

Yangdo Kim

List of Publications by Year in descending order

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188
papers

2,919
citations

218677

26
h-index

223800

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188
all docs

188
docs citations

188
times ranked

3333
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas hydrate formation process for pre-combustion capture of carbon dioxide. <i>Energy</i> , 2010, 35, 2729-2733.	8.8	227
2	Ubiquitous magneto-mechano-electric generator. <i>Energy and Environmental Science</i> , 2015, 8, 2402-2408.	30.8	177
3	The growth mechanism and optical properties of ultralong ZnO nanorod arrays with a high aspect ratio by a preheating hydrothermal method. <i>Nanotechnology</i> , 2009, 20, 155603.	2.6	161
4	Gas hydrate formation method to capture the carbon dioxide for pre-combustion process in IGCC plant. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1115-1121.	7.1	139
5	Three-Dimensional Dendritic Cu-Co-P Electrode by One-Step Electrodeposition on a Hydrogen Bubble Template for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10734-10741.	6.7	100
6	Superior performance of anion exchange membrane water electrolyzer: Ensemble of producing oxygen vacancies and controlling mass transfer resistance. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119276.	20.2	80
7	Boosting overall water splitting by incorporating sulfur into NiFe (oxy)hydroxide. <i>Journal of Energy Chemistry</i> , 2022, 64, 364-371.	12.9	68
8	High-performance anion exchange membrane alkaline seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9586-9592.	10.3	67
9	Anisotropic self-biased dual-phase low frequency magneto-mechano-electric energy harvesters with giant power densities. <i>APL Materials</i> , 2014, 2, .	5.1	59
10	Characteristics of ZrO ₂ gate dielectric deposited using Zr ^t -butoxide and Zr(NEt ₂) ₄ precursors by plasma enhanced atomic layer deposition method. <i>Journal of Applied Physics</i> , 2002, 92, 5443-5447.	2.5	55
11	Co ₃ S ₄ nanosheets on Ni foam via electrodeposition with sulfurization as highly active electrocatalysts for anion exchange membrane electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 36-45.	7.1	54
12	Remote plasma enhanced atomic layer deposition of TiN thin films using metalorganic precursor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 8-12.	2.1	53
13	Thermoelectric characteristics of Sb ₂ Te ₃ thin films formed via surfactant-assisted electrodeposition. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5430.	10.3	49
14	Pure SF ₆ and SF ₆ -N ₂ Mixture Gas Hydrates Equilibrium and Kinetic Characteristics. <i>Environmental Science & Technology</i> , 2009, 43, 7723-7727.	10.0	48
15	ZrO ₂ Gate Dielectric Deposited by Plasma-Enhanced Atomic Layer Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 3043-3046.	1.5	45
16	Cyclic voltammetry studies of copper, tin and zinc electrodeposition in a citrate complex system for CZTS solar cell application. <i>Current Applied Physics</i> , 2016, 16, 207-210.	2.4	44
17	Effective load transfer by a chromium carbide nanostructure in a multi-walled carbon nanotube/copper matrix composite. <i>Nanotechnology</i> , 2012, 23, 315705.	2.6	41
18	Effect of TiC particle size on high temperature oxidation behavior of TiC reinforced stainless steel. <i>Applied Surface Science</i> , 2019, 480, 951-955.	6.1	41

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19	Study on the cavitation erosion behavior of hardfacing alloys for nuclear power industry. <i>Wear</i> , 2003, 255, 157-161.	3.1	39
20	Advantages of using Ti-mesh type electrodes for flexible dye-sensitized solar cells. <i>Nanotechnology</i> , 2012, 23, 225602.	2.6	38
21	The effects of additive elements on the sliding wear behavior of Fe-base hardfacing alloys. <i>Wear</i> , 2003, 255, 481-488.	3.1	37
22	Low temperature remote plasma cleaning of the fluorocarbon and polymerized residues formed during contact hole dry etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1548.	1.6	35
23	Multifunctional SWCNT/ZnO Nanocomposites for Enhancing Performance and Stability of Organic Solar Cells. <i>Advanced Materials</i> , 2011, 23, 519-522.	21.0	35
24	Comparison of TiN Films Deposited Using Tetrakisdimethylaminotitanium and Tetrakisdiethylaminotitanium by the Atomic Layer Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4245-4248.	1.5	33
25	Synthesis and luminescence properties of Ho ³⁺ doped Y ₂ O ₃ submicron particles. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 176-181.	4.0	30
26	A Hybrid Joining Technology for Aluminum/Zinc Coated Steels in Vehicles. <i>Journal of Materials Science and Technology</i> , 2010, 26, 858-864.	10.7	29
27	Microstructure and mechanical properties of lightweight TiC-steel composite prepared by liquid pressing infiltration process. <i>Materials Characterization</i> , 2020, 162, 110202.	4.4	25
28	Coercivity enhancement of hot-deformed Nd-Fe-B magnet by grain boundary diffusion process using the reaction of NdHx and Cu nanopowders. <i>Journal of Alloys and Compounds</i> , 2017, 693, 744-748.	5.5	24
29	Effect of solder resist dissolution on the joint reliability of ENIG surface and Sn-Ag-Cu solder. <i>Microelectronics Reliability</i> , 2018, 87, 75-80.	1.7	24
30	Surfactant effects on SF ₆ hydrate formation. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 55-59.	9.4	23
31	Modifying hydrogen bonding interaction in solvent and dispersion of ZnO nanoparticles: impact on the photovoltaic performance of inverted organic solar cells. <i>RSC Advances</i> , 2014, 4, 7160.	3.6	23
32	Enhanced high-temperature compressive strength of TiC reinforced stainless steel matrix composites fabricated by liquid pressing infiltration process. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152714.	5.5	23
33	Surface plasmonic effects on dye-sensitized solar cells by SiO ₂ -encapsulated Ag nanoparticles. <i>Current Applied Physics</i> , 2016, 16, 397-403.	2.4	22
34	High Temperature Mechanical Properties and Wear Performance of B4C/Al7075 Metal Matrix Composites. <i>Metals</i> , 2019, 9, 1108.	2.3	21
35	Cyclic voltammetry study of electrodeposition of CuGaSe ₂ thin films on ITO-glass substrates. <i>Current Applied Physics</i> , 2014, 14, 18-22.	2.4	20
36	Investigation of TiO ₂ nanotubes/nanoparticles stacking sequences to improve power conversion efficiency of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 173, 665-671.	5.2	20

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37	Investigation of fatigue performance for new membrane-type LNG CCS at cryogenic temperature. <i>Marine Structures</i> , 2018, 62, 90-105.	3.8	19
38	Microstructure Effect on the High-Temperature Oxidation Resistance of Ti-Si-N Coating Layers. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 6556-6559.	1.5	18
39	Barrier Characteristics of ZrN Films Deposited by Remote Plasma-Enhanced Atomic Layer Deposition Using Tetrakis(diethylamino)zirconium Precursor. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4085-4088.	1.5	18
40	Fabrication of CIGS Films by Electrodeposition Method for Photovoltaic Cells. <i>Journal of Electronic Materials</i> , 2012, 41, 3375-3381.	2.2	18
41	A fuel cell/battery hybrid power system for an unmanned aerial vehicle. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2379-2385.	1.5	18
42	Characteristics of TiN Films Deposited by Remote Plasma-Enhanced Atomic Layer Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L414-L416.	1.5	16
43	Simultaneous enhancement in coercivity and remanence of Nd ₂ Fe ₁₄ B permanent magnet by grain boundary diffusion process using NdHx. <i>Current Applied Physics</i> , 2015, 15, 461-467.	2.4	16
44	Effect of HFC-134a as a Promoter of CO ₂ Hydrate: Phase Equilibrium, Dissociation Enthalpy and Kinetics. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 4395-4400.	1.9	16
45	Microstructural Evolution and Strengthening Mechanism of SiC/Al Composites Fabricated by a Liquid-Pressing Process and Heat Treatment. <i>Materials</i> , 2019, 12, 3374.	2.9	16
46	Mechanical and Thermal Neutron Absorbing Properties of B ₄ C/Aluminum Alloy Composites Fabricated by Stir Casting and Hot Rolling Process. <i>Metals</i> , 2021, 11, 413.	2.3	16
47	Low-Temperature Growth of Carbon Nanotube by Plasma-Enhanced Chemical Vapor Deposition using Nickel Catalyst. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3578-3581.	1.5	15
48	Effect of laser-assisted nitriding with a high-power diode laser on surface hardening of aluminum-containing martensitic steel. <i>Optics and Laser Technology</i> , 2019, 116, 305-314.	4.6	15
49	A chemically bonded supercapacitor using a highly stretchable and adhesive gel polymer electrolyte based on an ionic liquid and epoxy-triblock diamine network. <i>RSC Advances</i> , 2020, 10, 18945-18952.	3.6	15
50	Effect of RF Power on the Properties of Sputtered-CuS Thin Films for Photovoltaic Applications. <i>Energies</i> , 2020, 13, 688.	3.1	15
51	Effects of particle size and polymorph type of TiO ₂ on the properties of BaTiO ₃ nanopowder prepared by solid-state reaction. <i>Environmental Research</i> , 2021, 202, 111668.	7.5	15
52	Morphologically controlled ZnO nanostructures as electron transport materials in polymer-based organic solar cells. <i>Electrochimica Acta</i> , 2015, 180, 435-441.	5.2	14
53	Thermo-mechanical evolution of ternary Bi-Sn-In solder micropowders and nanoparticles reflowed on a flexible PET substrate. <i>Applied Surface Science</i> , 2017, 415, 28-34.	6.1	14
54	The structure and luminescence of boron nitride doped with Ce ions. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	14

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55	Effect of Copper Cobalt Oxide Composition on Oxygen Evolution Electrocatalysts for Anion Exchange Membrane Water Electrolysis. <i>Frontiers in Chemistry</i> , 2020, 8, 600908.	3.6	14
56	Cobalt-iron-Phosphate Hydrogen Evolution Reaction Electrocatalyst for Solar-Driven Alkaline Seawater Electrolyzer. <i>Nanomaterials</i> , 2021, 11, 2989.	4.1	14
57	Preparation of Property-Controlled Bi-Based Solder Powders by a Ball-Milling Process. <i>Metals</i> , 2016, 6, 74.	2.3	13
58	Easy approach to realize low cost and high cell capacity in sodium nickel-iron chloride battery. <i>Composites Part B: Engineering</i> , 2019, 168, 442-447.	12.0	13
59	Self-assembly of Ni-Fe layered double hydroxide at room temperature for oxygen evolution reaction. <i>Energy Reports</i> , 2020, 6, 248-254.	5.1	13
60	Experimental and thermodynamic study on interfacial reaction of B4C-Al6061 composites fabricated by stir casting process. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157813.	5.5	13
61	Effects of Mn addition on microstructure and mechanical properties of (Al+x at.%Mn)3Ti intermetallic compounds prepared by mechanical alloying and spark plasma sintering. <i>Intermetallics</i> , 2004, 12, 477-485.	3.9	12
62	Promoting electrocatalytic overall water splitting by sulfur incorporation into CoFe-(oxy)hydroxide. <i>Nanoscale Advances</i> , 2021, 3, 6386-6394.	4.6	12
63	Synthesis and Characterization of the $Cu_{0.72}Co_{2.28}O_4$; Catalyst for Oxygen Evolution Reaction in an Anion Exchange Membrane Water Electrolyzer. <i>Journal of Korean Institute of Metals and Materials</i> , 2020, 58, 49-58.	1.0	12
64	Structure control of nanocrystalline TiO ₂ for the dye-sensitized solar cell application. <i>Current Applied Physics</i> , 2010, 10, S406-S409.	2.4	11
65	Electrodeposition of Bi _x Te _y thin films for thermoelectric application. <i>Thin Solid Films</i> , 2013, 546, 48-52.	1.8	11
66	Preferential etching of Si-Si bond in the microcrystalline silicon germanium. <i>Current Applied Physics</i> , 2013, 13, 457-460.	2.4	11
67	Effect of the dehydrogenation speed and Nd content on the microstructure and magnetic properties of HDDR processed Nd-Fe-B magnets. <i>Metals and Materials International</i> , 2014, 20, 909-914.	3.4	11
68	Synthesis and characterization of hollow BaFe ₁₂ O ₁₉ submicron spheres for advance functional magnetic materials. <i>Current Applied Physics</i> , 2014, 14, 1208-1211.	2.4	11
69	Fabrication of functionally graded hydroxyapatite and structurally graded porous hydroxyapatite by using multi-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 139, 106138.	7.6	11
70	Effect of Shielding Gases on the Wire Arc Additive Manufacturability of 5 Cr - 4 Mo Tool Steel for Die Casting Mold Making. <i>Journal of Korean Institute of Metals and Materials</i> , 2020, 58, 852-862.	1.0	11
71	The Influence of Dehydrogenation Speed on the Microstructure and Magnetic Properties of Nd-Fe-B Magnets Prepared by HDDR Process. <i>Journal of Magnetism</i> , 2014, 19, 49-54.	0.4	11
72	Damper modeling for dynamic simulation of a large bus with MR damper. <i>International Journal of Automotive Technology</i> , 2011, 12, 521-527.	1.4	10

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73	Characteristic of Ga-Doped ZnO Films Deposited by DC Magnetron Sputtering with a Sintered Ceramic ZnO:Ga Target. Journal of the Korean Physical Society, 2008, 53, 416-420.	0.7	10
74	Wet-Chemically Prepared NiO Layers as Hole Transport Layer in the Inverted Organic Solar Cell. Bulletin of the Korean Chemical Society, 2011, 32, 1067-1070.	1.9	10
75	Growth behaviour of ZnO thin films and nanowires on SrTiO ₃ substrates. Solid State Communications, 2007, 143, 140-143.	1.9	9
76	Synthesis and optical properties of Gd ₂ O ₃ :Pr ³⁺ phosphor particles. Journal of Sol-Gel Science and Technology, 2012, 64, 156-161.	2.4	9
77	Mechanical properties of individual nanorods and nanotubes in forest-like structures. Scripta Materialia, 2017, 133, 54-58.	5.2	9
78	Silane-treated BaTiO ₃ ceramic powders for multilayer ceramic capacitor with enhanced dielectric properties. Chemosphere, 2022, 286, 131734.	8.2	9
79	Effect of Pre-Aging Treatment on Bake-Hardenability of Al-8.0Zn-2.5Mg-2.0Cu Alloy Sheet Fabricated by Twin-Roll Casting Process. Journal of Korean Institute of Metals and Materials, 2019, 57, 396-404.	1.0	9
80	Fabrication of CuIn(Ga)Se ₂ Thin Films by Electrochemical Deposition with Additive. Journal of the Electrochemical Society, 2011, 159, E1-E4.	2.9	8
81	Thermal Properties of epoxy composites with silicon carbide and/or graphite. Journal of the Korean Physical Society, 2016, 68, 551-556.	0.7	8
82	Characteristics of the oxygen evolution reaction on synthetic copper - cobalt - oxide electrodes for water electrolysis. Journal of the Korean Physical Society, 2016, 69, 1187-1190.	0.7	8
83	Investigation of surface defects of electroless Ni plating by solder resist dissolution on the ENIG process. Microelectronic Engineering, 2018, 200, 39-44.	2.4	8
84	Dispersion Mechanism and Mechanical Properties of SiC Reinforcement in Aluminum Matrix Composite through Stir- and Die-Casting Processes. Applied Sciences (Switzerland), 2021, 11, 952.	2.5	8
85	Effect of Boron Carbide Addition on Wear Resistance of Aluminum Matrix Composites Fabricated by Stir Casting and Hot Rolling Processes. Metals, 2021, 11, 989.	2.3	8
86	Characterization of Partial Interfacial Fracture on Resistance Spot-Welded TRIP Steels for Automotive Applications. Journal of Korean Institute of Metals and Materials, 2012, 50, 136-145.	1.0	8
87	MoS ₂ /CNFs derived from Electrospinning and Heat treatment as the Efficient Electrocatalyst for Hydrogen Evolution Reaction in Acidic Solution. Journal of Korean Institute of Metals and Materials, 2018, 56, 885-892.	1.0	8
88	Wear Behaviors of Stainless Steel and Lubrication Effect on Transitions in Lubrication Regimes in Sliding Contact. Metals, 2021, 11, 1854.	2.3	8
89	Removal of the Metallorganic Polymer Residues Formed at Via Holes. Journal of the Electrochemical Society, 2004, 151, G323.	2.9	7
90	Microfabrication and optical properties of highly ordered silver nanostructures. Nanoscale Research Letters, 2012, 7, 292.	5.7	7

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91	Crystallization behavior of microcrystalline silicon germanium. <i>Thin Solid Films</i> , 2013, 534, 214-217.	1.8	7
92	Surface Characteristic of Chemically Converted Graphene Coated Low Carbon Steel by Electro Spray Coating Method for Polymer Electrolyte Membrane Fuel Cell Bipolar Plate. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3387-3391.	0.9	7
93	Surface chemistry modification in ITO films induced by Sn ²⁺ ionic state variation. <i>Current Applied Physics</i> , 2017, 17, 1415-1421.	2.4	7
94	High throughput process for the continuous preparation of quantum dots using fluid dynamically controlled reactor. <i>Journal of Alloys and Compounds</i> , 2019, 784, 816-821.	5.5	7
95	Enhanced Crystallinity and Luminescence Characteristics of Hexagonal Boron Nitride Doped with Cerium Ions According to Tempering Temperatures. <i>Materials</i> , 2021, 14, 193.	2.9	7
96	Study on Coating Melting Behavior on Weld Growth Mechanism for Al-Si coated Hot-Stamped Boron Steels in Resistance Spot Welding. <i>Journal of Korean Institute of Metals and Materials</i> , 2014, 52, 931-941.	1.0	7
97	Coercivity Enhancement in Nd ₂ Fe ₁₄ B Permanent Magnetic Powders through Rotating Diffusion Process with DyH _x Powders. <i>Journal of Magnetism</i> , 2011, 16, 342-349.	0.4	7
98	Compositional Variations of TiAlN Films Deposited by Metalorganic Atomic Layer Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 562-565.	1.5	6
99	Structural and electrochemical properties of gold-deposited carbon nanotube composites. <i>Current Applied Physics</i> , 2010, 10, S201-S205.	2.4	6
100	Improved conversion efficiency of dye-sensitized solar cell based on the porous anodic TiO ₂ nanotubes. <i>Current Applied Physics</i> , 2011, 11, S320-S323.	2.4	6
101	Oxygen evolution reaction characteristics of synthetic nickel-cobalt-oxide electrodes for alkaline anion-exchange membrane water electrolysis. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1558-1562.	0.7	6
102	Synthesis of Glycerol Carbonate by Transesterification of Glycerol with Urea Over Zn/Al Mixed Oxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 321-325.	0.9	6
103	Surface Characteristics of Indium-Tin Oxide Cleaned by Remote Plasma. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 1041-1044.	1.5	5
104	Effect of Sol-Gel Prepared ZnO Electron Selective Layer on the Performance of Inverted Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 538, 164-170.	0.9	5
105	Electrical/thermoelectric characterization of electrodeposited Bi _x Sb _{2-2x} Te ₃ thin films. <i>Electronic Materials Letters</i> , 2013, 9, 687-691.	2.2	5
106	The effect of loading on sintering and catalytic activity of Pt/SiO ₂ hybrid catalyst powders synthesized via spray pyrolysis. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1980-1984.	2.7	5
107	Effects of Strain and Strain Rate on Microstructure and Magnetic Properties of Nd-Fe-B Magnets During Die-Upsetting Process. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	5
108	Coercivity Enhancement of Nd-Fe-B HDDR Powder by Grain Boundary Diffusion Process with Rare-Earth Hydride. <i>Jom</i> , 2018, 70, 661-665.	1.9	5

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109	Effect of Nonionic Surfactants on F-Gases (HFC-134a and SF ₆) Hydrate Formation. Industrial & Engineering Chemistry Research, 2018, 57, 12980-12986.	3.7	5
110	Fabrication of TiB ₂ /Al1050 Composites with Improved Microstructural and Mechanical Properties by a Liquid Pressing Infiltration Process. Materials, 2020, 13, 1588.	2.9	5
111	Examination of Suitable Bandgap Grading of Cu(InGa)Se ₂ Bottom Absorber Layers for Tandem Cell Application. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000658.	1.8	5
112	Effect of Electrode Patterning on Melting Behavior and Electrode Degradation in Resistance Spot Welding of A6014-T4 Alloy. Journal of Korean Institute of Metals and Materials, 2020, 58, 863-874.	1.0	5
113	Post Treatment of CdSe Nanoparticles Synthesized in Aqueous Solution by Using Thiol-Alcohol. Journal of the Korean Physical Society, 2008, 53, 133-136.	0.7	5
114	Influence of backing materials towards the fatigue strength of butt-welded joints. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 1798-1807.	2.1	4
115	A self-operated polymer electrolyte fuel cell system operating at dead-end conditions using pure hydrogen and oxygen gases. Journal of Mechanical Science and Technology, 2015, 29, 3541-3547.	1.5	4
116	Novel synthesizing method of BaFe ₁₂ O ₁₉ micro rod and its superior coercivity with shape anisotropy. Materials Letters, 2015, 139, 292-295.	2.6	4
117	Synthesis of Zn/Al mixed-oxide catalyst for carbonylation of glycerol with urea. Research on Chemical Intermediates, 2016, 42, 83-93.	2.7	4
118	The Effect of ALD-Zn(O,S) Buffer Layer on the Performance of CIGS _{Se} Thin Film Solar Cells. Energies, 2020, 13, 412.	3.1	4
119	Synthesis of Ultra-Fine Grained Nd-Fe-B Magnetic Powder by the Control of DR Speed during HDDR Process. Journal of Korean Institute of Metals and Materials, 2013, 51, 371-376.	1.0	4
120	Pre-Combustion Capture of Carbon Dioxide Using Principles of Gas Hydrate Formation. Korean Journal of Materials Research, 2008, 18, 650-654.	0.2	4
121	Electrocatalytic Properties of Pulse-Reverse Electrodeposited Nickel Phosphide for Hydrogen Evolution Reaction. Frontiers in Chemistry, 2021, 9, 781838.	3.6	4
122	Field-Emission Activation on Boron-Doped Chemical-Vapor-Deposited Polycrystalline Diamond Films. Japanese Journal of Applied Physics, 2002, 41, 3081-3084.	1.5	3
123	Characteristics of Polymer Residues Formed at the Via Hole and Photoresist Ashing Properties of Remote Oxygen/Nitrogen Plasma. Japanese Journal of Applied Physics, 2003, 42, 1212-1215.	1.5	3
124	Photoluminescence Analysis of White-Light-Emitting Si Nanoparticles Using Effective Mass Approximation Method. Japanese Journal of Applied Physics, 2005, 44, 5843-5846.	1.5	3
125	Formation and some properties of Fe core-shell powders with experimental parameters of the chemical vapor condensation process. Journal of Alloys and Compounds, 2009, 483, 359-362.	5.5	3
126	Characterization of Attractive Interaction-driven Carbon Nanotube Composites with Cd-Based Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 6453-6458.	0.9	3

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127	Crystallization Behavior of Silicon Quantum Dots in a Silicon Nitride Matrix. Journal of Nanoscience and Nanotechnology, 2012, 12, 1448-1452.	0.9	3
128	Electrochemical behavior of CIGS electrodeposition for applications to photovoltaic cells. Journal of the Korean Physical Society, 2014, 64, 1138-1143.	0.7	3
129	Carbon Nano Tube Supported Pd Catalyst: Effect of Support Textual Properties with Pre-Treatment Method of Pd Particle. Journal of Nanoscience and Nanotechnology, 2015, 15, 9052-9056.	0.9	3
130	Fabrication of Cd-free CuInSe ₂ solar cells using wet processes. Journal of Materials Science, 2017, 52, 13533-13540.	3.7	3
131	Stability of a Cu _{0.7} Co _{2.3} O ₄ electrode during the oxygen evolution reaction for alkaline anion-exchange membrane water electrolysis. Journal of the Korean Physical Society, 2018, 72, 52-56.	0.7	3
132	Electric current assisted microstructure evolution of bioceramic materials: Intragranular pore containing bulk hydroxyapatites. Scripta Materialia, 2019, 159, 80-84.	5.2	3
133	Formation of Copper Seed Layers and Copper Via Filling with Various Additives. Korean Journal of Materials Research, 2012, 22, 335-341.	0.2	3
134	Thermal Destruction of Waste Insulating Oil Containing PCBs under High Temperature and Pressurized Conditions. Environmental Engineering Research, 2012, 17, 157-165.	2.5	3
135	Treatment of Light-Induced Degradation for Solar Cells in a p-PERC Solar Module via Induction Heating. Energies, 2021, 14, 6352.	3.1	3
136	Investigation of the Texture and Dislocation Behavior of AZ31 Magnesium Alloy Under Different Strain Rate Conditions. Journal of Korean Institute of Metals and Materials, 2019, 57, 279-288.	1.0	3
137	Effect of Ce and La Substitution on the Microstructure and Magnetic Properties of Hot-deformed Nd-Fe-B Magnets. Journal of Magnetism, 2020, 25, 197-204.	0.4	3
138	Effects of Organic Additives on the Residual Stress of Ni and Ni Alloys Electrodeposited from the Sulfamate Bath. ECS Transactions, 2009, 16, 167-175.	0.5	2
139	Electrical/Thermoelectric characterization of electrodeposited Bi _x Sb _{2-x} Te ₃ thin films. AIP Conference Proceedings, 2012, , .	0.4	2
140	Compensation for Cracks Formed on an Electrochemically Deposited CuInSe ₂ Absorption Layer. Journal of Electronic Materials, 2015, 44, 4779-4786.	2.2	2
141	Preparation of iron aluminate (FeAl ₂ O ₄) nanoparticles from FeAl ₂ O ₄ hollow particles fabricated by using a spray pyrolysis process. Journal of the Korean Physical Society, 2015, 66, 1503-1507.	0.7	2
142	Electrochemical studies on the CZT precursor deposition for CZTS solar cell application. Journal of the Korean Physical Society, 2016, 69, 1450-1455.	0.7	2
143	Boron behavior induced lamellar structure and anisotropic magnetic properties of Nd ₂ Fe ₁₄ B during HDDR process. Journal of the Korean Physical Society, 2017, 71, 130-133.	0.7	2
144	Characterization of the Contamination Factor of Electroless Ni Plating Solutions on the ENIG Process. Journal of Electronic Materials, 2018, 47, 5158-5164.	2.2	2

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145	Geometrical effects on the surface plasmonic resonance by highly ordered Au nanostructures. Journal of Physics and Chemistry of Solids, 2019, 126, 150-154.	4.0	2
146	Improving the performance of pure sulfide Cu(InGa)S ₂ solar cells via injection annealing system. Current Applied Physics, 2021, 22, 71-76.	2.4	2
147	Characteristics of ITO films deposited on a PET substrate under various deposition conditions. Metals and Materials International, 2008, 14, 745-751.	3.4	2
148	Fabrication and Characterization of Ge ₂ Sb ₂ Te ₅ Nanowire Arrays and PEDOT: PSS Hybrid Thermoelectric Composites. Journal of Korean Institute of Metals and Materials, 2017, 55, 432-439.	1.0	2
149	Characteristic of Through Silicon Via's Seed Layer Deposition and Via Filling. Korean Journal of Materials Research, 2013, 23, 550-554.	0.2	2
150	Resistance Spot Welding of Dissimilar Materials of Austenitic Stainless Steels and IF (Interstitial Free) Steels. Korean Journal of Materials Research, 2009, 19, 369-375-369-375.	0.2	2
151	Effects of Pre-sintered Granules on the Characteristics of Porous Zirconia. Journal of the Korean Ceramic Society, 2012, 49, 566-574.	2.3	2
152	Electrochemical Analysis of Cu _x Co _{3-x} O ₄ Catalyst for Oxygen Evolution Reaction Prepared by Sol-Gel Method. Korean Journal of Materials Research, 2019, 29, 92-96.	0.2	2
153	Effect of Microstructure on Low-Temperature Fracture Toughness of a Submerged-Arc-Welded Low-Carbon and Low-Alloy Steel Plate. Metals, 2021, 11, 1839.	2.3	2
154	The Fabrication of TiO ₂ Mesoporous Thick Films by Employing a Pre-Embedded ZnO Nanorods Support. Journal of Nanoscience and Nanotechnology, 2009, 9, 7145-9.	0.9	1
155	Membrane Growth of Nanoporous Silicates via the Self-Assembly Monolayer. Journal of Nanoscience and Nanotechnology, 2011, 11, 730-733.	0.9	1
156	Development of a Highly Densified Magnetic Sheet for Inductors and Advanced Processes through Silane Surface Treatment of Fe Nanopowder. Applied Sciences (Switzerland), 2020, 10, 4770.	2.5	1
157	Effects of Electrodeposited Ga-doped ZnO Buffer Layer on the Performance of Inverted Organic Solar Cells. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 181-185.	0.5	1
158	Effect of the Deposition Time onto Structural Properties of Cu ₂ ZnSnS ₄ Thin Films Deposited by Pulsed Laser Deposition. Korean Journal of Materials Research, 2013, 23, 7-12.	0.2	1
159	Comparison of Hot-deformation Behavior and Magnetic Properties between Nd-Fe-B HDDR and MQU-F Powder. Journal of Magnetism, 2020, 25, 29-35.	0.4	1
160	Mechanical and Electrochemical Properties of Plasma Electrolytic Oxide Coatings on Aged Mg-Al alloy. Korean Journal of Materials Research, 2007, 17, 648-653.	0.2	1
161	Interfacial Adhesion Properties of Enamel-coated Alloyed Steels. Journal of Korean Institute of Metals and Materials, 2010, 48, 235-240.	1.0	1
162	Pore Structure and Characteristics of Hollow Spherical Carbon Foam According to Carbonization Temperature and Re-immersion Treatment. Korean Journal of Materials Research, 2013, 23, 24-30.	0.2	1

#	ARTICLE	IF	CITATIONS
163	Bake-hardening Properties of Al-0.6Mg-1.2Si Alloy Sheets Fabricated by Twin Roll Casting. Journal of Korean Institute of Metals and Materials, 2017, 55, .	1.0	1
164	Effect of P/Al Molar Ratio and Curing Conditions of CBAPC Binder on Flexural Strength and Moisture Resistance of Artificial Sand Core. Journal of Korean Institute of Metals and Materials, 2019, 57, 808-816.	1.0	1
165	Analysis of transient currents due to the electron beam irradiation to boron-doped homoepitaxial diamond films. Diamond and Related Materials, 1999, 8, 892-896.	3.9	0
166	Plasma Enhanced Atomic Layer Deposition of ZrO ₂ Gate Dielectric. Materials Research Society Symposia Proceedings, 2002, 716, 211.	0.1	0
167	Removal of the Polymer Formed at Via Hole with Via Etching Stopped on an Al layer Structure. Japanese Journal of Applied Physics, 2003, 42, 1216-1221.	1.5	0
168	STUDY ON IN-SITU DIFFUSIBLE HYDROGEN SENSOR FOR WELDED HSLA STEEL. AIP Conference Proceedings, 2008, , .	0.4	0
169	Fatigue and Fracture Performance of Insulation System in LNG Carriers. , 2011, , .		0
170	Investigation of Bonding Characteristics Between Si Quantum Dots and a SiO ₂ Matrix. Journal of Nanoscience and Nanotechnology, 2012, 12, 1444-1447.	0.9	0
171	Microstructure and Mechanical Properties of Functional Graded Ti-Al-Si-N-O Nanocomposite Films Deposited by Filtered Arc Ion Plating Technique. Journal of Nanoscience and Nanotechnology, 2019, 19, 1082-1085.	0.9	0
172	Indentation-induced cracking behavior of a Cu(In,Ga)Se ₂ films on Mo substrate. Journal of Materials Research and Technology, 2021, 13, 1132-1138.	5.8	0
173	Development of a Low-Power Static Random Access Memory with a Spacer-on-Stopper Structure Using Co Salicide. Journal of the Korean Physical Society, 2003, 43, 802-806.	0.7	0
174	Characteristics of Hafnium Oxide Gate Dielectrics Deposited by Remote Plasma-enhanced Atomic Layer Deposition using Oxygen Plasma. Korean Journal of Materials Research, 2007, 17, 263-267.	0.2	0
175	Effects of Surfactant on SF ₆ Gas Hydrate Formation Rate. Korean Journal of Materials Research, 2008, 18, 73-76.	0.2	0
176	Electrochemical Deposition of CdSe Nanorods for Photovoltaic Cell Applications. Korean Journal of Materials Research, 2009, 19, 596-600.	0.2	0
177	The Cooperation Effect of Mixed PEGs with Different Molecular Weights on The Morphology of TiO ₂ Porous Thin Films. Journal of the Korean Physical Society, 2010, 56, 413-416.	0.7	0
178	Fabrication of Silicon Quantum Dots in Si ₃ N ₄ Matrix Using RF Magnetron Co-Sputtering. Korean Journal of Materials Research, 2010, 20, 606-610.	0.2	0
179	Characteristics of SiO ₂ /Si Quantum Dots Super Lattice Structure Prepared by Magnetron Co-Sputtering Method. Korean Journal of Materials Research, 2010, 20, 586-591.	0.2	0
180	Electrical and Luminescent Properties of OLEDs by Nickel Oxide Buffer Layer with Controlled Thickness Gyu-Chae Choi ^{1,2} , Kook-Chae Chung ^{1,*} , Young-Kuk Kim ¹ ,. Journal of Korean Institute of Metals and Materials, 2011, 49, .	1.0	0

#	ARTICLE	IF	CITATIONS
181	The Effect of Paint Baking on the Strength and Failure of Spot Welds for Advanced High Strength Steels. Journal of Korean Institute of Metals and Materials, 2011, 49, .	1.0	0
182	Fabrication of Poly Seed Layer for Silicon Based Photovoltaics by Inversed Aluminum-Induced Crystallization. Korean Journal of Materials Research, 2012, 22, 190-194.	0.2	0
183	Fabrication and Characterization of Hybrid NTC Thermistor Films with Conducting Oxide Particles by an Aerosol-Deposition Process. Journal of the Korean Ceramic Society, 2013, 50, 63-69.	2.3	0
184	Cyclic Voltammetry Study on Electrodeposition of CuInSe ₂ Thin Films. Korean Journal of Materials Research, 2013, 23, 638-642.	0.2	0
185	Microstructural Characteristics of Electro-Plated Cu Films by DC and Pulse Systems. Korean Journal of Materials Research, 2014, 24, 105-110.	0.2	0
186	Efficiency Improvement of Inverted Polymer Solar Cell by Reduction of Surface Roughness of ZnO Nanoparticles Film. Journal of Korean Institute of Metals and Materials, 2014, 52, 813-819.	1.0	0
187	Effect of CaF ₂ Addition on the Crystallinity of Hexagonal Boron Nitride Nanoparticles. Journal of Korean Institute of Metals and Materials, 2018, 56, 915-920.	1.0	0
188	Reaction Kinetics Analysis of Treatment Process on Light-Induced Degradation for p-Type Passivated Emitter and Rear Contact Solar Cell Module with Gallium Cz-Si Wafer. Energies, 2022, 15, 3563.	3.1	0