Masakazu Haruta

List of Publications by Year
in descending order

44 papers	732 citations	623734 14 h-index	552781 26 g-index
44 all docs	44 docs citations	44 times ranked	1121 citing authors

#	Article	IF	Citations
1	Negligible â€œNegative Space-Charge Layer Effectsâ€•at Oxide-Electrolyte/Electrode Interfaces of Thin-Film Batteries. Nano Letters, 2015, 15, 1498-1502.	9.1	119
2	Temperature effects on SEI formation and cyclability of Si nanoflake powder anode in the presence of SEI-forming additives. Electrochimica Acta, 2017, 224, 186-193.	5.2	68
3	Fabrication of all-solid-state battery using epitaxial LiCoO2 thin films. Journal of Power Sources, 2014, 267, 881-887.	7.8	65
4	In situ Scanning Electron Microscopy of Silicon Anode Reactions in Lithium-Ion Batteries during Charge/Discharge Processes. Scientific Reports, 2016, 6, 36153.	3.3	65
5	Preparation and in-situ characterization of well-defined solid electrolyte/electrode interfaces in thin-film lithium batteries. Solid State Ionics, 2016, 285, 118-121.	2.7	47
6	Artificial lithium fluoride surface coating on silicon negative electrodes for the inhibition of electrolyte decomposition in lithium-ion batteries: visualization of a solid electrolyte interphase using in situ AFM. Nanoscale, 2018, 10, 17257-17264.	5.6	35
7	Li Pre-doping of Amorphous Silicon Electrode in Li-Naphthalene Complex Solutions. Electrochemistry, 2015, 83, 843-845.	1.4	27
8	Si/Li₂S Battery with Solvate Ionic Liquid Electrolyte. Electrochemistry, 2016, 84, 887-890.	1.4	27
9	Rare-Earth-Dependent Tri-axial Magnetic Anisotropies and Growth Conditions in REBa₂Cu₄O₈. Japanese Journal of Applied Physics, 2012, 51, 010107.	1.5	25
10	Effect of Lithium Silicate Addition on the Microstructure and Crack Formation of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Particles. ACS Applied Materials & Interfaces, 2019, 11, 39910-39920.	8.0	23
11	Fluoroalkyl ether-diluted dimethyl carbonate-based electrolyte solutions for high-voltage operation of LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ electrodes in lithium ion batteries. Sustainable Energy and Fuels, 2018, 2, 1197-1205.	4.9	22
12	Morphology changes and long-term cycling durability of Si flake powder negative electrode for lithium-ion batteries. Electrochimica Acta, 2018, 267, 94-101.	5.2	22
13	Oxygen-Content Dependence of Cycle Performance and Morphology Changes in Amorphous-SiO_x Thin-Film Negative Electrodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A258-A263.	2.9	19
14	Cycle Performances of Si-flake-powder Anodes in Lithium Salt-tetraglyme Complex Electrolytes. Electrochemistry, 2015, 83, 837-839.	1.4	15
15	Adsorbed Water on Nano-Silicon Powder and Its Effects on Charge and Discharge Characteristics as Anode in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A6084-A6087.	2.9	14
16	Silicon Nano-flake Powder as an Anode for The Next Generation Lithium-ion Batteries: Current Status and Challenges. Electrochemistry, 2017, 85, 623-629.	1.4	14
17	Improvement of Cycleability and Rateâ€Capability of LiNi 0.5 Co 0.2 Mn 0.3 O 2 Cathode Materials Coated with Lithium Boron Oxide by an Antisolvent Precipitation Method. ChemistrySelect, 2019, 4, 8676-8681.	1.5	14
18	Orientation control of LiCoO2 epitaxial thin films on metal substrates. Thin Solid Films, 2016, 600, 175-178.	1.8	13

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19	Fabrication of thin-film-type Bi2Sr2CaCu2O8+Îîntrinsic Josephson junctions by pulsed-laser-deposition. Superconductor Science and Technology, 2009, 22, 125004.	3.5	10
20	Dilution Effects of Highly Concentrated Dimethyl Carbonate-Based Electrolytes with a Hydrofluoroether on Charge/Discharge Properties of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Positive Electrode. Journal of the Electrochemical Society, 2019, 166, A4005-A4013.	2.9	10
21	Lithium-ion battery performance enhanced by the combination of Si thin flake anodes and binary ionic liquid systems. Materials Advances, 2020, 1, 625-631.	5.4	9
22	Extension of Anodic Potential Window of Ester-Based Electrolyte Solutions for High-Voltage Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7728-7732.	5.1	8
23	Large grain growth by annealing of Ag-covered Bi₂Sr₂CaCu₂O_{8 + Î´}thin films and its application in the fabrication of intrinsic Josephson junctions. Superconductor Science and Technology, 2010, 23, 115006.	3.5	7
24	Rare-Earth-Dependent Tri-axial Magnetic Anisotropies and Growth Conditions in REBa₂Cu₄O₈. Japanese Journal of Applied Physics, 2012, 51, 010107.	1.5	7
25	Influence of columnar defects on pinning parameters in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2004, 412-414, 511-514.	1.2	5
26	High Rate Charge and Discharge Characteristics of Graphite/SiO<i>_x</i> Composite Electrodes. Electrochemistry, 2017, 85, 403-408.	1.4	5
27	Communicationâ€”Enhancement of Structural Stability of LiNi0.5Co0.2Mn0.3O2 Cathode Particles against High-Voltage Cycling by Lithium Silicate Addition. Journal of the Electrochemical Society, 2019, 166, A941-A943.	2.9	5
28	Evidence for enhancement of vortex matching field above 5â€‰T and oxygen-deficient annuli around barium-niobate nanorods. Journal of Applied Physics, 2015, 118, 133907.	2.5	4
29	Pre-Film Formation and Cycle Performance of Silicon-Flake-Powder Negative Electrode in a Solvate Ionic Liquid for Silicon-Sulfur Rechargeable Batteries. Journal of the Electrochemical Society, 2018, 165, A1874-A1879.	2.9	4
30	Growth-Temperature-Independent Nanostructure in (Y$_{1-x}$Er$_{x}$)Ba$_{2}$Cu$_{3}$O$_{y}$ Films with Baâ€“Nbâ€“O Nanorods. Applied Physics Express, 2012, 5, 073102.	2.4	4
31	Relationship between vortex pinning properties and microstructure in Baâ€“Nbâ€“O-doped YBa2Cu3Oy and ErBa2Cu3Oy films. Physica C: Superconductivity and Its Applications, 2013, 494, 158-162.	1.2	3
32	Behaviors of Y-based High-critical-temperature Superconductor in Modulated Rotating Magnetic Fields. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 397-403.	0.2	3
33	Perfluoroinated Ionomer as an Artificial SEI for Silicon Nano-Flake Anode in LiTFSI/Tetraglyme Solvate Ionic Liquid. Journal of the Electrochemical Society, 2022, 169, 020519.	2.9	3
34	The Eâ€“J characteristics of MgB2 thin film prepared by electron beam evaporation method. Physica C: Superconductivity and Its Applications, 2005, 426-431, 174-178.	1.2	2
35	Magnetic tri-axial grain alignment in misfit-layered bismuth-based cobaltites. Journal of Applied Physics, 2012, 112, 043913.	2.5	2
36	Influence of Deposition Temperature on Critical Current Properties for Nd:YAG-PLD-YBa2Cu3Oy Thin Films with Nanorods. Physics Procedia, 2012, 36, 1576-1581.	1.2	2

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37	Dilution Effects of Highly Concentrated LiBF₄/DMC with Fluorinated Esters on Charge/Dishcharge Properties of Ni-rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Positive Electrode. Journal of the Electrochemical Society, 2020, 167, 040508.	2.9	2
38	Angular Dependence of Pinning Properties of MgB2 Thin Films Prepared by an Electron-beam Evaporation Method. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2005, 40, 473-478.	0.1	2
39	Preparation and Charge/Discharge Characteristics of Carbon-modified Ramsdellite TiO₂ as a High Potential Anode. Electrochemistry, 2015, 83, 867-869.	1.4	1
40	Fabrication and critical current properties in Nd:YAG-PLD REBa2Cu3Oy (RE=Y and Er) thin films. Physics Procedia, 2012, 27, 220-223.	1.2	0
41	Relationship between grain size and the degrees of orientation in a twinned ErBa2Cu3Oy superconductor oriented in modulated rotating magnetic fields. Materials Research Society Symposia Proceedings, 2013, 1434, 69.	0.1	0
42	Behavior of Yâ€Based Highâ€Criticalâ€Temperature Superconductors in Modulated Rotating Magnetic Fields. Electronics and Communications in Japan, 2014, 97, 10-18.	0.5	0
43	Silicon LeafPowderÂ® Anode. , 2021, , 323-332.		0
44	Angular Dependence of Electric Field vs. Current Density Characteristics in YBa2Cu3Oy Superconductlng Thin Film with Columnar Defects. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 45	0.1	0