Kohei Miyazaki

List of Publications by Citations

121 papers	1,729 citations	24 h-index	37 g-index
139 ext. papers	1,973 ext. citations	4.4 avg, IF	4.93 L-index

#	Paper	IF	Citations
121	Electrochemical Lithium Intercalation into Graphite in Dimethyl Sulfoxide-Based Electrolytes: Effect of Solvation Structure of Lithium Ion. *Journal of Physical Chemistry C*, **2010**, 114, 11680-11685	3.8	125
120	Facile Preparation of Monolithic LiFePO4/Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. *Chemistry of Materials*, **2011**, 23, 5208-5216	9.6	77
119	Perovskite-type oxides La1−xSrxMnO3 for cathode catalysts in direct ethylene glycol alkaline fuel cells. *Journal of Power Sources*, **2008**, 178, 683-686	8.9	60
118	Electrochemical oxidation of highly oriented pyrolytic graphite during potential cycling in sulfuric acid solution. *Journal of Power Sources*, **2008**, 185, 740-746	8.9	55
117	New Magnesium-ion Conductive Electrolyte Solution Based on Triglyme for Reversible Magnesium Metal Deposition and Dissolution at Ambient Temperature. *Chemistry Letters*, **2014**, 43, 1788-1790	1.7	51
116	Origin of the Electrochemical Stability of Aqueous Concentrated Electrolyte Solutions. *Journal of the Electrochemical Society*, **2018**, 165, A3299-A3303	3.9	50
115	Catalytic Roles of Perovskite Oxides in Electrochemical Oxygen Reactions in Alkaline Media. *Journal of the Electrochemical Society*, **2014**, 161, F694-F697	3.9	48
114	Towards zinc-oxygen batteries with enhanced cycling stability: The benefit of anion-exchange ionomer for zinc sponge anodes. *Journal of Power Sources*, **2018**, 395, 195-204	8.9	48
113	Electrochemical characterization of single-layer MnO2 nanosheets as a high-capacitance pseudocapacitor electrode. *Journal of Materials Chemistry*, **2012**, 22, 14691		46
112	Suppression of Dendrite Formation of Zinc Electrodes by the Modification of Anion-Exchange Ionomer. *Electrochemistry*, **2012**, 80, 725-727	1.2	46
111	Electrochemical oxidation of ethylene glycol on Pt-based catalysts in alkaline solutions and quantitative analysis of intermediate products. *Electrochimica Acta*, **2011**, 56, 7610-7614	6.7	42
110	Effect of Graphite Orientation and Lithium Salt on Electronic Passivation of Highly Oriented Pyrolytic Graphite. *Journal of the Electrochemical Society*, **2012**, 159, A634-A641	3.9	42
109	Single-step synthesis of nano-sized perovskite-type oxide/carbon nanotube composites and their electrocatalytic oxygen-reduction activities. *Journal of Materials Chemistry*, **2011**, 21, 1913-1917		41
108	Use of layered double hydroxides to improve the triple phase boundary in anion-exchange membrane fuel cells. *Journal of Power Sources*, **2010**, 195, 6500-6503	8.9	36
107	Electrochemical intercalation of bis(fluorosulfonyl)amide anions into graphite from aqueous solutions. *Electrochemistry Communications*, **2019**, 100, 26-29	5.1	33
106	Novel Anode Catalyst Containing Gold Nanoparticles for Use in Direct Methanol Fuel Cells. *Journal of Physical Chemistry C*, **2007**, 111, 3171-3174	3.8	33
105	Role of edge orientation in kinetics of electrochemical intercalation of lithium-ion at graphite. *Langmuir*, **2010**, 26, 14990-4	4	32

104	Electrochemical properties of graphite electrode in propylene carbonate-based electrolytes containing lithium and calcium ions. *Electrochimica Acta*, **2011**, 56, 10450-10453	6.7	29
103	Electrochemical Intercalation/De-Intercalation of Lithium Ions at Graphite Negative Electrode in TMP-Based Electrolyte Solution. *Journal of the Electrochemical Society*, **2012**, 159, A2089-A2091	3.9	28
102	Kinetics of Lithium-Ion Transfer at the Interface between Li4Ti5O12 Thin Films and Organic Electrolytes. *ECS Electrochemistry Letters*, **2014**, 3, A83-A86		27
101	Lithium-ion transfer at the interfaces between LiCoO2 and LiMn2O4 thin film electrodes and organic electrolytes. *Journal of Power Sources*, **2015**, 294, 460-464	8.9	26
100	Electrochemical properties of LiCoPO4-thin film electrodes in LiF-based electrolyte solution with anion receptors. *Journal of Power Sources*, **2016**, 306, 753-757	8.9	26
99	Enhanced resistance to oxidative decomposition of aqueous electrolytes for aqueous lithium-ion batteries. *Chemical Communications*, **2016**, 52, 4979-82	5.8	25
98	Electrochemical Intercalation of Bis(fluorosulfonyl)amide Anion into Graphite. *Journal of the Electrochemical Society*, **2016**, 163, A499-A503	3.9	24
97	Electrochemical Oxidation of Highly Oriented Pyrolytic Graphite in Sulphuric Acid Solution under Potential Pulse Condition. *Fuel Cells*, **2009**, 9, 284-290	2.9	24
96	Observation of the intercalation of dimethyl sulfoxide-solvated lithium ion into graphite and decomposition of the ternary graphite intercalation compound using in situ Raman spectroscopy. *Electrochimica Acta*, **2018**, 265, 41-46	6.7	21
95	Influence of surfactants as additives to electrolyte solutions on zinc electrodeposition and potential oscillation behavior. *Journal of Applied Electrochemistry*, **2016**, 46, 1067-1073	2.6	21
94	Ion Transport in Organic Electrolyte Solution through the Pore Channels of Anodic Nanoporous Alumina Membranes. *Electrochimica Acta*, **2016**, 199, 380-387	6.7	21
93	In situ Raman investigation of electrolyte solutions in the vicinity of graphite negative electrodes. *Physical Chemistry Chemical Physics*, **2016**, 18, 27486-27492	3.6	20
92	Lithium-ion intercalation and deintercalation behaviors of graphitized carbon nanospheres. *Journal of Materials Chemistry A*, **2018**, 6, 1128-1137	13	19
91	Electrochemical lithium ion intercalation into graphite electrode in propylene carbonate-based electrolytes with dimethyl carbonate and calcium salt. *Journal of Power Sources*, **2013**, 238, 65-68	8.9	18
90	Electro-oxidation of Methanol on Gold Nanoparticles Supported on PtMoO[sub x]C. *Journal of the Electrochemical Society*, **2005**, 152, A1870	3.9	18
89	Influence of carbonaceous materials on electronic conduction in electrode-slurry. *Carbon*, **2017**, 122, 202-206	10.4	17
88	Lithium-Ion Transfer at the Interface between High Potential Negative Electrodes and Ionic Liquids. *Journal of the Electrochemical Society*, **2014**, 161, A1939-A1942	3.9	16
87	Strontium cobalt oxychlorides: enhanced electrocatalysts for oxygen reduction and evolution reactions. *Chemical Communications*, **2017**, 53, 2713-2716	5.8	15

86	Influence of Surface Orientation on the Catalytic Activities of La0.8Sr0.2CoO3 Crystal Electrodes for Oxygen Reduction and Evolution Reactions. *ChemElectroChem*, **2016**, 3, 214-217	4.3	15
85	Investigation of Electronic Resistance in Lithium-Ion Batteries by AC Impedance Spectroscopy. *Journal of the Electrochemical Society*, **2017**, 164, A3862-A3867	3.9	15
84	Surface Modification of Graphitized Carbonaceous Thin-Film Electrodes with Silver for Enhancement of Interfacial Lithium-Ion Transfer. *Journal of Physical Chemistry C*, **2012**, 116, 12422-12425	3.8	15
83	Electrochemical preparation of a lithium–graphite-intercalation compound in a dimethyl sulfoxide-based electrolyte containing calcium ions. *Carbon*, **2013**, 57, 232-238	10.4	15
82	Structural insights into ion conduction of layered double hydroxides with various proportions of trivalent cations. *Journal of Materials Chemistry A*, **2013**, 1, 14569	13	15
81	A tubulointerstitial nephritis antigen gene defect causes childhood-onset chronic renal failure. *Pediatric Nephrology*, **2010**, 25, 1349-53	3.2	15
80	Suppression of Co-Intercalation Reaction of Propylene Carbonate and Lithium Ion into Graphite Negative Electrode by Addition of Diglyme. *Journal of the Electrochemical Society*, **2016**, 163, A1265-A1269	3.9	15
79	Investigation of Electrochemical Sodium-Ion Intercalation Behavior into Graphite-Based Electrodes. *Journal of the Electrochemical Society*, **2019**, 166, A5323-A5327	3.9	15
78	Investigations of Electrochemically Active Regions in Bifunctional Air Electrodes Using Partially Immersed Platinum Electrodes. *Journal of the Electrochemical Society*, **2015**, 162, A1646-A1653	3.9	14
77	In Situ Measurement of Local pH at Working Electrodes in Neutral pH Solutions by the Rotating Ring-Disk Electrode Technique. *ChemElectroChem*, **2019**, 6, 4750-4756	4.3	13
76	Permeation of Polymethoxyflavones into the Mouse Brain and Their Effect on MK-801-Induced Locomotive Hyperactivity. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	13
75	Charge-Transfer Kinetics of The Solid-Electrolyte Interphase on Li Ti O Thin-Film Electrodes. *ChemSusChem*, **2020**, 13, 4041-4050	8.3	13
74	In Situ AFM Observation of Surface Morphology of Highly Oriented Pyrolytic Graphite in Propylene Carbonate-Based Electrolyte Solutions Containing Lithium and Bivalent Cations. *Journal of the Electrochemical Society*, **2017**, 164, A48-A53	3.9	12
73	In situ Raman spectroscopic analysis of solvent co-intercalation behavior into a solid electrolyte interphase-covered graphite electrode. *Journal of Applied Electrochemistry*, **2019**, 49, 639-646	2.6	12
72	Electrochemical effect of gold nanoparticles on Pt/Fe2O3/C for use in methanol oxidation in alkaline solution. *Electrochimica Acta*, **2007**, 52, 3582-3587	6.7	12
71	Implications of Testing a Zinc-Oxygen Battery with Zinc Foil Anode Revealed by Operando Gas Analysis. *ACS Omega*, **2020**, 5, 626-633	3.9	11
70	Effect of the Addition of Bivalent Ions on Electrochemical Lithium-Ion Intercalation at Graphite Electrodes. *Journal of the Electrochemical Society*, **2016**, 163, A1693-A1696	3.9	11
69	Electrocatalysts and Triple-Phase Boundary for Anion-Exchange Membrane Fuel Cells. *Electrochemistry*, **2014**, 82, 730-735	1.2	10

68	Aminated Perfluorosulfonic Acid Ionomers to Improve the Triple Phase Boundary Region in Anion-Exchange Membrane Fuel Cells. *Journal of the Electrochemical Society*, **2010**, 157, A1153	3.9	10
67	Hierarchically porous monoliths of oxygen-deficient anatase TiO2 with electronic conductivity. *RSC Advances*, **2013**, 3, 7205	3.7	9
66	Lactone Formation on Carbonaceous Materials during Electrochemical Oxidation. *Chemistry Letters*, **2009**, 38, 788-789	1.7	9
65	Mechanism of the Loss of Capacity of LiNiO Electrodes for Use in Aqueous Li-Ion Batteries: Unveiling a Fundamental Cause of Deterioration in an Aqueous Electrolyte through Raman Observation. *ACS Applied Materials & Interfaces*, **2020**, 12, 56076-56085	9.5	8
64	Dual-Site Catalysis of Fe-Incorporated Oxychlorides as Oxygen Evolution Electrocatalysts. *Chemistry of Materials*, **2020**, 32, 8195-8202	9.6	8
63	Investigation of the Surface State of LiCoO2Thin-Film Electrodes Using a Redox Reaction of Ferrocene. *Journal of the Electrochemical Society*, **2017**, 164, A555-A559	3.9	7
62	Development of New Electronic Conductivity Measurement Method for Lithium-ion Battery Electrode Slurry. *Chemistry Letters*, **2017**, 46, 892-894	1.7	7
61	Insight into the state of the ZrO2 coating on a LiCoO2 thin-film electrode using the ferrocene redox reaction. *Journal of Applied Electrochemistry*, **2017**, 47, 1203-1211	2.6	7
60	Direct measurements of local current distributions on electrodes covered with thin liquid electrolyte films. *Electrochemistry Communications*, **2017**, 84, 53-56	5.1	7
59	Lithium-ion Transfer at the Interface between Solid and Liquid Electrolytes under Applying DC Voltage. *Chemistry Letters*, **2010**, 39, 826-827	1.7	7
58	Novel Graphitised Carbonaceous Materials for Use as a Highly Corrosion-Tolerant Catalyst Support in Polymer Electrolyte Fuel Cells. *Fuel Cells*, **2010**, 10, 960-965	2.9	7
57	Ion-solvent interaction for lithium-ion transfer at the interface between carbonaceous thin-film electrode and electrolyte. *Tanso*, **2010**, 2010, 188-191	0.1	7
56	Solid electrolyte interphase formation in propylene carbonate-based electrolyte solutions for lithium-ion batteries based on the Lewis basicity of the co-solvent and counter anion. *Journal of Applied Electrochemistry*, **2016**, 46, 1099-1107	2.6	7
55	Formation of "fuzzy" phases with high proton conductivities in the composites of polyphosphoric acid and metal oxide nanoparticles. *Physical Chemistry Chemical Physics*, **2012**, 14, 11135-8	3.6	6
54	Bifunctional Oxygen Electrodes with Highly Step-Enriched Surface of FeN x Containing Carbonaceous Thin Film. *Journal of the Electrochemical Society*, **2020**, 167, 060504	3.9	6
53	Lithium-ion Transfer Kinetics through Solid Electrolyte Interphase on Graphite Electrodes. *Electrochemistry*, **2020**, 88, 69-73	1.2	6
52	What insertion species is electrochemically intercalated into the LiNiO2 electrode in aqueous solutions?. *Journal of Power Sources*, **2020**, 477, 229036	8.9	6
51	Investigation on Surface-Film Formation Behavior of LiMn2O4 Thin-Film Electrodes in LiClO4/Propylene Carbonate. *ChemistrySelect*, **2017**, 2, 2895-2900	1.8	5

50	Lithium-Ion Intercalation by Calcium-Ion Addition in Propylene Carbonate-Trimethyl Phosphate Electrolyte Solution. *Journal of the Electrochemical Society*, **2018**, 165, A349-A354	3.9	5
49	Nanoscopic Combination of Edge and Flat Planes in the Active Site for Oxygen Reduction and Evolution. *European Journal of Inorganic Chemistry*, **2019**, 2019, 4117-4121	2.3	5
48	Influence of Supporting Materials on Catalytic Activities of Gold Nanoparticles as CO-Tolerant Catalysts in DMFC. *Electrochemistry*, **2007**, 75, 217-220	1.2	5
47	In Situ Local pH Measurements with Hydrated Iridium Oxide Ring Electrodes in Neutral pH Aqueous Solutions. *Chemistry Letters*, **2020**, 49, 195-198	1.7	4
46	Acceptor-type hydroxide graphite intercalation compounds electrochemically formed in high ionic strength solutions. *Chemical Communications*, **2017**, 53, 10034-10037	5.8	4
45	Effects of Addition of Layered Double Hydroxide to Air Electrodes for Metal-Air Batteries. *Electrochemistry*, **2012**, 80, 728-730	1.2	4
44	Cyclosporine A causes maturation failure in embryonic-type glomeruli persisting after birth. *Journal of Nephrology*, **2011**, 24, 474-81	4.8	4
43	Cathode-Electrolyte-Interphase Film Formation on a LiNiO2 Surface in Conventional Aqueous Electrolytes: Simple Method to Improve the Electrochemical Performance of LiNiO2 Electrodes for Use in Aqueous Li-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2100756	21.8	4
42	Kinetic properties of sodium-ion transfer at the interface between graphitic materials and organic electrolyte solutions. *Journal of Applied Electrochemistry*, **2021**, 51, 629-638	2.6	4
41	Electrochemical Behavior of Spinel Lithium Titanate in Ionic Liquid/Water Bilayer Electrolyte. *Journal of the Electrochemical Society*, **2016**, 163, A2497-A2500	3.9	3
40	Electrochemical Behavior of Graphitized Carbon Nanospheres in a Propylene Carbonate-Based Electrolyte Solution. *Journal of the Electrochemical Society*, **2018**, 165, A2247-A2254	3.9	3
39	Electrochemical Performances of Zinc Oxide Electrodes Coated with Layered Double Hydroxides in Alkaline Solutions. *Chemistry Letters*, **2015**, 44, 1359-1361	1.7	3
38	Effect of Electrolyte Additives on Kinetic Parameters of Lithium-ion Transfer Reactions at Electrolyte/Graphite Interface. *Electrochemistry*, **2020**, 88, 365-368	1.2	3
37	Investigation of the Surface Film Forming Process on Nongraphitizable Carbon Electrodes by In-situ Atomic Force Microscopy. *Electrochemistry*, **2016**, 84, 769-771	1.2	3
36	Characterization of the Interface between LiMn2O4 Thin-film Electrode and LiBOB-based Electrolyte Solution by Redox Reaction of Ferrocene. *Electrochemistry*, **2018**, 86, 254-259	1.2	3
35	Electrochemical Surface Analysis of LiMn2O4 Thin-film Electrodes in LiPF6/Propylene Carbonate at Room and Elevated Temperatures. *Electrochemistry*, **2021**, 89, 19-24	1.2	3
34	Concentrated Sodium Bis(fluorosulfonyl)amide Aqueous Electrolyte Solutions for Electric Double-layer Capacitors. *Electrochemistry*, **2020**, 88, 91-93	1.2	2
33	Solvated Lithium Ion Intercalation Behavior of Graphitized Carbon Nanospheres. *Electrochemistry*, **2020**, 88, 79-82	1.2	2

32	Sodium-ion Intercalation Behavior of Graphitized Carbon Nanospheres Covered with Basal Plane. *Chemistry Letters*, **2019**, 48, 799-801	1.7	2
31	Influences of metal oxides on carbon corrosion under imposed electrochemical potential conditions. *Carbon*, **2012**, 50, 1644-1649	10.4	2
30	Fabrication of Step-edge-decorated Graphite Electrodes with Platinum and Their Electrocatalytic Activities. *Chemistry Letters*, **2013**, 42, 606-608	1.7	2
29	A patient with Henoch-Schlein purpura manifesting unusual symptoms and clinical course. *Journal of Clinical Rheumatology*, **2010**, 16, 338-40	1.1	2
28	Functional Role of Aramid Coated Separator for Dendrite Suppression in Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2022**, 169, 010536	3.9	2
27	Reproducible and stable cycling performance data on secondary zinc oxygen batteries. *Scientific Data*, **2020**, 7, 395	8.2	2
26	Molecular Structural Influence of Glymes on Co-Intercalation Behavior of Solvated Li+ in Graphite Electrodes. *Journal of the Electrochemical Society*, **2021**, 168, 060525	3.9	2
25	Electrochemical Lithiation/Delithiation of ZnO in 3D-Structured Electrodes: Elucidating the Mechanism and the Solid Electrolyte Interphase Formation. *ACS Applied Materials & Interfaces*, **2021**, 13, 35625-35638	9.5	2
24	Sodium/Lithium-Ion Transfer Reaction at the Interface between Low-Crystallized Carbon Nanosphere Electrodes and Organic Electrolytes. *ACS Omega*, **2021**, 6, 18737-18744	3.9	2
23	Electrochemical behaviors of carbonaceous materials in alkaline aqueous solutions. *Tanso*, **2018**, 2018, 118-123	0.1	1
22	Degradation phenomena of carbonaceous materials in polymer electrolyte fuel cells. *Tanso*, **2012**, 2012, 18-25	0.1	1
21	Influence of Concentrations of LiNO3 Aqueous Electrolytes on Initial Electrochemical Properties of LiNiO2 Electrodes. *Chemistry Letters*, **2021**, 50, 1071-1074	1.7	1
20	Reaction analysis of aqueous-based energy storage devices with electrode modeling. *Review of Polarography*, **2021**, 67, 19-24	0.2	1
19	Electrochemical properties of surface-modified hard carbon electrodes for lithium-ion batteries. *Electrochimica Acta*, **2021**, 379, 138175	6.7	1
18	Alkali Metal Ion Insertion and Extraction on Non-Graphitizable Carbon with Closed Pore Structures. *Journal of the Electrochemical Society*,	3.9	1
17	Operando analysis of graphite intercalation compounds with fluoride-containing polyatomic anions in aqueous solutions. *Materials Advances*, **2021**, 2, 2310-2317	3.3	1
16	Local Current Distributions on Electrodes Covered with Anion-exchange Films. *Chemistry Letters*, **2018**, 47, 171-174	1.7	1
15	Stabilizing the Nanosurface of LiNiO Electrodes by Varying the Electrolyte Concentration: Correlation with Initial Electrochemical Behaviors for Use in Aqueous Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 44284-44293	9.5	1

14	Effects of Solvation Structures on the Co-intercalation Suppression Ability of the Solid Electrolyte Interphase Formed on Graphite Electrodes. *Chemistry Letters*, **2022**, 51, 618-621	1.7	1
13	Impact of Hydrogen Peroxide on Carbon Corrosion in Aqueous KOH Solution. *Electrochemistry*, **2022**, 90, 017011-017011	1.2	0
12	Electrochemical properties of Ni-rich LiNixCoyMnzO2 materials for use in aqueous lithium-ion batteries: How do they differ from those in non-aqueous systems?. *Journal of Power Sources*, **2022**, 524, 231081	8.9	0
11	Fluoride Ion-Selective Electrode for Organic Solutions. *Analytical Chemistry*, **2021**, 93, 15058-15062	7.8	0
10	Complementary Actions of Tungsten Oxides and Carbon to Catalyze the Redox Reaction of VO2+/VO2+ in Vanadium Redox Flow Batteries. *ChemElectroChem*, **2021**, 8, 3695	4.3	0
9	3.??□?????. *Electrochemistry*, **2014**, 82, 181-185	1.2	
8	Influence of Chemical Operation on the Electrocatalytic Activity of Ba0.5Sr0.5Co0.8Fe0.2O3□ for the Oxygen Evolution Reaction. *Journal of the Electrochemical Society*, **2022**, 169, 010518	3.9	
7	Study on the Analysis of the Current-potential Curve of RDE in Electrocatalytic Reactions. *Review of Polarography*, **2020**, 66, 77-84	0.2	
6	Surface-Modified Li4Ti5O12 in Highly Concentrated Aqueous Solutions for Use in Aqueous Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 120512	3.9	
5	Interfacial lithium-ion transfer between the graphite negative electrode and the electrolyte solution. *Tanso*, **2020**, 2020, 9-14	0.1	
4	Electrochemical properties of carbon nanofibers as the negative electrode in lithium-ion batteries. *Tanso*, **2013**, 2013, 52-56	0.1	
3	Charge-Transfer Kinetics of the Solid-Electrolyte Interphase on Li Ti O Thin-Film Electrodes. *ChemSusChem*, **2020**, 13, 3944	8.3	
2	Components: metal-air batteries **2021**, 11-21		
1	Li-Ion Batteries: Cathode-Electrolyte-Interphase Film Formation on a LiNiO2 Surface in Conventional Aqueous Electrolytes: Simple Method to Improve the Electrochemical Performance of LiNiO2 Electrodes for Use in Aqueous Li-Ion Batteries (Adv. Energy Mater. 25/2021). *Advanced Energy Materials*, **2021**, 11, 2170094	21.8	