

# Masahiro Shimizu

## List of Publications by Year in descending order

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87  
papers

2,117  
citations

218677

26  
h-index

243625

44  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nb-Doped Rutile TiO <sub>2</sub> : a Potential Anode Material for Na-Ion Battery. ACS Applied Materials & Interfaces, 2015, 7, 6567-6573.	8.0	227
2	Ni-deposited multi-walled carbon nanotubes by electrodeposition. Carbon, 2004, 42, 641-644.	10.3	142
3	Carbon nanofiber-copper composite powder prepared by electrodeposition. Electrochemistry Communications, 2003, 5, 797-799.	4.7	107
4	Charge-Discharge Properties of a Sn <sub>4</sub> P <sub>3</sub> Negative Electrode in Ionic Liquid Electrolyte for Na-Ion Batteries. ACS Energy Letters, 2017, 2, 1139-1143.	17.4	101
5	Excellent solid lubrication of electrodeposited nickel-multiwalled carbon nanotube composite films. Materials Letters, 2008, 62, 3545-3548.	2.6	98
6	Effect of Phosphorus-Doping on Electrochemical Performance of Silicon Negative Electrodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 7125-7132.	8.0	93
7	Cu-MWCNT Composite Films Fabricated by Electrodeposition. Journal of the Electrochemical Society, 2010, 157, D147.	2.9	79
8	Electrochemical Na-insertion/extraction properties of SnO thick-film electrodes prepared by gas-deposition. Journal of Power Sources, 2014, 248, 378-382.	7.8	67
9	Morphology control of zinc electrodeposition by surfactant addition for alkaline-based rechargeable batteries. Physical Chemistry Chemical Physics, 2019, 21, 7045-7052.	2.8	59
10	Various carbon nanofiber-copper composite films prepared by electrodeposition. Electrochemistry Communications, 2005, 7, 19-22.	4.7	56
11	Analysis of the Deterioration Mechanism of Si Electrode as a Li-Ion Battery Anode Using Raman Microspectroscopy. Journal of Physical Chemistry C, 2015, 119, 2975-2982.	3.1	56
12	Applicability of ionic liquid electrolytes to LaSi <sub>2</sub> /Si composite thick-film anodes in Li-ion battery. Journal of Power Sources, 2013, 235, 29-35.	7.8	48
13	Tin Oxides as a Negative Electrode Material for Potassium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 6865-6870.	5.1	45
14	TiO <sub>2</sub> /Si composites synthesized by sol-gel method and their improved electrode performance as Li-ion battery anodes. Electrochimica Acta, 2013, 111, 575-580.	5.2	42
15	Effect of Cation Structure of Ionic Liquids on Anode Properties of Si Electrodes for LIB. Journal of the Electrochemical Society, 2014, 161, A1765-A1771.	2.9	42
16	Niobium-doped titanium oxide anode and ionic liquid electrolyte for a safe sodium-ion battery. Journal of Power Sources, 2016, 329, 428-431.	7.8	42
17	Carbon Nanofiber-Copper Composites Fabricated by Electroplating. Electrochemical and Solid-State Letters, 2004, 7, C25.	2.2	40
18	Influence of the structure of the anion in an ionic liquid electrolyte on the electrochemical performance of a silicon negative electrode for a lithium-ion battery. Journal of Power Sources, 2017, 338, 103-107.	7.8	40

#	ARTICLE	IF	CITATIONS
19	Electrochemical Na-Insertion/Extraction Property of Ni-Coated Black Phosphorus Prepared by an Electroless Deposition Method. ACS Omega, 2017, 2, 4306-4315.	3.5	39
20	Electrochemical behavior of SiO as an anode material for Na-ion battery. Journal of Alloys and Compounds, 2015, 640, 440-443.	5.5	34
21	Functional ionic liquids for enhancement of Li-ion transfer: the effect of cation structure on the charge/discharge performance of the $\text{Li}_4\text{Ti}_5\text{O}_{12}$ electrode. Physical Chemistry Chemical Physics, 2016, 18, 5139-5147.	2.8	32
22	Cu/Multiwalled Carbon Nanotube Composite Films Fabricated by Pulse-Reverse Electrodeposition. Journal of the Electrochemical Society, 2011, 158, D49.	2.9	30
23	Low-Internal-Stress Nickel Multiwalled Carbon Nanotube Composite Electrodeposited from a Sulfamate Bath. Journal of the Electrochemical Society, 2007, 154, D530.	2.9	29
24	Effects of Additives on Cu-MWCNT Composite Plating Films. Journal of the Electrochemical Society, 2010, 157, D127.	2.9	29
25	Fabrication of copper/single-walled carbon nanotube composite film with homogeneously dispersed nanotubes by electroless deposition. Materials Today Communications, 2016, 7, 101-107.	1.9	29
26	Electrochemical Na-insertion/Extraction Properties of Sn&ndash;P Anodes. Electrochemistry, 2015, 83, 810-812.	1.4	26
27	Electrodeposition of Ni&ndash;P Alloy&ndash;Multiwalled Carbon Nanotube Composite Films. Journal of the Electrochemical Society, 2010, 157, D50.	2.9	25
28	Fabrication of various electroless Ni&ndash;P alloy/multiwalled carbon nanotube composite films on an acrylonitrile butadiene styrene resin. Surface and Coatings Technology, 2011, 205, 3175-3181.	4.8	25
29	Inter-collisional cutting of multi-walled carbon nanotubes by high-speed agitation. Journal of Physics and Chemistry of Solids, 2008, 69, 2481-2486.	4.0	24
30	Kinetics Study and Degradation Analysis through Raman Spectroscopy of Graphite as a Negative-Electrode Material for Potassium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 13008-13016.	3.1	24
31	Piperidinium-Based Ionic Liquids as an Electrolyte Solvent for Li-Ion Batteries: Effect of Number and Position of Oxygen Atom in Cation Side Chain on Electrolyte Property. Journal of the Electrochemical Society, 2020, 167, 070516.	2.9	19
32	Effect of Film-Forming Additive in Ionic Liquid Electrolyte on Electrochemical Performance of Si Negative-Electrode for LIBs. Journal of the Electrochemical Society, 2019, 166, A268-A276.	2.9	19
33	Frictional and wear properties of cobalt/multiwalled carbon nanotube composite films formed by electrodeposition. Surface and Coatings Technology, 2013, 235, 204-211.	4.8	18
34	Mechanism for Codeposition of Multiwalled Carbon Nanotubes with Copper from Acid Copper Sulfate Bath. Journal of the Electrochemical Society, 2013, 160, D380-D385.	2.9	16
35	Fabrication of Copper/Multiwalled Carbon Nanotube Composites Containing Different Sized Nanotubes by Electroless Deposition. Journal of the Electrochemical Society, 2015, 162, D68-D73.	2.9	16
36	Effects of the ether oxygen atom in alkyl side chains on the physical properties of piperidinium ionic liquids. Faraday Discussions, 2018, 206, 523-534.	3.2	15

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37	Electroless deposition and evaluation of Cu/multiwalled carbon nanotube composite films on acrylonitrile butadiene styrene resin. <i>Surface and Coatings Technology</i> , 2014, 254, 224-229.	4.8	14
38	Design of Roughened Current Collector by Bottom-up Approach Using the Electroplating Technique: Charge/Discharge Performance of a Sn Negative-Electrode for Na-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27285-27294.	3.1	14
39	Triethylamine Enables Catalytic Generation of Oxidopyrylium Ylides for [5+2] Cycloadditions with Alkenes: An Efficient Entry to Oxabicyclo[3.2.1]octane Frameworks. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2377-2381.	4.3	14
40	Suppressing the effect of lithium dendritic growth by the addition of magnesium bis(trifluoromethanesulfonyl)amide. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1127-1133.	2.8	13
41	Metal-Fixed Multiwalled Carbon Nanotube Patterned Emitters Using Photolithography and Electrodeposition Technique. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, D72.	2.2	12
42	Electroless Deposition of Silver on Multiwalled Carbon Nanotubes Using Iodide Bath. <i>Journal of the Electrochemical Society</i> , 2011, 158, D506.	2.9	12
43	Electrodeposited Cu/MWCNT composite-film: a potential current collector of silicon-based negative-electrodes for Li-Ion batteries. <i>RSC Advances</i> , 2019, 9, 21939-21945.	3.6	12
44	Excellent bonding strength between steel and thermoplastic resin using roughened electrodeposited Ni/CNT composite layer without adhesives. <i>Materials Letters</i> , 2020, 263, 127241.	2.6	12
45	Electrodeposition of Ag/CNT Composite Films from Iodide Plating Baths. <i>Journal of the Electrochemical Society</i> , 2020, 167, 122515.	2.9	12
46	Electric Contact Characteristic under Low Load of Silver/Carbon Nanotube Composite Plating Film Corroded Using H <sub>2</sub> S Gas. <i>Applied Physics Express</i> , 2010, 3, 065801.	2.4	11
47	Fabrication of Co-W Alloy/Multiwalled Carbon Nanotube Composite Films by Electrodeposition for Improved Frictional Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M39-M43.	1.8	10
48	Electroless Deposition of Cu/Multiwalled Carbon Nanotube Composite Films with Improved Frictional Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, P201-P206.	1.8	9
49	Electrochemical lithiation and delithiation properties of ceria-coated silicon electrodes. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2035-2039.	5.5	9
50	Fabrication of Copper/Single-Walled Carbon Nanotube Composites by Electrodeposition Using Free-Standing Nanotube Film. <i>Journal of the Electrochemical Society</i> , 2017, 164, D922-D929.	2.9	9
51	A phosphonium ylide as a visible light organophotoredox catalyst. <i>Chemical Communications</i> , 2021, 57, 3591-3594.	4.1	9
52	Fabrication of Three-Dimensional (3D) Copper/Carbon Nanotube Composite Film by One-Step Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2016, 163, D774-D779.	2.9	8
53	Li-insertion/extraction properties of three-dimensional Sn electrode prepared by facile electrodeposition method. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 727-734.	2.9	8
54	Dopant Effect on Lithiation/Delithiation of Highly Crystalline Silicon Synthesized Using the Czochralski Process. <i>ACS Applied Energy Materials</i> , 2021, 4, 7922-7929.	5.1	8

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55	Field emission properties of Cu/multiwalled carbon nanotube composite films fabricated by an electrodeposition technique. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 399-405.	2.9	7
56	Dispersion of multiwalled carbon nanotubes into a diglyme solution, electrodeposition of aluminum-based composite, and improvement of hardness. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152585.	5.5	7
57	Ligand Exchange Conduction of Lithium Ion in a Pentaglyme-Lithium Bis(trifluoromethylsulfonyl)amide Super-Concentrated Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 016506.	2.9	7
58	Fabrication of CNT/Cu Composite Yarn via Single-Step Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2020, 167, 102509.	2.9	6
59	Fabrication of Metal/Carbon Nanotube Composites by Electrochemical Deposition. <i>Electrochem</i> , 2021, 2, 563-589.	3.3	6
60	Communicationâ€”Intercalation/De-Intercalation Behavior of Li-Ion Encapsulated by 12-Crown-4-Ether into Graphite Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3212-A3214.	2.9	5
61	Multi-layered copper foil reinforced by co-deposition of single-walled carbon nanotube based on electroplating technique. <i>Materials Letters</i> , 2020, 261, 126993.	2.6	5
62	Superior electrical contact characteristics of Ag/CNT composite films formed in a cyanide-free plating bath and tested against corrosion by H <sub>2</sub> S gas. <i>Materials Letters</i> , 2021, 303, 130504.	2.6	5
63	Phosphorus Particle Composite Plating with Niâ€”P Alloy Matrix. <i>Journal of the Electrochemical Society</i> , 2009, 156, D283.	2.9	4
64	Communicationâ€”Fabrication of a Uniformly Tin-Coated Three-Dimensional Copper Nanostructured Architecture by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2016, 163, D54-D56.	2.9	4
65	Communicationâ€”Micro-Scale Columnar Architecture Composed of Copper Nano Sheets by Electrodeposition Technique. <i>Journal of the Electrochemical Society</i> , 2017, 164, D72-D74.	2.9	4
66	Electrochemical preparation of free-standing carbon-nanotube/Sn composite paper. <i>Materials Letters</i> , 2018, 220, 182-185.	2.6	4
67	Communicationâ€”Alkyl-Chain-Length Dependence of Quaternary Ammonium Cation on Zn Deposition Morphology in Alkaline-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2242-A2244.	2.9	4
68	Fabrication of Roughened Electrodeposited Copper Coating on Steel for Dissimilar Joining of Steel and Thermoplastic Resin. <i>Metals</i> , 2021, 11, 591.	2.3	4
69	Cationâ€”Structure Effects on Zinc Electrodeposition and Crystallographic Orientation in Ionic Liquids. <i>ChemElectroChem</i> , 2022, 9, .	3.4	4
70	Superior Durability of Dissimilar Material Joint between Steel and Thermoplastic Resin with Roughened Electrodeposited Nickel Interlayer. <i>Advanced Engineering Materials</i> , 2020, 22, 2000739.	3.5	3
71	Intercalation/deintercalation of solvated Mg <sup>2+</sup> into/from graphite interlayers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16981-16988.	2.8	3
72	Glyme-Lithium Bis(trifluoromethylsulfonyl)amide Super-concentrated Electrolytes: Salt Addition to Solvate Ionic Liquids Lowers Ionicity but Liberates Lithium Ions. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090521.	2.9	3

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73	Effects of Drainage Conditions on the Shear Strength of Unsaturated Soil. , 2006, , 1223.		2
74	Suction and its Effects on Shear Strength of Unsaturated Undisturbed Samples of a Volcanic Pumiceous Soil. , 2006, , 1235.		1
75	Fabrication of Tin-Plated Three-Dimensional Copper Nanostructure Using Electroless Plating and Its Anode Performance in Lithium-Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
76	Fabrication of an MWCNT-Reinforced Tin Anode for Use in Lithium Ion Batteries By Electrodeposition in Sulfuric Acid. ECS Meeting Abstracts, 2016, , .	0.0	0
77	Construction of Lithium-Ion Battery Tin Anode Utilizing Cu/CNT Composite Plating Method. ECS Meeting Abstracts, 2016, , .	0.0	0
78	Fabrication and Electrochemical Evaluation of Tin Plated Three-Dimensional Copper Nanostructured Anode for Lithium Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
79	Porous Silicon Nanoparticles Prepared By an Alkaline Process As an Anode for Use in Lithium Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
80	Influence of Alkyl-Chain-Length of Quaternary Ammonium Cation on Zn Deposition Morphology in Alkaline-Based Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
81	Morphology Control of Zinc Electrodeposition By Surfactant Addition for Alkaline-Based Rechargeable Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
82	Intercalation/De-Intercalation Behavior of Li-Ion Encapsulated By 12-Crown-4-Ether into Graphite Electrode. ECS Meeting Abstracts, 2019, , .	0.0	0
83	Tin Oxides As a Negative Electrode Material for Potassium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
84	Dissimilar Materials Joining between Steel and Resin by Roughened Plating Method. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2020, 89, 125-128.	0.1	0
85	Development of Ag/CNT Films As Electrical Connectors Using a Cyanide-Free Electroplating Bath. ECS Meeting Abstracts, 2020, MA2020-02, 3581-3581.	0.0	0
86	Cationâ€s Structure Effects on Zinc Electrodeposition and Crystallographic Orientation in Ionic Liquids. ChemElectroChem, 2022, 9, .	3.4	0
87	Dissimilar Material Joining between Steel and Resin using Roughened Plating Films. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 674-678.	0.2	0