Weon Ho Shin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Thermoelectric transport properties of S-doped In0.9Si0.1Se. Journal of the Korean Ceramic Society, 2022, 59, 64-69.	1.1	4
2	Origination of forced particle-void networks for superior electron and mass transfer in binder-free supercapacitors. Scripta Materialia, 2022, 208, 114317.	2.6	1
3	Enhanced Production of Bacterial Cellulose from Miscanthus as Sustainable Feedstock through Statistical Optimization of Culture Conditions. International Journal of Environmental Research and Public Health, 2022, 19, 866.	1.2	21
4	Synthesis of flower-like manganese oxide for accelerated surface redox reactions on nitrogen-rich graphene of fast charge transport for sustainable aqueous energy storage. Journal of Materials Chemistry A, 2022, 10, 7668-7676.	5.2	5
5	Thermoelectric Properties of Cu2Te Nanoparticle Incorporated N-Type Bi2Te2.7Se0.3. Materials, 2022, 15, 2284.	1.3	7
6	Study of Phase Formation Behavior and Electronic Transport Properties in the FeSe2 -FeTe2 System. Journal of Korean Institute of Metals and Materials, 2022, 60, 315-320.	0.4	8
7	Fabrication of Large-Area Mullite–Cordierite Composite Substrates for Semiconductor Probe Cards and Enhancement of Their Reliability. Materials, 2022, 15, 4283.	1.3	2
8	Enhancement of thermal stability of Nd–Fe–B sintered magnets with tuned Tb-diffused microstructures via temperature control. Journal of Alloys and Compounds, 2021, 855, 157478.	2.8	25
9	Aerosolâ€deposited Al ₂ O ₃ /PTFE hydrophobic coatings with adjustable transparency. Journal of the American Ceramic Society, 2021, 104, 1716-1725.	1.9	6
10	Silver Nanowire Network Hybridized with Silver Nanoparticle-Anchored Ruthenium Oxide Nanosheets for Foldable Transparent Conductive Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 11396-11402.	4.0	10
11	Thermoelectric Properties of Te-doped In0.9Si0.1Se with Enhanced Effective Mass. Electronic Materials Letters, 2021, 17, 340-346.	1.0	4
12	Improved Electrical Characteristics of Gallium Oxide/P-Epi Silicon Carbide Static Induction Transistors with UV/Ozone Treatment Fabricated by RF Sputter. Materials, 2021, 14, 1296.	1.3	5
13	Recent Development of Transition Metal Oxide Based Aqueous Supercapacitor Electrode Materials. Ceramist, 2021, 24, 145-156.	0.0	3
14	Piezoelectric composite of BaTiO3-coated SnO2 microsphere: Li-ion battery anode with enhanced electrochemical performance based on accelerated Li+ mobility. Journal of Alloys and Compounds, 2021, 870, 159267.	2.8	10
15	Effect of Br substitution on thermoelectric transport properties in layered SnSe2. Journal of Alloys and Compounds, 2021, 868, 159161.	2.8	21
16	Cumulative defect structures for experimentally attainable low thermal conductivity in thermoelectric (Bi,Sb)2Te3 alloys. Materials Today Energy, 2021, 21, 100795.	2.5	27
17	Enhanced thermoelectric properties of Hf-free half-Heusler compounds prepared via highly fast process. Journal of Alloys and Compounds, 2021, 886, 161293.	2.8	6
18	Development of Colorimetric Whole-Cell Biosensor for Detection of Heavy Metals in Environment for Public Health. International Journal of Environmental Research and Public Health, 2021, 18, 12721.	1.2	6

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19	Nanostructured PVdF-HFP/TiO ₂ Composite as Protective Layer on Lithium Metal Battery Anode with Enhanced Electrochemical Performance. Membrane Journal, 2021, 31, 417-425.	0.2	0
20	Investigation of Phase Segregation in p-Type Bi0.5Sb1.5Te3 Thermoelectric Alloys by In Situ Melt Spinning to Determine Possible Carrier Filtering Effect. Materials, 2021, 14, 7567.	1.3	1
21	Nanoparticles in Bi0.5Sb1.5Te3: A prerequisite defect structure to scatter the mid-wavelength phonons between Rayleigh and geometry scatterings. Acta Materialia, 2020, 185, 271-278.	3.8	21
22	Effect of ZnO and SnO2 Nanolayers at Grain Boundaries on Thermoelectric Properties of Polycrystalline Skutterudites. Nanomaterials, 2020, 10, 2270.	1.9	5
23	Two Steps to Improve the Thermoelectric Performance of the Ca _{5–<i>x</i>} Yb _{<i>x</i>} Al _{2–<i>y</i>} In _{<i>y</i>} Sb _{6 System. Inorganic Chemistry, 2020, 59, 13572-13582.}	o⊲(anp>	9
24	Enzymatic Synthesis of Formate Ester through Immobilized Lipase and Its Reuse. Polymers, 2020, 12, 1802.	2.0	23
25	Charge Transport Behavior of Al-Doped ZnO Incorporated with Reduced Graphene Oxide Nanocomposite Thin Film. Applied Sciences (Switzerland), 2020, 10, 7703.	1.3	1
26	Fabrication of high-quality alumina coating through novel, dual-particle aerosol deposition. Ceramics International, 2020, 46, 23686-23694.	2.3	10
27	Important role of Cu in suppressing bipolar conduction in Bi-rich (Bi,Sb)2Te3. Scripta Materialia, 2020, 186, 225-229.	2.6	6
28	Improved carrier transport properties by I-doping in n-type Cu0.008Bi2Te2.7Se0.3 thermoelectric alloys. Scripta Materialia, 2020, 186, 357-361.	2.6	8
29	Simultaneous Enhancement of Electrical and Optical Properties of Transparent Conducting RuO2 Nanosheet films by Facile Ultraviolet-Ozone Irradiation. Applied Sciences (Switzerland), 2020, 10, 4127.	1.3	3
30	Novel Hybrid Conductor of Irregularly Patterned Graphene Mesh and Silver Nanowire Networks. Micromachines, 2020, 11, 578.	1.4	3
31	Facile and accelerated production of RuO2 monolayers via a dual-step intercalation process. Inorganic Chemistry Frontiers, 2020, 7, 1445-1450.	3.0	5
32	Degradation behaviors and failure of magnetron sputter deposited tantalum nitride. Thin Solid Films, 2020, 697, 137821.	0.8	10
33	Effect of Flash Light Sintering on Silver Nanowire Electrode Networks. Materials, 2020, 13, 404.	1.3	6
34	Polymer/Inorganic Nanohybrid Membrane on Lithium Metal Electrode: Effective Control of Surficial Growth of Lithium Layer and Its Improved Electrochemical Performance. Membrane Journal, 2020, 30, 30-37.	0.2	2
35	Reduced Bipolar Conduction in Bandgap-Engineered n-Type Cu0.008Bi2(Te,Se)3 by Sulfur Doping. Energies, 2020, 13, 337.	1.6	6
36	Enhanced Energy-Transfer Properties in Core-Shell Photoluminescent Nanoparticles Using Mesoporous SiO ₂ Intermediate Layers. Journal of Korean Institute of Metals and Materials, 2020, 58, 137-144.	0.4	2

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37	Individual Confinement of Block Copolymer Microdomains in Nanoscale Crossbar Templates. Advanced Functional Materials, 2019, 29, 1805795.	7.8	12
38	Grain Boundary Interfaces Controlled by Reduced Graphene Oxide in Nonstoichiometric SrTiO3-δ Thermoelectrics. Scientific Reports, 2019, 9, 8624.	1.6	50
39	Synergistic Influence of Cu Intercalation on Electronic and Thermal Properties of n-Type CuxBi2Te2.7Se0.3 Polycrystalline Alloys. Journal of Electronic Materials, 2019, 48, 1951-1957.	1.0	3
40	X-site aliovalent substitution decoupled charge and phonon transports in XYZ half-Heusler thermoelectrics. Acta Materialia, 2019, 166, 650-657.	3.8	10
41	Thermoelectric Transport Properties of Interface-Controlled p-type Bismuth Antimony Telluride Composites by Reduced Graphene Oxide. Electronic Materials Letters, 2019, 15, 605-612.	1.0	11
42	Effect of Rare-Earth Metals Substitution for Ca on the Crystal Structure and Thermoelectric Properties of the Ca _{11–<i>x</i>} RE _{<i>x</i>} Sb _{10–<i>y</i>} System. Crystal Growth and Design, 2019, 19, 3498-3508.	1.4	13
43	Enhanced thermoelectric transport properties of n-type InSe due to the emergence of the flat band by Si doping. Inorganic Chemistry Frontiers, 2019, 6, 1475-1481.	3.0	39
44	Hierarchical multi-level block copolymer patterns by multiple self-assembly. Nanoscale, 2019, 11, 8433-8441.	2.8	22
45	Chemically synthesized Cu2Te incorporated Bi-Sb-Te p-type thermoelectric materials for low temperature energy harvesting. Scripta Materialia, 2019, 165, 78-83.	2.6	19
46	Layer-number dependent electrical and optical properties of transparent conductive RuO <sub align="right">2 nanosheets films. International Journal of Nanotechnology, 2019, 16, 297.</sub 	0.1	0
47	Influence of Pd Doping on Electrical and Thermal Properties of n-Type Cu0.008Bi2Te2.7Se0.3 Alloys. Materials, 2019, 12, 4080.	1.3	9
48	Protective carbon-coated silicon nanoparticles with graphene buffer layers for high performance anodes in lithium-ion batteries. Applied Surface Science, 2019, 467-468, 926-931.	3.1	30
49	Highly luminescent and stable green-emitting In(Zn,Ga)P/ZnSeS/ZnS small-core/thick-multishell quantum dots. Journal of Luminescence, 2019, 205, 555-559.	1.5	14
50	Effects of Cl-Doping on Thermoelectric Transport Properties of Cu2Se Prepared by Spark Plasma Sintering. Journal of Electronic Materials, 2019, 48, 1958-1964.	1.0	18
51	Oxygen vacancy revived phonon-glass electron-crystal in SrTiO3. Journal of the European Ceramic Society, 2019, 39, 358-365.	2.8	59
52	Synthesis and thermoelectric properties of Ti-substituted (Hf0.5Zr0.5)1-xTixNiSn0.998Sb0.002 Half-Heusler compounds. Journal of Alloys and Compounds, 2019, 773, 1141-1145.	2.8	13
53	Synergetic effect of grain size reduction on electronic and thermal transport properties by selectively-suppressed minority carrier mobility and enhanced boundary scattering in Bi0.5Sb1.5Te3 alloys. Scripta Materialia, 2019, 160, 15-19.	2.6	17
54	Suppression of bipolar conduction via bandgap engineering for enhanced thermoelectric performance of p-type Bi0.4Sb1.6Te3 alloys. Journal of Alloys and Compounds, 2018, 741, 869-874.	2.8	27

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55	Electronic and Thermal Properties of Si-doped InSe Layered Chalcogenides. Journal of the Korean Physical Society, 2018, 72, 775-779.	0.3	11
56	Enhancing Thermoelectric Performances of Bismuth Antimony Telluride via Synergistic Combination of Multiscale Structuring and Band Alignment by FeTe ₂ Incorporation. ACS Applied Materials & Interfaces, 2018, 10, 3689-3698.	4.0	66
5 7	A graphene mesh as a hybrid electrode for foldable devices. Nanoscale, 2018, 10, 628-638.	2.8	13
58	Direct characterization of graphene doping state by <i>in situ</i> photoemission spectroscopy with Ar gas cluster ion beam sputtering. Physical Chemistry Chemical Physics, 2018, 20, 615-622.	1.3	7
59	Novel Flexible Transparent Conductive Films with Enhanced Chemical and Electromechanical Sustainability: TiO ₂ Nanosheet–Ag Nanowire Hybrid. ACS Applied Materials & Interfaces, 2018, 10, 2688-2700.	4.0	44
60	Fabrication of single-phase tungsten carbide laminae from multi-walled carbon nanotubes using high direct current pulse. International Journal of Nanotechnology, 2018, 15, 537.	0.1	0
61	CulnS ₂ /CdS-Heterostructured Nanotetrapods by Seeded Growth and Their Photovoltaic Properties. ACS Applied Nano Materials, 2018, 1, 2449-2454.	2.4	20
62	High thermoelectric performance of melt-spun CuxBi0.5Sb1.5Te3 by synergetic effect of carrier tuning and phonon engineering. Acta Materialia, 2018, 158, 289-296.	3.8	37
63	Effect of C and N Addition on Thermoelectric Properties of TiNiSn Half-Heusler Compounds. Materials, 2018, 11, 262.	1.3	5
64	Synthesis and Characterization of Core-Shell Silica-Phosphor Nanoparticles via Sol-Gel Process. Journal of Korean Powder Metallurgy Institute, 2018, 25, 12-18.	0.2	1
65	Novel transparent conductor with enhanced conductivity: hybrid of silver nanowires and dual-doped graphene. Applied Surface Science, 2017, 419, 63-69.	3.1	24
66	Strong enhancement of electrical conductivity in two-dimensional micrometer-sized RuO ₂ nanosheets for flexible transparent electrodes. Nanoscale, 2017, 9, 7104-7113.	2.8	22
67	Enhanced thermoelectric performance of reduced graphene oxide incorporated bismuth-antimony-telluride by lattice thermal conductivity reduction. Journal of Alloys and Compounds, 2017, 718, 342-348.	2.8	49
68	Microstructure Analysis and Thermoelectric Properties of Melt-Spun Bi-Sb-Te Compounds. Crystals, 2017, 7, 180.	1.0	8
69	Direct characterization of the energy level alignments and molecular components in an organic hetero-junction by integrated photoemission spectroscopy and reflection electron energy loss spectroscopy analysis. Nanotechnology, 2016, 27, 345704.	1.3	5
70	Enhanced Thermoelectric Performance of p-Type Bi-Sb-Te Alloys by Codoping with Ga and Ag. Journal of Electronic Materials, 2015, 44, 1531-1535.	1.0	19
71	Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. Science, 2015, 348, 109-114.	6.0	1,552
72	Doping effects on the thermoelectric properties of Cu-intercalated Bi2Te2.7Se0.3. Current Applied Physics, 2015, 15, 190-193.	1.1	23

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73	Modified graphite and graphene electrodes for high-performance lithium ion hybrid capacitors. Materials for Renewable and Sustainable Energy, 2014, 3, 1.	1.5	37
74	A metal–organic framework as a chemical guide to control hydrogen desorption pathways of ammonia borane. Nanoscale, 2014, 6, 6526-6530.	2.8	25
75	A bifunctional approach for the preparation of graphene and ionic liquid-based hybrid gels. Journal of Materials Chemistry A, 2013, 1, 43-48.	5.2	32
76	Cu–Bi–Se-based pavonite homologue: a promising thermoelectric material with low lattice thermal conductivity. Journal of Materials Chemistry A, 2013, 1, 9768.	5.2	13
77	Graphitic domain layered titania nanotube arrays for separation and shuttling of solar-driven electrons. Journal of Materials Chemistry A, 2013, 1, 203-207.	5.2	7
78	A Radically Configurable Six-State Compound. Science, 2013, 339, 429-433.	6.0	158
79	Electrochemically Controlled Nanopore and Crystal Structure Evolution in Zinc Oxide Nanorods. Journal of the Electrochemical Society, 2012, 159, A2143-A2147.	1.3	9
80	Nanomechanical properties of lithiated Si nanowires probed with atomic force microscopy. Journal Physics D: Applied Physics, 2012, 45, 275301.	1.3	10
81	Functionalized Graphene for High Performance Lithium Ion Capacitors. ChemSusChem, 2012, 5, 2328-2333.	3.6	115
82	A Truncated Manganese Spinel Cathode for Excellent Power and Lifetime in Lithium-Ion Batteries. Nano Letters, 2012, 12, 6358-6365.	4.5	272
83	Fermi energy level tuning for high performance dye sensitized solar cells using sp2 selective nitrogen-doped carbon nanotube channels. Physical Chemistry Chemical Physics, 2012, 14, 5255.	1.3	25
84	Silicon@porous nitrogen-doped carbon spheres through a bottom-up approach are highly robust lithium-ion battery anodes. RSC Advances, 2012, 2, 4311.	1.7	73
85	Nitrogen-Doped Multiwall Carbon Nanotubes for Lithium Storage with Extremely High Capacity. Nano Letters, 2012, 12, 2283-2288.	4.5	468
86	A Carbon Nanotubes-Silicon Nanoparticles Network for High Performance Lithium Rechargeable Battery Anodes. Journal of Electrochemical Science and Technology, 2012, 3, 116-122.	0.9	3
87	Nitrogen-Doped Graphene for High-Performance Ultracapacitors and the Importance of Nitrogen-Doped Sites at Basal Planes. Nano Letters, 2011, 11, 2472-2477.	4.5	1,547
88	Spectroscopic and Computational Insight into the Intermolecular Interactions between Zwitterâ€₹ype Ionic Liquids and Water Molecules. ChemPhysChem, 2010, 11, 1711-1717.	1.0	9
89	Selective synthesis of diameter- and interlayer-controlled carbon nitride nanotubes with hydrogen ensnaring nanopores. Physical Chemistry Chemical Physics, 2010, 12, 7461.	1.3	1
90	Fabrication of size-controlled Co nanoparticles via mediation of H-adatoms on pyridine-like nitrogen of carbon nitride nanotubes and their superior catalytic performance for hydrogen generation. Journal of Materials Chemistry, 2010, 20, 7276.	6.7	5

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91	Bimetallic catalysts selectively grown via N-doped carbon nanotubes for hydrogen generation. Journal of Materials Chemistry, 2010, 20, 6544.	6.7	12
92	Facile fabrication of networked patterns and their superior application to realize the virus immobilized networked pattern circuit. Chemical Communications, 2010, 46, 8609.	2.2	0
93	Ionicâ€Liquidâ€Assisted Sonochemical Synthesis of Carbonâ€Nanotubeâ€Based Nanohybrids: Control in the Structures and Interfacial Characteristics. Small, 2009, 5, 1754-1760.	5.2	69
94	Tunability of electronic band gaps from semiconducting to metallic states via tailoring Zn ions in MOFs with Co ions. Physical Chemistry Chemical Physics, 2009, 11, 628-631.	1.3	80
95	Charge polarization-dependent activity of catalyst nanoparticles on carbon nitride nanotubes for hydrogen generation. Journal of Materials Chemistry, 2009, 19, 4505.	6.7	18
96	The Nature of Graphite―and Pyridinelike Nitrogen Configurations in Carbon Nitride Nanotubes: Dependence on Diameter and Helicity. Small, 2008, 4, 437-441.	5.2	44
97	A Facile Way to Control the Number of Walls in Carbon Nanotubes through the Synthesis of Exposed ore/Shell Catalyst Nanoparticles. Angewandte Chemie - International Edition, 2008, 47, 9904-9907.	7.2	16
98	Influence of Additives Including Amine and Hydroxyl Groups on Aqueous Ammonia Absorbent for CO ₂ Capture. Journal of Physical Chemistry B, 2008, 112, 4323-4328.	1.2	77
99	Nitrogen-mediated fabrication of transition metal-carbon nanotube hybrid materials. Applied Physics Letters, 2007, 90, 013103.	1.5	47
100	Ni-dispersed fullerenes: Hydrogen storage and desorption properties. Applied Physics Letters, 2006, 88, 053111.	1.5	103
101	Interaction of a Transition Metal Atom with Intrinsic Defects in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 13941-13946.	1.2	63
102	Ni adsorption on Stone-Wales defect sites in single-wall carbon nanotubes. Journal of Chemical Physics, 2006, 125, 084705.	1.2	24
103	Ultrasonic assisted exfoliation for efficient production of RuO2 monolayer nanosheets. Inorganic Chemistry Frontiers, 0, , .	3.0	5
104	Characterization of Hall Factor with Seebeck Coefficient Measurement. ACS Applied Energy Materials, 0, , .	2.5	7