

Hirofumi Takikawa

List of Publications by Year in descending order

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51
papers

773
citations

623188

14
h-index

500791

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52
all docs

52
docs citations

52
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Isothermal Crystallization Behavior of Poly(L-lactic acid) in the Presence of Various Additives. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 325-335.	1.7	137
2	DLC thin film preparation by cathodic arc deposition with a super droplet-free system. <i>Surface and Coatings Technology</i> , 2003, 163-164, 368-373.	2.2	92
3	Review of Cathodic Arc Deposition for Preparing Droplet-Free Thin Films. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 992-999.	0.6	83
4	Preparation of various DLC films by T-shaped filtered arc deposition and the effect of heat treatment on film properties. <i>Vacuum</i> , 2008, 83, 510-514.	1.6	56
5	Catalytic activity of several carbons with different structures for methane decomposition and by-produced carbons. <i>Applied Surface Science</i> , 2019, 473, 291-297.	3.1	52
6	Physical-chemical hybrid deposition of DLC film on rubber by T-shape filtered-arc-deposition. <i>Vacuum</i> , 2004, 73, 611-617.	1.6	46
7	Nanopore formation process in artificial cell membrane induced by plasma-generated reactive oxygen species. <i>Archives of Biochemistry and Biophysics</i> , 2016, 605, 26-33.	1.4	38
8	Poly(L-lactide)/C60 nanocomposites: Effects of C60 on crystallization of poly(L-lactide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2167-2176.	2.4	24
9	Torsion fracture of carbon nanocoils. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	22
10	Specific capacitance of electrochemical capacitor using RuO ₂ loading arc-soot/activated carbon composite electrode. <i>Chemical Engineering Journal</i> , 2009, 146, 434-438.	6.6	21
11	Electrochemical properties of fuel cell catalysts loaded on carbon nanomaterials with different geometries. <i>Materials Today Communications</i> , 2015, 3, 96-103.	0.9	19
12	Splitting and Flattening of Helical Carbon Nanofibers by Acid Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3910-3914.	0.9	18
13	Effective Utilization of Carbon Nanocoil-supported PtRu Anode Catalyst by Applying Anode Microporous Layer for Improved Direct Methanol Fuel Cell Performance. <i>Electrochemistry</i> , 2015, 83, 381-385.	0.6	15
14	High-Yield Synthesis of Helical Carbon Nanofibers Using Iron Oxide Fine Powder as a Catalyst. <i>Crystals</i> , 2015, 5, 47-60.	1.0	15
15	Filament discharge enhances field emission properties by making twisted carbon nanofibres stand up. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 205418.	1.3	13
16	Carbon-Nanotube Growth in Alcohol-Vapor Plasma. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 1150-1155.	0.6	13
17	Preparation of Powdery Carbon Nanotwist and Application to Printed Field Emitter. <i>Research Letters in Materials Science</i> , 2007, 2007, 1-5.	0.2	12
18	Structural Analysis of Multi-Walled Carbon Nanocoils Synthesized with Fe-Sn Catalyst Supported on Zeolite. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2344-2348.	0.9	10

#	ARTICLE	IF	CITATIONS
19	Development of X-Shaped Filtered-Arc-Deposition (X-FAD) Apparatus and DLC/Cr Film Preparation. IEEE Transactions on Plasma Science, 2007, 35, 1014-1019.	0.6	9
20	Influences of internal resistance and specific surface area of electrode materials on characteristics of electric double layer capacitors. AIP Conference Proceedings, 2017, , .	0.3	9
21	Decrease in Fullerene Productivity Due to Air Leakage in Carbon Arc Method. Fullerenes, Nanotubes, and Carbon Nanostructures, 1998, 6, 339-349.	0.6	8
22	Improving the characteristic of electric double layer capacitors using oxidized carbon nanoballoon. Electrochimica Acta, 2014, 131, 207-213.	2.6	8
23	Nanofabrication of Three-Dimensional Imprint Diamond Molds by ECR Oxygen Ion Beams Using Polysiloxane. E-Journal of Surface Science and Nanotechnology, 2009, 7, 772-776.	0.1	8
24	DMFC Catalyst Layer Prepared Using Arc-Soot Nano-Carbon by Dry-Squeegee Method and Its Impedance Analysis. Electrochemistry, 2009, 77, 210-213.	0.6	6
25	Development of Y-Shaped Filtered-Arc-Deposition System for Preparing Multielement Composition-Controlled Film. IEEE Transactions on Plasma Science, 2009, 37, 1140-1145.	0.6	5
26	Effects of Dielectric Barrier Discharge Treatment Conditions on the Uprightness of Carbon Nanofibers. IEEE Transactions on Plasma Science, 2012, 40, 1794-1800.	0.6	5
27	Improvement of carbon nanocoil purity achieved by supplying catalyst molecules from the vapor phase in chemical vapor deposition. Journal of Materials Research, 2014, 29, 2179-2187.	1.2	5
28	Preparation of self-supporting Au thin films on perforated substrate by releasing from water-soluble sacrificial layer. Japanese Journal of Applied Physics, 2016, 55, 07LE05.	0.8	5
29	Electromagnetic wave absorption properties of carbon nanocoil composites in the millimeter waveband. AIP Conference Proceedings, 2018, , .	0.3	5
30	Use of carbon nanocoil as a catalyst support in direct methanol fuel cell. , 2014, , .		3
31	Nitrogen doping of carbon nanoballoons by radiofrequency magnetron plasma and evaluation of their oxygen reduction reaction activity. Electronics and Communications in Japan, 2019, 102, 3-10.	0.3	3
32	Fabrication of Diamond-Like Carbon Emitter Patterns by Room-Temperature Curing Nanoimprint Lithography with PDMS Molds Using Polysiloxane. MRS Advances, 2016, 1, 1075-1080.	0.5	2
33	Improvement of Growth Yield of Multi-Walled Carbon Nanocoils by Mesoporous Materials and Sn Amount. Transactions of the Materials Research Society of Japan, 2011, 36, 469-473.	0.2	2
34	Diamond Nanopit Arrays Fabricated by Room-Temperature Nanoimprinting using Diamond Molds. Materials Research Society Symposia Proceedings, 2011, 1282, 117.	0.1	1
35	Fabrication of Micro-OLEDs by Room-temperature Curing Nanocontact-print Lithography Using DLC Molds. Materials Research Society Symposia Proceedings, 2012, 1511, 1.	0.1	1
36	Fabrication of Diamond Nanopit arrays by Room-temperature Curing Nanoimprint Lithography Using Glass-like Carbon Molds. Materials Research Society Symposia Proceedings, 2012, 1395, 27.	0.1	1

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37	Measurement of the radial temperature distribution in the central part of an arc burning through a polyethylene tube. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1993, 113, 1-9.	0.2	0
38	A New Simple Model of Direct Spectral Irradiance with Easily Observable Atmospheric Parameters. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2010, 5, 548-552.	0.8	0
39	Fabrication of DLC-Based Micro-Gear Patterns by Room-Temperature Curing Nanoimprint Lithography Using Glass-Like Carbon Molds. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1511, 1.	0.1	0
40	Nanofabrication of DLC-dot Arrays by Room-temperature Curing Imprint-lift-off Method. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1511, 1.	0.1	0
41	Properties of epitaxial AlN thin film deposited on sapphire substrate by ECR plasma. , 2013, , .		0
42	Effects of catalyst support and chemical vapor deposition condition on synthesis of multi-walled carbon nanocoils. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
43	Fabrication of Diamond-Like Carbon Microgears in Room-Temperature Curing Nanoimprint Lithography Using Ladder-Type Hydrogen Silsesquioxane. <i>MRS Advances</i> , 2016, 1, 1119-1124.	0.5	0
44	Self-supporting tetrahedral amorphous carbon films consisting of multilayered structure prepared using filtered arc deposition. <i>Thin Solid Films</i> , 2019, 675, 123-127.	0.8	0
45	Electrical resistivity and mechanical properties of nitrogen-containing diamondlike carbon/tungsten and nitrogen-containing diamondlike carbon/tungsten carbide multilayer films prepared under low substrate temperature. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, 011801.	0.6	0
46	Single-Walled Carbon Nanotubes with High Hydrogen Capacity. <i>Tanso</i> , 2003, 2003, 199-204.	0.1	0
47	Erosion of Pt-Rh Electrode in Atmospheric-Pressure Mesoplasma Jet. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2009, 129, 157-158.	0.2	0
48	Development of Electromagnetically Pulled-Out Gas Plasma (EPOP) Gun for Medium Vacuum and its Fundamental Discharge Characteristics. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2011, 131, 139-144.	0.2	0
49	Plasma Processing for Carbon Nanomaterials. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012, 132, 421-427.	0.2	0
50	Development of Photovoltaic Simple Pyranometer with Temperature Compensation. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2017, 137, 674-675.	0.2	0
51	Nitrogen Doping of Carbon Nanoballoons by Radio-frequency Magnetron Plasma and Evaluation of their Oxygen Reduction Reaction Activity. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2019, 139, 140-146.	0.2	0