

Yoshiyuki Suda

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Self-assembled nanostructures of 3D hierarchical faceted-iron oxide containing vertical carbon nanotubes on reduced graphene oxide hybrids for enhanced electromagnetic interface shielding. <i>Composites Part B: Engineering</i> , 2019, 168, 66-76.	12.0	88
2	Effects of hydrogen on carbon nanotube formation in CH ₄ /H ₂ plasmas. <i>Carbon</i> , 2007, 45, 1518-1526.	10.3	63
3	Predicting the amount of carbon in carbon nanotubes grown by CH ₄ rf plasmas. <i>Journal of Applied Physics</i> , 2006, 99, 014302.	2.5	57
4	Catalytic activity of several carbons with different structures for methane decomposition and by-produced carbons. <i>Applied Surface Science</i> , 2019, 473, 291-297.	6.1	52
5	Amorphous fluorocarbon polymer (a-C:F) films obtained by plasma enhanced chemical vapor deposition from perfluoro-octane (C ₈ F ₁₈) vapor I: Deposition, morphology, structural and chemical properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 13-19.	2.1	38
6	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.	3.0	38
7	Plasma irradiation of artificial cell membrane system at solid-liquid interface. <i>Applied Physics Express</i> , 2014, 7, 077001.	2.4	31
8	Analysis of Oxidation State of Multilayered Catalyst Thin Films for Carbon Nanotube Growth Using Plasma-Enhanced Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8323-8329.	1.5	28
9	Dry machining of metal using an engraving cutter coated with a droplet-free ta-C film prepared via a T-shape filtered arc deposition. <i>Surface and Coatings Technology</i> , 2016, 307, 1029-1033.	4.8	26
10	Numerical analysis of pressure dependence on carbon nanotube growth in CH ₄ /H ₂ plasmas. <i>Thin Solid Films</i> , 2008, 516, 6570-6574.	1.8	25
11	Effects of Oxygen and Substrate Temperature on Properties of Amorphous Carbon Films Fabricated by Plasma-Assisted Pulsed Laser Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4651-4654.	1.5	24
12	Reduction in lateral lipid mobility of lipid bilayer membrane by atmospheric pressure plasma irradiation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DF05.	1.5	24
13	Torsion fracture of carbon nanocoils. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	22
14	Electrochemical properties of fuel cell catalysts loaded on carbon nanomaterials with different geometries. <i>Materials Today Communications</i> , 2015, 3, 96-103.	1.9	19
15	Splitting and Flattening of Helical Carbon Nanofibers by Acid Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3910-3914.	0.9	18
16	Real-time deformation of carbon nanocoils under axial loading. <i>Carbon</i> , 2015, 83, 183-187.	10.3	18
17	Timesaving techniques for decision of electron-molecule collisions in Monte Carlo simulation of electrical discharges. <i>Journal of Computational Physics</i> , 2007, 223, 298-304.	3.8	16
18	Argon-dominated plasma beam generated by filtered vacuum arc and its substrate etching. <i>Applied Surface Science</i> , 2009, 255, 7780-7785.	6.1	15

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19	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.	1.4	15
20	High-Yield Synthesis of Helical Carbon Nanofibers Using Iron Oxide Fine Powder as a Catalyst. <i>Crystals</i> , 2015, 5, 47-60.	2.2	15
21	Hydrogen-free fluorinated DLC films with high hardness prepared by using T-shape filtered arc deposition system. <i>Vacuum</i> , 2019, 167, 536-541.	3.5	15
22	Filament discharge enhances field emission properties by making twisted carbon nanofibres stand up. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 205418.	2.8	13
23	Carbon-Nanotube Growth in Alcohol-Vapor Plasma. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 1150-1155.	1.3	13
24	T-shape filtered arc deposition system with built-in electrostatic macro-particle trap for DLC film preparation. <i>Thin Solid Films</i> , 2009, 518, 1498-1502.	1.8	11
25	Electromagnetic wave absorption characteristics of multiwalled carbon nanocoils. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 045102.	1.5	11
26	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
27	Computational study of temporal behavior of incident species impinging on a water surface in dielectric barrier discharge for the understanding of plasma-liquid interface. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 01AF03.	1.5	10
28	Electron and excited particle densities in a carbon ablation plume. <i>Applied Surface Science</i> , 2002, 197-198, 257-262.	6.1	9
29	Hydrogen-Sensing Response of Carbon-Nanotube Thin-Film Sensor with Pd Comb-Like Electrodes. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L362-L364.	1.5	9
30	Influences of internal resistance and specific surface area of electrode materials on characteristics of electric double layer capacitors. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	9
31	Enhancement of Nitrogen Gas Breakdown Voltage between Coated Aluminum Electrodes with Fluorocarbon Polymer Film Prepared in C ₈ F ₁₈ Vapor RF Plasma. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L201-L203.	1.5	8
32	Supporting PtRu catalysts on various types of carbon nanomaterials for fuel cell applications. <i>Journal of Physics: Conference Series</i> , 2013, 433, 012008.	0.4	8
33	Improving the characteristic of electric double layer capacitors using oxidized carbon nanoballoon. <i>Electrochimica Acta</i> , 2014, 131, 207-213.	5.2	8
34	Wear-resistive and electrically conductive nitrogen-containing DLC film consisting of ultra-thin multilayers prepared by using filtered arc deposition. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SEED05.	1.5	8
35	Preparation of Arc Black and Carbon Nano Balloon by Arc Discharge and Their Application to a Fuel Cell. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01AF13.	1.5	7
36	DMFC Catalyst Layer Prepared Using Arc-Soot Nano-Carbon by Dry-Squeegee Method and Its Impedance Analysis. <i>Electrochemistry</i> , 2009, 77, 210-213.	1.4	6

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37	Effect of gas introduction position on substrate etching by means of Ar-dominated graphite-cathodic-arc plasma beam in $\frac{1}{4}$ T-FAD. <i>Thin Solid Films</i> , 2010, 518, 3546-3550.	1.8	6
38	Fabrication of nitrogen-containing diamond-like carbon film by filtered arc deposition as conductive hard-coating film. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 01AE07.	1.5	6
39	Development of Y-Shaped Filtered-Arc-Deposition System for Preparing Multielement Composition-Controlled Film. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 1140-1145.	1.3	5
40	Remote Plasma Chemical Vapor Deposition of Carbon Nanotubes and Analysis of Plasma Effect. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3133-3139.	1.3	5
41	Effects of Dielectric Barrier Discharge Treatment Conditions on the Uprightness of Carbon Nanofibers. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 1794-1800.	1.3	5
42	Improved mechanical properties of bucky paper achieved via the addition of carbon nanocoils. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	5
43	Improvement of carbon nanocoil purity achieved by supplying catalyst molecules from the vapor phase in chemical vapor deposition. <i>Journal of Materials Research</i> , 2014, 29, 2179-2187.	2.6	5
44	Preparation of self-supporting Au thin films on perforated substrate by releasing from water-soluble sacrificial layer. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07LE05.	1.5	5
45	Preparation of multi-layer film consisting of hydrogen-free DLC and nitrogen-containing DLC for conductive hard coating. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
46	Electromagnetic wave absorption properties of carbon nanocoil composites in the millimeter waveband. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
47	Optimizing the Magnetocuring of Epoxy Resins via Electromagnetic Additives. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100881.	3.7	5
48	Deposition of Tungsten Carbide Thin Films by Simultaneous RF Sputtering. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8449-8452.	1.5	4
49	Optimization of Chemical Vapor Deposition Process for Reducing the Fiber Diameter and Number of Graphene Layers in Multi Walled Carbon Nanocoils. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 11NL04.	1.5	4
50	Precise measurement of single carbon nanocoils using focused ion beam technique. <i>Applied Physics Letters</i> , 2016, 108, 153108.	3.3	4
51	Preparation of Arc Black and Carbon Nano Balloon by Arc Discharge and Their Application to a Fuel Cell. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01AF13.	1.5	4
52	Removal of Diamond-Like Carbon Film by Oxygen-Dominated Plasma Beam Converted from Filtered Carbon-Cathodic Arc. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01AF12.	1.5	3
53	Effect of Filament Discharge on Uprightness of Carbon Nanotwists Tightly-Adhered to Substrate. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08JF08.	1.5	3
54	Use of carbon nanocoil as a catalyst support in direct methanol fuel cell. , 2014, , .		3

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55	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.	0.5	3
56	Electrical Characteristics and Zirconia Film Preparation by a Zirconium-Oxygen Plasma using a Positively Biased Electrode. Plasma Processes and Polymers, 2007, 4, S647-S650.	3.0	2
57	Plasma processing for carbon nanomaterials. Syntheses of nanostructures and their process control by numerical simulation of plasma. Electronics and Communications in Japan, 2013, 96, 1-8.	0.5	2
58	High-purity synthesis of helical carbon nanofibers and application for energy devices. Metal Powder Report, 2017, 72, 317-321.	0.1	2
59	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
60	Removal of Machine Oil from Metal Surface by Mesoplasma Jet under Open Atmosphere. Japanese Journal of Applied Physics, 2009, 48, 08HH03.	1.5	1
61	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
62	Improvement in the Characteristics of Electric Double Layer Capacitor Using a Mixture of Arc Black and Carbon Nanoballoon. Japanese Journal of Applied Physics, 2013, 52, 11NM05.	1.5	1
63	Chemical Vapor Deposition of Helical Carbon Nanofibers. , 2019, , .		1
64	Manufacturing of Electric Double-layer Capacitors using Carbon Nanocoils and Evaluation of their Specific Capacitance at a High Scan Rate. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 660-667.	0.2	1
65	Effect of Filament Discharge on Uprightness of Carbon Nanotwists Tightly-Adhered to Substrate. Japanese Journal of Applied Physics, 2011, 50, 08JF08.	1.5	1
66	Fabrication and Investigation of Carbon Nano-tube Transistor by the Dip Coat Method. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 409-413.	0.2	1
67	Plasma-enhanced chemical vapor deposition of carbon nanotubes using alcohol vapor. Materials Research Society Symposia Proceedings, 2007, 1057, 1.	0.1	0
68	Is the Diameter or Chirality Distribution of Single-Walled Carbon Nanotubes Selected in the Synthesis Process?. Journal of Nanoscience and Nanotechnology, 2009, 9, 1897-1903.	0.9	0
69	Special Issue on Carbon-Related Materials Processing by Plasma Technologies. IEEE Transactions on Plasma Science, 2012, 40, 1781-1782.	1.3	0
70	Use of Carbon Nanomaterials as a Catalyst Support in Fuel Cells. Materials Science Forum, 2016, 879, 1882-1888.	0.3	0
71	Fabrication and Investigation of Carbon Nanotube Transistor by the Dip Coat Method. Electronics and Communications in Japan, 2016, 99, 79-84.	0.5	0
72	Effects of catalyst support and chemical vapor deposition condition on synthesis of multi-walled carbon nanocoils. AIP Conference Proceedings, 2016, , .	0.4	0

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73	Preparation and properties of fibrous nanocarbon. , 2019, , 471-487.		0
74	Self-supporting tetrahedral amorphous carbon films consisting of multilayered structure prepared using filtered arc deposition. Thin Solid Films, 2019, 675, 123-127.	1.8	0
75	Study of a Wide Area Carbon Nanotubes Preparation for an Environmental Application. Journal of Advanced Oxidation Technologies, 2006, 9, .	0.5	0
76	Evaluation of Ion and Radical Fluxes in CH ₄ /H ₂ Plasma for CNT Growth. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 624-628.	0.2	0
77	Erosion of Pt-Rh Electrode in Atmospheric-Pressure Mesoplasma Jet. IEEJ Transactions on Fundamentals and Materials, 2009, 129, 157-158.	0.2	0
78	Development of Electromagnetically Pulled-Out Gas Plasma (EPOP) Gun for Medium Vacuum and its Fundamental Discharge Characteristics. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 139-144.	0.2	0
79	Removal of Diamond-Like Carbon Film by Oxygen-Dominated Plasma Beam Converted from Filtered Carbon-Cathodic Arc. Japanese Journal of Applied Physics, 2011, 50, 01AF12.	1.5	0
80	Plasma Processing for Carbon Nanomaterials. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 421-427.	0.2	0
81	Performance of Membrane-Electrode-Assembly Using Anode Catalyst Layers with Carbon Nanomaterials of Particle and Fiber Geometries in Direct Methanol Fuel Cell. ECS Meeting Abstracts, 2016, , .	0.0	0
82	Effect of Anode Microporous Layer on the Performance of Direct Methanol Fuel Cell Using Carbon Nanocoil-Supported PtRu Catalyst. ECS Meeting Abstracts, 2016, , .	0.0	0
83	Catalyst Support on Carbon Nanoballoon and Evaluation of Its Catalytic Activity in Direct Methanol Fuel Cells. ECS Meeting Abstracts, 2016, , .	0.0	0
84	Application of Carbon Nanomaterials to an Active Electrode Material in Electric Double Layer Capacitors. ECS Meeting Abstracts, 2016, , .	0.0	0
85	Development of Photovoltaic Simple Pyranometer with Temperature Compensation. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 674-675.	0.2	0
86	Nitrogen Doping of Carbon Nanoballoons by Radio-frequency Magnetron Plasma and Evaluation of their Oxygen Reduction Reaction Activity. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 140-146.	0.2	0