Tanso</i> , 2018 , 2018, 222-226	0.1	
82	Influence of Low-temperature Oxidation on Structure of Coke Making Coal. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2018 , 104, 401-408	0.5	2
81	New insights into non-precious metal catalyst layer designs for proton exchange membrane fuel cells: Improving performance and stability. <i>Journal of Power Sources</i> , 2017 , 344, 39-45	8.9	31

80	Synergistically enhanced oxygen reduction activity of iron-based nanoshell carbons by copper incorporation. <i>Carbon</i> , 2017 , 116, 591-598	10.4	11
79	Enhanced catalytic activity of nanoshell carbon co-doped with boron and nitrogen in the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15489-15496	6.7	26
78	Analyses of trace amounts of edge sites in natural graphite, synthetic graphite and high-temperature treated coke for the understanding of their carbon molecular structures. <i>Carbon</i> , 2017 , 125, 146-155	10.4	25
77	Single-Step Synthesis of WC Nanoparticle-Dispersed Carbon Electrocatalysts for Hydrogen Evolution Reactions Utilizing Phosphate Groups on Carbon Edge Sites. <i>ACS Omega</i> , 2016 , 1, 689-695	3.9	21
76	Mechanochemical Treatment of Precursors of Carbon-Nanoshell-Containing Catalysts for the Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H223-H227	3.9	1
75	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. <i>Journal of Power Sources</i> , 2016 , 318, 41-48	8.9	47
74	Electrochemical Properties of an Atomically Dispersed Platinum Catalyst Formed on a Heat-treated Carbon Support. <i>ChemistrySelect</i> , 2016 , 1, 3189-3196	1.8	3
73	Electrochemical oxygen reduction activity of intermediate onion-like carbon produced by the thermal transformation of nanodiamond. <i>Carbon</i> , 2015 , 87, 415-417	10.4	17
72	A review of the stability and durability of non-precious metal catalysts for the oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015 , 285, 334-348	8.9	365
71	Carbon Alloy Catalysts for Polymer Electrolyte Fuel Cells: Exploration of Materials and Understanding of Mechanisms. <i>Electrochemistry</i> , 2015 , 83, 319-325	1.2	5
70	The contribution of surface metal complexes to the catalytic activity of carbon nanoshell particles in an amorphous carbon matrix for the oxygen reduction reaction. <i>Tanso</i> , 2015 , 2015, 195-200	0.1	
69	Preparation of carbon alloy catalysts from humic acid and their activities for the oxygen reduction reaction. <i>Tanso</i> , 2015 , 2015, 94-100	0.1	1
68	Hard Carbon Anodes for Na-Ion Batteries: Toward a Practical Use. <i>ChemElectroChem</i> , 2015 , 2, 1917-1920	4.3	83
67	A quantitative analysis of carbon edge sites and an estimation of graphene sheet size in high-temperature treated, non-porous carbons. <i>Carbon</i> , 2014 , 80, 135-145	10.4	52
66	Effects of graphite oxide additions on the oxygen reduction reaction activity of a carbon alloy catalyst for a polymer electrolyte fuel cell cathode. <i>Tanso</i> , 2014 , 2014, 159-164	0.1	1
65	Development of carbon alloy catalysts for a polymer electrolyte fuel cell. <i>Tanso</i> , 2014 , 2014, 204-212	0.1	1
64	5.?????????????????????????. <i>Electrochemistry</i> , 2014 , 82, 191-195	1.2	
63	Probing carbon edge exposure of iron phthalocyanine-based oxygen reduction catalysts by soft X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2013 , 223, 30-35	8.9	16

62	Sculpture preparation of crystalline mesoporous carbons from nanoshell-containing carbon. <i>Carbon</i> , 2013 , 61, 537-542	10.4	3
61	Catalytic Carbons [Cathode Catalytic Carbons 2013 , 103-111		1
60	Nanoshell-Containing Carbon Cathode Catalyst for Proton Exchange Membrane Fuel Cell from Herbaceous Plants Lignin. <i>Smart Grid and Renewable Energy</i> , 2013 , 04, 10-15	0.4	3
59	Indirect contribution of transition metal towards oxygen reduction reaction activity in iron phthalocyanine-based carbon catalysts for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2012 , 74, 254-259	6.7	54
58	Effect of oxidative treatment of carbon black on electrochemical activity of cytochrome c. <i>Analytical Methods</i> , 2012 , 4, 1623	3.2	4
57	Influence of heat-treatment of Ketjen Black on the oxygen reduction reaction of Pt/C catalysts. <i>Journal of Power Sources</i> , 2012 , 220, 173-179	8.9	18
56	A quantitative analysis of a trace amount of hydrogen in high temperature heat-treated carbons. <i>Carbon</i> , 2012 , 50, 3310-3314	10.4	7
55	Formation of uniformly and finely dispersed nanoshells by carbonization of cobalt-coordinated oxine-formaldehyde resin and their electrochemical oxygen reduction activity. <i>Carbon</i> , 2012 , 50, 2941-2952	10.4	32
54	Carbon deposition on a Ni/Al ₂ O ₃ catalyst in low-temperature gasification using C ₆ -hydrocarbons as surrogate biomass tar. <i>Fuel Processing Technology</i> , 2012 , 102, 30-34	7.2	12
53	Role of residual transition-metal atoms in oxygen reduction reaction in cobalt phthalocyanine-based carbon cathode catalysts for polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 8346-8351	8.9	36
52	X-ray photoemission spectroscopy analysis of N-containing carbon-based cathode catalysts for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 1006-1011	8.9	92
51	Adsorption of cytochrome c on nanoshell carbon. <i>Carbon</i> , 2011 , 49, 4505-4510	10.4	7
50	Electronic Structures of Non-Pt Carbon Alloy Catalysts for Polymer Electrolyte Membrane Fuel Cells Revealed by Synchrotron Radiation Analyses. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1318, 1		1
49	Formation of non-planar carbon layers in naphthalene-pitch-derived carbon by addition of fullerene mixture and its influence on electrochemical oxygen reduction reaction. <i>Tanso</i> , 2011 , 2011, 102-104	0.1	11
48	Influence of Fe ₂ O ₃ and CaCO ₃ Addition on the Coking of Gooneylla Coal. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2010 , 96, 249-257	0.5	5
47	Electrochemical Oxygen Reduction on Carbon Nitride. <i>ECS Transactions</i> , 2010 , 28, 11-26	1	5
46	Electric Double-Layer Capacitors from Activated Carbon Derived from Black Liquor. <i>Energy & Fuels</i> , 2010 , 24, 1889-1893	4.1	21
45	Enhanced Catalytic Activity of Carbon Alloy Catalysts Codoped with Boron and Nitrogen for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8933-8937	3.8	66

44	Pt-free cathode catalysts prepared via multi-step pyrolysis of Fe phthalocyanine and phenolic resin for fuel cells. <i>Chemical Communications</i> , 2010 , 46, 6377-9	5.8	46
43	Preparation of Carbon Alloy Catalysts from a Polyhydroxyamide with Iron Phthalocyanine via a Poly-biphenylenebisoxazole Composite. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010 , 23, 459-464	0.7	5
42	Enhancement of oxygen reduction activity of nanoshell carbons by introducing nitrogen atoms from metal phthalocyanines. <i>Electrochimica Acta</i> , 2010 , 55, 1864-1871	6.7	153
41	Preparation of carbon alloy catalysts for polymer electrolyte fuel cells from nitrogen-containing rigid-rod polymers. <i>Journal of Power Sources</i> , 2010 , 195, 5947-5951	8.9	61
40	Nitrogen-Doped Carbon Materials Prepared by Ammoxidation as Solid Base Catalysts for Knoevenagel Condensation and Transesterification Reactions. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 1476-1484	5.6	83
39	Hydrogen production by steam reforming of acetic acid: Comparison of conventional supported metal catalysts and metal-incorporated mesoporous smectite-like catalysts. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 110-117	6.7	61
38	Study on Low CTE Materials for FC-BGA Substrate. <i>Journal of Japan Institute of Electronics Packaging</i> , 2010 , 13, 543-551	0.1	
37	The Role of Fe in the Preparation of Carbon Alloy Cathode Catalysts. <i>ECS Transactions</i> , 2009 , 25, 463-467	1	23
36	X-ray absorption analysis of nitrogen contribution to oxygen reduction reaction in carbon alloy cathode catalysts for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2009 , 187, 93-97	8.9	414
35	Dispersibility in organic solvents of nanosized silica particles used in semiconductor package substrates. <i>Chemical Engineering Journal</i> , 2009 , 155, 493-498	14.7	5
34	First-principles calculation of the electronic properties of graphene clusters doped with nitrogen and boron: Analysis of catalytic activity for the oxygen reduction reaction. <i>Physical Review B</i> , 2009 , 80,	3.3	169
33	Carbon Nitride as a Nonprecious Catalyst for Electrochemical Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20148-20151	3.8	313
32	Electrochemical behavior of carbon nanorod arrays having different graphene orientations and crystallinity. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4615		19
31	Novel N-Doped Carbon Cathode Catalyst for Polymer Electrolyte Membrane Fuel Cells Formed on Carbon Black. <i>Chemistry Letters</i> , 2009 , 38, 396-397	1.7	16
30	Electron microscopic studies on disintegration of core/shell polymer structure during heat treatment process in carbon nanotube preparation by polymer blend technique. <i>Tanso</i> , 2009 , 2009, 57-60	0.1	
29	Carbon Alloy Catalysts: Active Sites for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14706-14709	3.8	441
28	Investigation on Deactivation and Regeneration of a Commercial Ni/Al ₂ O ₃ Catalyst in Coal Volatile Decomposition. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 915-922	0.8	6
27	Preparation of BN-doped carbon blacks by mechanochemical alloying of carbon and h-BN and its use as a catalyst for the oxygen reduction. <i>Tanso</i> , 2007 , 2007, 153-157	0.1	13

26	Preparation and oxygen reduction activity of BN-doped carbons. <i>Carbon</i> , 2007 , 45, 1847-1853	10.4	286
25	Differences in the Coking and Non-coking Coals from the Standpoint of Carbon Structure. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2006 , 92, 157-163	0.5	4
24	Preparation of ZSM-5 nanoparticles supported on carbon substrate. <i>Carbon</i> , 2006 , 44, 1243-1249	10.4	6
23	Enhancement of oxygen reduction activity by carbonization of furan resin in the presence of phthalocyanines. <i>Carbon</i> , 2006 , 44, 1324-1326	10.4	102
22	Simultaneous doping of boron and nitrogen into a carbon to enhance its oxygen reduction activity in proton exchange membrane fuel cells. <i>Carbon</i> , 2006 , 44, 3358-3361	10.4	144
21	A study on pyrolysis and cross-link formation of poly(p-phenylene butadiyne) by thermoanalysis and spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006 , 77, 56-62	6	7
20	Structures, physicochemical properties and oxygen reduction activities of carbons derived from ferrocene-poly(furfuryl alcohol) mixtures. <i>Journal of Applied Electrochemistry</i> , 2006 , 36, 239-247	2.6	76
19	Carbon nanotubes prepared by meltspinning of core-shell polymer particles. <i>Tanso</i> , 2006 , 2006, 333-335	0.1	
18	Thermoforming of Textile Composite Pipe Fittings. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2003 , 46, 426-431		1
17	Enhanced photoresponse of carbonaceous film/silicon junctions by doping with bromanil. <i>Journal of Applied Physics</i> , 2002 , 91, 881-883	2.5	1
16	Preparation of Porous Carbon from Lithium Acetylide. <i>Tanso</i> , 2002 , 2002, 266-269	0.1	
15	H ₂ S decomposition activity of TS carbon derived from furan resin. <i>Carbon</i> , 2001 , 39, 1611-1612	10.4	10
14	Carbonization and Graphitization Behaviors of Fe-loaded Brown Coal and Electrocatalytic Activity of Derived Carbons. <i>Tanso</i> , 2001 , 2001, 161-165	0.1	2
13	FEM Deformation Analysis of Textile Composite Tubes in Thermoforming Process.. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2000 , 66, 2858-2863 ²		
12	A TG-MS study of poly(vinyl butyral)/phenol-formaldehyde resin blend fiber. <i>Carbon</i> , 2000 , 38, 1515-1519	0.4	23
11	Chemical Recycling of Phenol Resin by Supercritical Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 245-249	3.9	60
10	Carbonization of iron-treated Loy Yang coal. <i>Fuel</i> , 1999 , 78, 489-499	7.1	8
9	Effects of Ferrocene on Production of High Performance Carbon Electrodes from Poly(furfuryl alcohol). <i>Chemistry of Materials</i> , 1998 , 10, 3386-3392	9.6	28

8	Controlling Factor of Electrocatalytic Activity of Iron-containing Carbon Materials. <i>Chemistry Letters</i> , 1998 , 27, 573-574	1.7	13
7	Role of carboxyl groups in the disintegration of brown coal briquettes by water sorption. <i>Fuel Processing Technology</i> , 1997 , 50, 57-68	7.2	17
6	Effects of metal ions on the thermal decomposition of brown coal. <i>Fuel Processing Technology</i> , 1996 , 46, 183-194	7.2	44
5	Bulge forming of braided thermoplastic composite tubes under axial compression and internal pressure. <i>Polymer Composites</i> , 1996 , 17, 115-123	3	4
4	Effects of surface treatment on cation exchange properties of Australian brown coals. <i>Fuel Processing Technology</i> , 1995 , 43, 95-110	7.2	37
3	Electrochemical Behavior of Iron-Carbon Composites Prepared from Ferrocene-Poly (furfuryl Alcohol). <i>Tanso</i> , 1994 , 1994, 269-274	0.1	7
2	Dispersion and Optical Absorption of Au and Ag Particles Supported on an Amorphous SiO ₂ Substrate. <i>Journal of Colloid and Interface Science</i> , 1994 , 168, 473-477	9.3	13
1	The changes in the structure and some physical properties of mesocarbon microbeads by heat treatment. <i>Carbon</i> , 1987 , 25, 697-701	10.4	19