

Won Seok Choi

List of Publications by Year in descending order

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83
papers

922
citations

567281

15
h-index

526287

27
g-index

85
all docs

85
docs citations

85
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamond-like carbon protective anti-reflection coating for Si solar cell. <i>Materials Letters</i> , 2008, 62, 577-580.	2.6	70
2	The effect of annealing on Al-doped ZnO films deposited by RF magnetron sputtering method for transparent electrodes. <i>Thin Solid Films</i> , 2010, 518, 2941-2944.	1.8	68
3	Effect of H ₂ and O ₂ plasma etching treatment on the surface of diamond-like carbon thin film. <i>Applied Surface Science</i> , 2008, 254, 7925-7928.	6.1	67
4	Characterization of Ba(Zr _{0.2} Ti _{0.8})O ₃ thin films deposited by RF-magnetron sputtering. <i>Journal of Crystal Growth</i> , 2002, 237-239, 438-442.	1.5	53
5	Effect of hydrogen plasma pretreatment on growth of carbon nanotubes by MPECVD. <i>Materials Science and Engineering C</i> , 2006, 26, 1211-1214.	7.3	45
6	Implantable Bladder Sensors: A Methodological Review. <i>International Neurourology Journal</i> , 2015, 19, 133-141.	1.2	42
7	The effect of annealing on the properties of diamond-like carbon protective antireflection coatings. <i>Renewable Energy</i> , 2008, 33, 226-231.	8.9	34
8	The effect of cerium doping in barium zirconate titanate thin films deposited by rf magnetron sputtering system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 109, 146-151.	3.5	32
9	Substrate temperature effect on the SiC passivation layer synthesized by an RF magnetron sputtering method. <i>Thin Solid Films</i> , 2011, 519, 6654-6657.	1.8	32
10	The effect of RF power on tribological properties of the diamond-like carbon films. <i>Thin Solid Films</i> , 2005, 475, 287-290.	1.8	27
11	Influence of different plasma treatments on electrical and optical properties on sputtered AZO and ITO films. <i>Journal of Crystal Growth</i> , 2011, 326, 50-57.	1.5	27
12	Synthesis and characterization of SnO ₂ :Sb film by dc magnetron sputtering method for applications to transparent electrodes. <i>Physica Scripta</i> , 2007, T129, 312-315.	2.5	24
13	Investigation of X-ray photoelectron spectroscopy and electrical conductivity properties of the layered perovskite LnBaCo ₂ O _{5+d} (Ln = Pr, Nd, Sm, and Gd) for IT-SOFC. <i>Electronic Materials Letters</i> , 2013, 9, 463-465.	2.2	24
14	Substrate temperature effect on the growth of carbon nanowalls synthesized via microwave PECVD. <i>Materials Research Bulletin</i> , 2014, 58, 112-116.	5.2	21
15	Structural, electrical, and optical properties of antimony-doped tin oxide films prepared at room temperature by radio frequency magnetron sputtering for transparent electrodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 996-1000.	2.1	19
16	Characterization of diamond-like carbon thin films prepared by a microwave plasma enhanced chemical vapor deposition method. <i>Surface and Coatings Technology</i> , 2004, 180-181, 254-258.	4.8	14
17	The effect of annealing on the 0.5% Ce-doped Ba(Zr _x Ti _{1-x})O ₃ (BZT) thin films deposited by RF magnetron sputtering system. <i>Materials Science in Semiconductor Processing</i> , 2002, 5, 211-214.	4.0	13
18	Growth of carbon nanotubes on glass substrate by MPECVD. <i>Materials Science and Engineering C</i> , 2006, 26, 1215-1218.	7.3	13

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19	Electrochemical properties and durability of in-situ composite cathodes with SmBa _{0.5} Sr _{0.5} Co ₂ O ₅ +f for metal supported solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 1212-1220.	7.1	13
20	Direct Growth of Carbon Nanotubes with a Catalyst of Nickel Nanoparticle-coated Alumina Powders. Journal of the Korean Physical Society, 2011, 58, 112-115.	0.7	12
21	Structural and optical properties of a radio frequency magnetron-sputtered ZnO thin film with different growth angles. Nanoscale Research Letters, 2012, 7, 55.	5.7	11
22	Zinc-oxide-deposited Carbon Nanowalls for Acetone Sensing. Thin Solid Films, 2020, 700, 137887.	1.8	11
23	Tribological properties of metal doped a-C film by RF magnetron sputtering method. Materials Research Bulletin, 2012, 47, 2784-2787.	5.2	10
24	Thermal stability of hydrogen-doped AZO thin films for photovoltaic applications. Materials Research Bulletin, 2014, 58, 126-131.	5.2	10
25	Adhesion-Increased Carbon Nanowalls for the Electrodes of Energy Storage Systems. Energies, 2019, 12, 4759.	3.1	10
26	Preparation of a ZnO Nanostructure as the Anode Material Using RF Magnetron Sputtering System. Nanomaterials, 2022, 12, 215.	4.1	10
27	Metal-free CNTs grown on glass substrate by microwave PECVD. Current Applied Physics, 2010, 10, S447-S450.	2.4	9
28	Etching characteristics and mechanisms of SiC thin films in inductively-coupled HBr-Ar, N ₂ , O ₂ plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	2.1	9
29	Synthesis and electrochemical properties of layered perovskite substituted with heterogeneous lanthanides for intermediate temperature-operating solid oxide fuel cell. International Journal of Hydrogen Energy, 2018, 43, 11378-11385.	7.1	9
30	Preparation of Carbon Nanowall and Carbon Nanotube for Anode Material of Lithium-Ion Battery. Molecules, 2021, 26, 6950.	3.8	9
31	Electrical properties of Pb(Zr,Ti)O ₃ films prepared on ITO glass. Microelectronic Engineering, 2008, 85, 2456-2458.	2.4	8
32	SmBa _{1-x} CaxCo ₂ O _{5+d} Layered Perovskite Cathodes for Intermediate Temperature-operating Solid Oxide Fuel Cells. Frontiers in Chemistry, 2020, 8, 628813.	3.6	8
33	An examination of trace surface on diamond-like carbon film after ball-on disk measurement. Thin Solid Films, 2007, 515, 7560-7565.	1.8	7
34	Tribological properties of a-C:W film deposited by radio frequency magnetron Co-sputtering method. Thin Solid Films, 2012, 521, 107-111.	1.8	7
35	Friction force microscopy study of annealed diamond-like carbon film. Materials Research Bulletin, 2012, 47, 2780-2783.	5.2	7
36	Improvement of Electrical Properties of Carbon Nanowall by the Deposition of Thin Film. Journal of Nanoscience and Nanotechnology, 2018, 18, 6026-6028.	0.9	7

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37	Synthesis of Carbon Nanowalls by Microwave PECVD for Battery Electrode. Transactions on Electrical and Electronic Materials, 2015, 16, 198-200.	1.9	7
38	Characterization of a novel super-hydrophilic coating film as a function of different spin coating speeds. Journal of the Korean Physical Society, 2013, 63, 246-250.	0.7	6
39	Growth properties of carbon nanowalls on glass substrates by a microwave plasma-enhanced chemical vapor deposition. Japanese Journal of Applied Physics, 2014, 53, 05FD09.	1.5	6
40	Post-plasma treatment of a carbon nanowall for use as a counter electrode in a dye-sensitized solar cell. Journal of the Korean Physical Society, 2014, 65, 291-296.	0.7	6
41	Electrochemical properties of electrospinning-fabricated layered perovskite used in cathode materials for a low temperature-operating solid oxide fuel cell. Thin Solid Films, 2018, 660, 663-671.	1.8	6
42	Implementation of Image Processing in Studying Contact Conditions of Overhead Contact Line-Pantograph at 400Åkm/h. Journal of Electrical Engineering and Technology, 2020, 15, 989-995.	2.0	6
43	Analysis of Percentage of Arcing between Pantograph and Overhead Contact Line as a Function of Duration of Arc. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 855-859.	0.1	6
44	Characterization of Layered Perovskite Nanofibers using Electrospinning for Cathode Materials of Low Temperature-operating Solid Oxide Fuel Cell. New & Renewable Energy, 2017, 13, 50-58.	0.4	6
45	Pr- and Sm-Substituted Layered Perovskite Oxide Systems for IT-SOFC Cathodes. Energies, 2021, 14, 6739.	3.1	6
46	Selective assembly of DNA using DLC film as passivation layer for the application to nano-device. Diamond and Related Materials, 2009, 18, 1015-1018.	3.9	5
47	Influence of Various Plasma Treatment on the Properties of Carbon Nanotubes for Composite Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 1507-1512.	0.9	5
48	Development and Performance Analysis of Carbon Nanowall-Based Mass Sensor. Journal of Nanoscience and Nanotechnology, 2018, 18, 6552-6554.	0.9	5
49	Analysis of plasma-grown carbon oxide and reduced-carbon-oxide nanowalls. RSC Advances, 2020, 10, 9761-9767.	3.6	5
50	Wettability of CNW/ITO Micro Structure for Modification of Surface Hydrophilicity. Applied Sciences (Switzerland), 2020, 10, 142.	2.5	5
51	Electrical and Optical Properties of Al-Doped ZnO Transparent Conductive Oxide Films Prepared via Radio Frequency Magnetron Co-Sputtering System. Journal of Nanoscience and Nanotechnology, 2020, 20, 6788-6791.	0.9	4
52	Innovative Method Using Adhesive Force for Surface Micromachining of Carbon Nanowall. Nanomaterials, 2020, 10, 1978.	4.1	4
53	Enhanced Electrochemical Properties of Non-stoichiometric Layered Perovskites, $\text{Sm}_{1-x}\text{BaCo}_2\text{O}_{5+d}$, for IT-SOFC Cathodes. Frontiers in Chemistry, 2021, 9, 633868.	3.6	4
54	Growth Properties of Carbon Nanowalls on Nickel and Titanium Interlayers. Molecules, 2022, 27, 406.	3.8	4

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55	Growth of Carbon Nanowalls on Metal-Coated Substrates via Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 9174-9177.	0.9	3
56	Increase in the DSSC efficiency when using metal-coated carbon nanowall counter electrodes. <i>Journal of the Korean Physical Society</i> , 2014, 65, 281-285.	0.7	3
57	Structural and Electrical Characteristics of Carbon Nanowalls Synthesized on the Polyimide Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6309-6311.	0.9	3
58	Study of a Carbon Nanowall Synthesized on an MWCNT-Based Buffer Layer for Improvement of Electrical Properties. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 192.	2.5	3
59	Properties of diamond films with various thicknesses synthesized by using the microwave PECVD method. <i>Journal of the Korean Physical Society</i> , 2012, 60, 2063-2066.	0.7	2
60	A study on the properties of microcrystalline and nanocrystalline diamond films synthesized by using a microwave PECVD method. <i>Journal of the Korean Physical Society</i> , 2013, 63, 1051-1054.	0.7	2
61	Fabrication of Metal-Coated Carbon Nanowalls Synthesized by Microwave Plasma Enhanced Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 9189-9193.	0.9	2
62	Anti-reflection coating of Cerium oxide on a plastic substrate. <i>Journal of the Korean Physical Society</i> , 2015, 66, 252-255.	0.7	2
63	Functional Coating to Improve the Anti-Pollution Characteristics for the Cover Glass of Photovoltaic Module. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1804-1808.	0.9	2
64	Thermal Analysis of Energy Storage Capacity According to Thickness of Nickel/Chromium Alloy Layer. <i>Energies</i> , 2021, 14, 3217.	3.1	2
65	Growth of Metal-Free Carbon Nanotubes on Glass Substrate with an Amorphous Carbon Catalyst Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 11032-11036.	0.9	1
66	Growth Control of Carbon Nanotubes Using by Anodic Aluminum Oxide Nano Templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3872-3875.	0.9	1
67	Annealing Temperature Effect on the Hydrophilic Coating Film for the Cover Glass of the PV Module. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11692-11696.	0.9	1
68	The Thickness Effect of the Functional Film for the Fabrication of Photovoltaic Module. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6393-6397.	0.9	1
69	Development of an anti-pollution coating process technology for the application of an on-site PV module. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 332-336.	2.8	1
70	Characteristics of Functional Film Synthesized on the Cover Glass of Photovoltaic Modules. <i>Energies</i> , 2021, 14, 6671.	3.1	1
71	Study on the Resonant HF DC/DC Converter for the Weight Reduction of the Auxiliary Power Supply of MAGLEV. <i>Communications in Computer and Information Science</i> , 2012, , 254-260.	0.5	1
72	Effect of Annealing Temperature of the Functional Nano Thin Films Synthesized on a Ceramic Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3289-3292.	0.9	1

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73	High performance GOI MISFET with nickel germanide source/ drain using new graded Ge condensation method. , 2006, , .		0
74	Comparative study of CdTe thin film solar cells with wet and dry CdCl ₂ treatment process. , 2010, , .		0
75	Growth of metal-free carbon nanotubes with amorphous carbon catalyst layer on glass substrates by microwave plasma enhanced chemical vapor deposition. , 2010, , .		0
76	Role of the buffer solution in the chemical deposition of CdS films for CIGS solar cell applications. Journal of the Korean Physical Society, 2014, 64, 1566-1571.	0.7	0
77	Characterization Analysis According to Growth Temperature of Carbon Nanowall on Metal Coated Substrate for Electrode Application of Energy Storage. Materials Science Forum, 2017, 904, 115-119.	0.3	0
78	A Study on the Annealing Ambient Effect on the Anti-Pollution Characteristics of Functional Film for PV Modules. Applied Sciences (Switzerland), 2018, 8, 2285.	2.5	0
79	Low-temperature phase synthesis of V _{1-x} Ti _x O ₂ oxide systems using Pt impregnation. Applied Surface Science, 2020, 508, 145280.	6.1	0
80	Anti-pollution Film for PV Modules installed at Railway Systems. Journal of Electrical Engineering and Technology, 0, , 1.	2.0	0
81	Optical Properties of Functional Nano Thin Film Synthesized on Glass Substrate. Journal of Nanoscience and Nanotechnology, 2017, 17, 3160-3163.	0.9	0
82	Growing Properties of Carbon Nanowalls According to the Hydrogen Gas Ratio. Journal of Nanoscience and Nanotechnology, 2020, 20, 6835-6838.	0.9	0
83	Adhesion and Stability Increased Carbon Nanowall for the Application to Lithium-Ion Batteries. Journal of Electrical Engineering and Technology, 0, , .	2.0	0