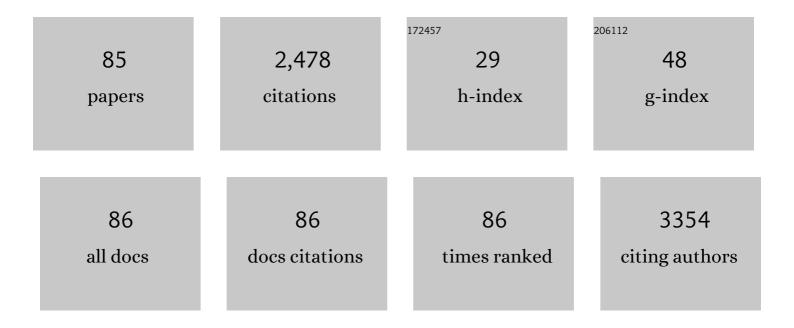
## Hirokazu Munakata

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of Li ions doping into p-type semiconductor NiO as a hole injection/transfer medium in the CO2 reduction sensitized/catalyzed by Zn-porphyrin/Re-complex upon visible light irradiation. Research on Chemical Intermediates, 2021, 47, 269-285.	2.7	8
2	Untuned broadband spiral micro-coils achieve sensitive multi-nuclear NMR TX/RX from microfluidic samples. Scientific Reports, 2021, 11, 7798.	3.3	8
3	Study on Prediction Model of Performance and Degradation of LFP/Graphite Lithium-ion Battery. Electrochemistry, 2021, 89, 303-312.	1.4	2
4	Understanding the relationship of electrochemical properties and structure of microstructure-controlled core shell gradient type Ni-rich cathode material by single particle measurement. Electrochimica Acta, 2021, 390, 138813.	5.2	7
5	Hybrid Effect of Micropatterned Lithium Metal and Three Dimensionally Ordered Macroporous Polyimide Separator on the Cycle Performance of Lithium Metal Batteries. ACS Applied Energy Materials, 2020, 3, 3721-3727.	5.1	14
6	Carbon Coating for Improvements of Electrochemical Properties of Li <sub>1.1</sub> V <sub>0.9</sub> O <sub>2</sub> Anode Active Materials for Li Secondary Batteries. Electrochemistry, 2020, 88, 22-27.	1.4	0
7	Ceramic-Based Flexible Sheet Electrolyte for Li Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10382-10388.	8.0	47
8	Magnesium Storage Performance and Mechanism of 2Dâ€Ultrathin Nanosheetâ€Assembled Spinel MgIn <sub>2</sub> S <sub>4</sub> Cathode for Highâ€Temperature Mg Batteries. Small, 2019, 15, e1902236.	10.0	11
9	Magnesium Batteries: Magnesium Storage Performance and Mechanism of 2Dâ€Ultrathin Nanosheetâ€Assembled Spinel MgIn <sub>2</sub> S <sub>4</sub> Cathode for Highâ€Temperature Mg Batteries (Small 36/2019). Small, 2019, 15, 1970191.	10.0	0
10	3D electrochemical model for a Single Secondary Particle and its application for operando analysis. Nano Energy, 2019, 62, 810-817.	16.0	16
11	Phosphoric Acid Diethylmethylammonium Trifluoromethanesulfonate-Based Electrolytes for Nonhumidified Intermediate Temperature Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 13761-13767.	8.0	5
12	Highly Durable Non-Platinum Catalyst for Protic Ionic Liquid Based Intermediate Temperature PEFCs. Electrochemistry, 2019, 87, 35-46.	1.4	6
13	Scanning electrochemical cell microscopy for visualization and local electrochemical activities of lithiumâ€ion (de) intercalation process in lithiumâ€ion batteries electrodes. Surface and Interface Analysis, 2019, 51, 27-30.	1.8	18
14	Effect of conductive carbon additives on electrochemical performance of LiCoPO 4. Journal of Power Sources, 2018, 376, 18-25.	7.8	22
15	Investigation of Carbon-coating Effect on the Electrochemical Performance of LiCoPO <sub>4</sub> Single Particle. Electrochemistry, 2018, 86, 145-151.	1.4	5
16	Multi-dentate phenoxyimine magnesium chloride complex for magnesium battery electrolyte. Materials Today Energy, 2018, 9, 279-284.	4.7	5
17	A key concept of utilization of both non-Grignard magnesium chloride and imide salts for rechargeable Mg battery electrolytes. Journal of Materials Chemistry A, 2017, 5, 3152-3156.	10.3	46
18	Improvement of rate capability by graphite foam anode for Li secondary batteries. Journal of Power Sources, 2017, 355, 164-170.	7.8	51

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19	Enhanced cycle stability of LiCoPO 4 by using three-dimensionally ordered macroporous polyimide separator. Journal of Power Sources, 2017, 350, 103-108.	7.8	37
20	Effect of Gold Layer on Interface Resistance between Lithium Metal Anode and Li <sub>6.25</sub> Al <sub>0.25</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Solid Electrolyte. Journal of the Electrochemical Society, 2017, 164, A1022-A1025.	2.9	68
21	Reduced Polysulfide Shuttle Effect by Using Polyimide Separators with Ionic Liquid-based Electrolytes in Lithium-Sulfur Battery. Electrochimica Acta, 2017, 255, 109-117.	5.2	26
22	Improvement of sintering of Li 6.25 Al 0.25 La 3 Zr 2 O 12 by using pre-heat treatment. Solid State Ionics, 2017, 309, 9-14.	2.7	5
23	High-Temperature Conductivity Measurements of Magnesium-Ion-Conducting Solid Oxide Mg <sub>0.5â^'</sub> <i><sub>x</sub></i> ) <s< td=""><td>ub <b>22</b>x/sub:</td><td>&gt;<b>(₿</b>O<sub>4</sub></td></s<>	ub <b>22</b> x/sub:	> <b>(₿</b> O <sub>4</sub>
24	Effect of organic additives on characteristics of carbon-coated LiCoPO4 synthesized by hydrothermal method. Journal of Power Sources, 2017, 337, 92-99.	7.8	47
25	Li4B4 <i>M</i> 3012Cl ( <i>M</i> = Al, Ga): An Electrochemically Stable, Lithium-Ion-Conducting Cubic Boracite with Substituted Boron Sites. Bulletin of the Chemical Society of Japan, 2017, 90, 1279-1286.	3.2	10
26	Thermal Stability of Various Cathode Materials against Li <sub>6.25</sub> Al <sub>0.25</sub> La <sub>3</sub> Zr <sub>2Electrolyte. Electrochemistry, 2017, 85, 77-81.</sub>	t; <b>0&amp;</b> lt;sub;	& <b>g1</b> ;12</si
27	Characterization and Optimization of Silicon Nanoparticle Anodes. Electrochemistry, 2016, 84, 243-253.	1.4	2
28	Electrochemical Evaluation of Active Materials for Lithium Ion Batteries by One (Single) Particle Measurement. Electrochemistry, 2016, 84, 759-765.	1.4	25
29	High-capacity thick cathode with a porous aluminum current collector for lithium secondary batteries. Journal of Power Sources, 2016, 334, 78-85.	7.8	28
30	Synthesis and Evaluation of Microspherical Li1.2Mn0.54Co0.13Ni0.13O2 through Carbon Dioxides-assisted Co-precipitation Method for Lithium-ion Battery. Electrochimica Acta, 2016, 212, 16-24.	5.2	15
31	Good Low-Temperature Properties of Nitrogen-Enriched Porous Carbon as Sulfur Hosts for High-Performance Li–S Batteries. ACS Applied Materials & Interfaces, 2016, 8, 17253-17259.	8.0	46
32	Effect of Anatase TiO2 on Electrochemical Properties of Elongated Bending TiO2-Bronze nanowires for Lithium Ion Batteries. Electrochimica Acta, 2016, 191, 661-668.	5.2	24
33	Mechanical Milling Synthesis and Electrochemical Evaluation of Silicon-transition Metal Alloy Anode Materials for Lithium-ion Batteries. Electrochemistry, 2015, 83, 445-451.	1.4	4
34	Synthesis of nanostructured Ni3S2 with different morphologies asÂnegative electrode materials for lithium ion batteries. Journal of Power Sources, 2015, 293, 706-711.	7.8	51
35	The influence of the pyrolysis temperature on the electrochemical behavior of carbon-rich SiCN polymer-derived ceramics as anode materials in lithium-ion batteries. Journal of Power Sources, 2015, 282, 409-415.	7.8	29
36	Lithium Diffusion in Cation-Mixing-Free LiMn1-xFexPO4Synthesized by Hydrothermal Process. Journal of the Electrochemical Society, 2015, 162, A2827-A2833.	2.9	5

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37	Preparation and electrochemical properties of Zr-site substituted Li7La3(Zr2â^'xMx)O12 (MÂ=ÂTa, Nb) solid electrolytes. Journal of Power Sources, 2014, 261, 206-211.	7.8	61
38	Hydrothermal synthesis of Fe-substituted manganese dioxide and its electrochemical characterization for lithium rechargeable batteries. Electrochimica Acta, 2014, 134, 92-99.	5.2	10
39	Electrochemical Characterization of Phosphorous-doped Soft Carbon using Single Particle for Lithium Battery Anode. Electrochimica Acta, 2014, 130, 60-65.	5.2	23
40	Rapid charge and discharge property of high capacity lithium ion battery applying three-dimensionally patterned electrode. Journal of Power Sources, 2014, 256, 244-249.	7.8	19
41	Solubility and Diffusion Coefficient of Oxygen in Protic Ionic Liquids with Different Fluoroalkyl Chain Lengths. Electrochimica Acta, 2014, 132, 208-213.	5.2	17
42	In-situ observation of one silicon particle during the first charging. Journal of Power Sources, 2013, 243, 630-634.	7.8	36
43	Concerted Migration Mechanism in the Li Ion Dynamics of Garnet-Type Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . Chemistry of Materials, 2013, 25, 425-430.	6.7	206
44	In-situ Fourier transform infrared spectroscopic analysis on dynamic behavior ofÂelectrolyte solution on LiFePO4 cathode. Journal of Power Sources, 2013, 239, 175-180.	7.8	48
45	Hydrothermal Synthesis of Manganese Dioxide Nanoparticles as Cathode Material for Rechargeable Batteries. Electrochemistry, 2013, 81, 2-6.	1.4	9
46	PHOSPHATE MATERIALS FOR RECHARGEABLE BATTERY APPLICATIONS. Phosphorus Research Bulletin, 2013, 28, 30-36.	0.6	2
47	First-principles density functional calculation of electrochemical stability of fast Li ion conducting garnet-type oxides. Physical Chemistry Chemical Physics, 2012, 14, 10008.	2.8	66
48	Evaluation of real performance of LiFePO4 by using single particle technique. Journal of Power Sources, 2012, 217, 444-448.	7.8	71
49	Development of high capacity lithium-ion battery applying three-dimensionally patterned electrode. Electrochimica Acta, 2012, 79, 218-222.	5.2	41
50	Surface layer formation of LiCoO2 thin film electrodes in non-aqueous electrolyte containing lithium bis(oxalate)borate. Journal of Power Sources, 2012, 210, 60-66.	7.8	30
51	Fabrication of micro lithium-ion battery with 3D anode and 3D cathode by using polymer wall. Journal of Power Sources, 2012, 208, 404-408.	7.8	55
52	Fabrication of 3D patterned electrodes for micro lithium-ion batteries. IOP Conference Series: Materials Science and Engineering, 2011, 18, 122007.	0.6	2
53	Fabrication of Li0.35La0.55TiO3 solid electrolyte with two-layered structure for all-solid-state Li battery by a colloidal crystal templating method. Journal of the Ceramic Society of Japan, 2011, 119, 189-193.	1.1	2
54	Electrochemical Property of Honeycomb Type All-Solid-State Li Battery at High Temperature. Electrochemistry, 2011, 79, 464-466.	1.4	3

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55	Improved Performance of Hydrothermally Synthesized LiMnPO4 by Mg Doping. Electrochemistry, 2011, 79, 467-469.	1.4	9
56	Electrochemical Properties of Three Dimensionally Ordered Composite Electrode Between TiO2 and Li1.5Al0.5Ti1.5(PO4)3. Electrochemistry, 2011, 79, 865-868.	1.4	1
57	Development of Low-platinum Catalyst for Fuel Cells by Mechano-chemical Method. Journal of the Society of Powder Technology, Japan, 2011, 48, 364-369.	0.1	8
58	Fabrication of all-solid-state rechargeable lithium-ion battery using mille-feuille structure of Li0.35La0.55TiO3. Journal of Power Sources, 2011, 196, 6947-6950.	7.8	14
59	Effect of sol composition on solid electrode/solid electrolyte interface for all-solid-state lithium ion battery. Electrochimica Acta, 2011, 56, 1023-1029.	5.2	71
60	Fabrication of Lithium-ion Microarray Battery by Electrophoresis. Electrochemistry, 2010, 78, 273-275.	1.4	4
61	All-solid-state lithium battery with a three-dimensionally ordered Li1.5Al0.5Ti1.5(PO4)3 electrode. Electrochimica Acta, 2010, 55, 6892-6896.	5.2	55
62	Compatibility of LiCoO2 and LiMn2O4 cathode materials for Li0.55La0.35TiO3 electrolyte to fabricate all-solid-state lithium battery. Journal of Power Sources, 2010, 195, 5784-5788.	7.8	49
63	Highly patterned cylindrical Ni–Sn alloys with 3-dimensionally ordered macroporous structure as anodes for lithium batteries. Electrochimica Acta, 2010, 55, 8030-8035.	5.2	45
64	ELECTROCHEMICAL PROPERIES OF HYDROTHERMALLY SYNTHESIZED LICoPO <sub>4</sub> AS A HIGH VOLTAGE CATHODE MATERIAL FOR LITHIUM SECONDARY BATTERY. Phosphorus Research Bulletin, 2010, 24, 12-15.	0.6	12
65	Fabrication of Three-Dimensional Battery Using Ceramic Electrolyte with Honeycomb Structure by Sol–Gel Process. Journal of the Electrochemical Society, 2010, 157, A493.	2.9	91
66	Compatibility of Li[sub 7]La[sub 3]Zr[sub 2]O[sub 12] Solid Electrolyte to All-Solid-State Battery Using Li Metal Anode. Journal of the Electrochemical Society, 2010, 157, A1076.	2.9	319
67	3-dimensionally Ordered Macroporous Ni-YSZ for Low Temperature SOFC. ECS Transactions, 2009, 25, 1855-1860.	0.5	4
68	Electrophoretic MEA Fabrication for High Performance DMFC. Key Engineering Materials, 2009, 412, 249-252.	0.4	1
69	FABRICATION OF 3D MICROELECTRODES FOR LITHIUM ION BATTERIES BY ELECTROPHORETIC DEPOSITION. Functional Materials Letters, 2009, 02, 9-12.	1.2	14
70	Fabrication of Three-Dimensional Battery Using Ceramic Electrolyte with Honeycomb Structure by Sol-gel Process. ECS Transactions, 2009, 16, 37-43.	0.5	7
71	Effect of carbon source on electrochemical performance of carbon coated LiMnPO4 cathode. Journal of the Ceramic Society of Japan, 2009, 117, 1225-1228.	1.1	37
72	Three-dimensionally ordered macroporous polyimide composite membrane with controlled pore size for direct methanol fuel cells. Journal of Power Sources, 2008, 178, 596-602.	7.8	50

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73	Synthesis and Characterization of Composite Membrane with Three-Dimensionally Ordered Macroporous Polyimide Matrix for DMFC. Journal of the Electrochemical Society, 2008, 155, B303.	2.9	18
74	Pore Size Effect on Improvement of Surface Proton Conductivity for Three-Dimensionally Ordered Macroporous Silica Composite Membrane. Journal of the Electrochemical Society, 2007, 154, B871.	2.9	8
75	Electrophoretic Deposition for Nanostructural Design of Catalyst Layers on Nafion Membrane. Journal of the Electrochemical Society, 2007, 154, B1368.	2.9	23
76	Enhancement on Proton Conductivity of Three-Dimensionally Ordered Macroporous Silica Membrane by Surface Sulfonation. Key Engineering Materials, 2006, 301, 143-146.	0.4	2
77	Pore Size Effect on Improvement of Surface Proton Conductivity for Three-Dimensionally Ordered Macroporous Silica Membrane. ECS Transactions, 2006, 1, 161-167.	0.5	2
78	Preparation of Nano-Structured Catalyst Layers on Nafion® Membrane by Electrophoretic Deposition. ECS Transactions, 2006, 3, 329-335.	0.5	1
79	Micro-patterning of LiMn2O4Electrode Using Sol–Gel Process for Lithium Micro-batteries. Chemistry Letters, 2005, 34, 984-985.	1.3	4
80	Preparation of micro-dot electrodes of LiCoO2 and Li4Ti5O12 for lithium micro-batteries. Electrochimica Acta, 2005, 51, 966-971.	5.2	16
81	Enhancement on proton conductivity of inorganic–organic composite electrolyte membrane by addition of sulfonic acid group. Solid State Ionics, 2005, 176, 2445-2450.	2.7	59
82	Properties of composite proton-conducting membranes prepared from three-dimensionally ordered macroporous polyimide matrix and polyelectrolyte. Chemical Communications, 2005, , 3986.	4.1	26
83	Preparation of Composite Membrane between a Uniform Porous Silica Matrix and Injected Proton Conductive Gel Polymer. Chemistry of Materials, 2005, 17, 4845-4851.	6.7	44
84	Effects of ω-Functional Groups on pH-Dependent Reductive Desorption of Alkanethiol Self-Assembled Monolayers. Langmuir, 2004, 20, 10123-10128.	3.5	47
85	Electrophoretic Fabrication of Rechargeable Micro Lithium-Ion Battery with 3D Configuration. Key Engineering Materials, 0, 507, 163-167.	0.4	0