Jae-Pyoung Ahn

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8453471/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Easy Synthesis and Magnetic Properties of Iron Oxide Nanoparticles. Chemistry of Materials, 2004, 16, 2814-2818.	6.7	524
2	Long-term clinical study and multiscale analysis of in vivo biodegradation mechanism of Mg alloy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 716-721.	7.1	337
3	Superplastic Deformation of Defect-Free Au Nanowires via Coherent Twin Propagation. Nano Letters, 2011, 11, 3499-3502.	9.1	189
4	The growth of AA graphite on (111) diamond. Journal of Chemical Physics, 2008, 129, 234709.	3.0	188
5	Structure and mechanical properties of W incorporated diamond-like carbon films prepared by a hybrid ion beam deposition technique. Carbon, 2006, 44, 1826-1832.	10.3	161
6	TiO2 single-crystalline nanorod electrode for quasi-solid-state dye-sensitized solar cells. Applied Physics Letters, 2005, 87, 113113.	3.3	143
7	Se-Rich MoSe ₂ Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 6295-6304.	14.6	125
8	Improvement in hydrogen sorption kinetics of MgH2 with Nb hydride catalyst. Acta Materialia, 2007, 55, 5073-5079.	7.9	113
9	A room temperature Na/S battery using a β″ alumina solid electrolyte separator, tetraethylene glycol dimethyl ether electrolyte, and a S/C composite cathode. Journal of Power Sources, 2016, 301, 332-337.	7.8	106
10	Structure and mechanical properties of Ag-incorporated DLC films prepared by a hybrid ion beam deposition system. Thin Solid Films, 2007, 516, 248-251.	1.8	103
11	Activation of a Ni electrocatalyst through spontaneous transformation of nickel sulfide to nickel hydroxide in an oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 233, 130-135.	20.2	103
12	Enhanced plasticity in a bulk amorphous matrix composite: macroscopic and microscopic viewpoint studies. Acta Materialia, 2005, 53, 129-139.	7.9	102
13	A singular flexible cathode for room temperature sodium/sulfur battery. Journal of Power Sources, 2016, 307, 31-37.	7.8	102
14	Release of N2from the Carbon Nanotubes via High-Temperature Annealing. Journal of Physical Chemistry B, 2005, 109, 1683-1688.	2.6	95
15	Deformation-induced nanocrystallization and its influence on work hardening in a bulk amorphous matrix composite. Acta Materialia, 2004, 52, 1525-1533.	7.9	90
16	Origin of Size Dependency in Coherent-Twin-Propagation-Mediated Tensile Deformation of Noble Metal Nanowires. Nano Letters, 2013, 13, 5112-5116.	9.1	88
17	Helical Structure of Single-Crystalline ZnGa2O4Nanowires. Journal of the American Chemical Society, 2005, 127, 10802-10803.	13.7	87
18	Sodium Polysulfides during Charge/Discharge of the Room-Temperature Na/S Battery Using TEGDME Electrolyte. Journal of the Electrochemical Society, 2016, 163, A611-A616.	2.9	82

#	Article	IF	CITATIONS
19	Mechanochemical synthesis and characterization of TiB2 and VB2 nanopowders. Materials Letters, 2008, 62, 2461-2464.	2.6	63
20	Synthesis and surface modification of hydrophobic magnetite to processible magnetite@silica-propylamine. Journal of Magnetism and Magnetic Materials, 2005, 293, 177-181.	2.3	62
21	Oxidation of nanophase tin particles. Scripta Materialia, 1999, 11, 211-220.	0.5	61
22	Subcellular Neural Probes from Single-Crystal Gold Nanowires. ACS Nano, 2014, 8, 8182-8189.	14.6	61
23	Phase Evolution of Re _{1–<i>x</i>} Mo <i>_x</i> Se ₂ Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 11995-12005.	14.6	59
24	A new method for mapping the three-dimensional atomic distribution within nanoparticles by atom probe tomography (APT). Ultramicroscopy, 2018, 190, 30-38.	1.9	51
25	Synaptic devices based on two-dimensional layered single-crystal chromium thiophosphate (CrPS4). NPG Asia Materials, 2018, 10, 23-30.	7.9	48
26	Microstructural evolution of NbF5-doped MgH2 exhibiting fast hydrogen sorption kinetics. Journal of Power Sources, 2008, 178, 373-378.	7.8	46
27	Facile phase and composition tuned synthesis of tin chalcogenide nanocrystals. RSC Advances, 2013, 3, 10349.	3.6	44
28	Spinodally Decomposed PbSe-PbTe Nanoparticles for High-Performance Thermoelectrics: Enhanced Phonon Scattering and Unusual Transport Behavior. ACS Nano, 2016, 10, 7197-7207.	14.6	44
29	Revealing the factors determining the selectivity of guaiacol HDO reaction pathways using ZrP-supported Co and Ni catalysts. Journal of Catalysis, 2019, 377, 343-357.	6.2	43
30	Unusual stress behavior in W-incorporated hydrogenated amorphous carbon films. Applied Physics Letters, 2005, 86, 111902.	3.3	42
31	Degradation mechanism of room temperature Na/Ni3S2 cells using Ni3S2 electrodes prepared by mechanical alloying. Journal of Power Sources, 2013, 244, 764-770.	7.8	42
32	Catalytically Active Au Layers Grown on Pd Nanoparticles for Direct Synthesis of H ₂ O ₂ : Lattice Strain and Charge-Transfer Perspective Analyses. ACS Nano, 2019, 13, 4761-4770.	14.6	42
33	Intercalated complexes of 1T′-MoS ₂ nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 2334-2343.	10.3	41
34	Microstructure and gas-sensing properties of thick film sensor using nanophase SnO2 powder. Sensors and Actuators B: Chemical, 2004, 99, 18-24.	7.8	38
35	Facile conductive bridges formed between silicon nanoparticles inside hollow carbon nanofibers. Nanoscale, 2013, 5, 4790.	5.6	37
36	Synthesis and Magnetic Properties of Manganese-Doped GaP Nanowires. Journal of Physical Chemistry B, 2005, 109, 9311-9316.	2.6	36

#	Article	IF	CITATIONS
37	IrO ₂ –ZnO Hybrid Nanoparticles as Highly Efficient Trifunctional Electrocatalysts. Journal of Physical Chemistry C, 2017, 121, 14899-14906.	3.1	35
38	Formation of Zintl Ions and Their Configurational Change during Sodiation in Na–Sn Battery. Nano Letters, 2017, 17, 679-686.	9.1	32
39	Studies on Catalytic Activity of Hydrogen Peroxide Generation according to Au Shell Thickness of Pd/Au Nanocubes. ACS Applied Materials & Interfaces, 2018, 10, 38109-38116.	8.0	32
40	Two-dimensional MoS ₂ /Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. Nanoscale, 2019, 11, 14266-14275.	5.6	32
41	Magnetic properties, structure and shape-memory transitions in Ni-Mn-Ga thin films grown by ion-beam sputtering. IEEE Transactions on Magnetics, 2001, 37, 2141-2143.	2.1	31
42	Coordinatively Induced Length Control and Photoluminescence of W18O49Nanorods. Inorganic Chemistry, 2005, 44, 7171-7174.	4.0	31
43	A Cu-based amorphous alloy with a simultaneous improvement in its glass forming ability and plasticity. Metals and Materials International, 2007, 13, 21-24.	3.4	31
44	3D-networked carbon nanotube/diamond core-shell nanowires for enhanced electrochemical performance. NPG Asia Materials, 2014, 6, e115-e115.	7.9	31
45	Role of atomic-scale chemical heterogeneities in improving the plasticity of Cu-Zr-Ag bulk amorphous alloys. Acta Materialia, 2018, 157, 209-217.	7.9	31
46	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. Nature, 2022, 603, 631-636.	27.8	31
47	Deformation twinning of ultrahigh strength aluminum nanowire. Acta Materialia, 2018, 160, 14-21.	7.9	30
48	Tailored Palladium–Platinum Nanoconcave Cubes as High Performance Catalysts for the Direct Synthesis of Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2020, 12, 6328-6335.	8.0	30
49	Room-Temperature Ferromagnetic Ga1â^'xMnxAs (x ≤0.05) Nanowires: Dependence of Electronic Structures and Magnetic Properties on Mn Content. Chemistry of Materials, 2009, 21, 1137-1143.	6.7	29
50	Three-Dimensional Structure of Twinned and Zigzagged One-Dimensional Nanostructures Using Electron Tomography. Nano Letters, 2010, 10, 1682-1691.	9.1	28
51	Selective crack suppression during deformation in metal films on polymer substrates using electron beam irradiation. Nature Communications, 2019, 10, 4454.	12.8	26
52	Intercalation of cobaltocene into WS ₂ nanosheets for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 8101-8106.	10.3	26
53	Strain hardening of an amorphous matrix composite due to deformation- induced nanocrystallization during quasistatic compression. Applied Physics Letters, 2004, 84, 2781-2783.	3.3	25
54	The effect of electric current and surface oxidization on the growth of Sn whiskers. Applied Surface Science, 2010, 256, 7166-7174.	6.1	25

#	Article	IF	CITATIONS
55	Interfacial Reactions in the Li/Si diffusion couples: Origin of Anisotropic Lithiation of Crystalline Si in Li–Si batteries. Scientific Reports, 2017, 7, 14028.	3.3	25
56	Sloughing a Precursor Layer to Expose Active Stainless Steel Catalyst for Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 24499-24507.	8.0	25
57	Pattern-Selective Epitaxial Growth of Twin-Free Pd Nanowires from Supported Nanocrystal Seeds. ACS Nano, 2010, 4, 2919-2927.	14.6	24
58	Face-Centered-Cubic Lithium Crystals Formed in Mesopores of Carbon Nanofiber Electrodes. ACS Nano, 2013, 7, 5801-5807.	14.6	24
59	Effect of orthorhombic phase on hydrogen gas sensing property of thick-film sensors fabricated by nanophase tin dioxide. Sensors and Actuators B: Chemical, 2003, 94, 125-131.	7.8	23
60	Chemically Evolved Composite Lithium-Ion Conductors with Lithium Thiophosphates and Nickel Sulfides. ACS Energy Letters, 2017, 2, 1740-1745.	17.4	23
61	Three-dimensional evaluation of compositional and structural changes in cycled LiNi1/3Co1/3Mn1/3O2 by atom probe tomography. Journal of Power Sources, 2018, 379, 160-166.	7.8	23
62	Ultrafast Sodiation of Single-Crystalline Sn Anodes. ACS Applied Materials & Interfaces, 2018, 10, 560-568.	8.0	22
63	Effect of green density on subsequent densification and grain growth of nanophase SnO2 powder during isothermal sintering. Scripta Materialia, 1997, 8, 637-643.	0.5	21
64	Ultrahigh Tensile Strength Nanowires with a Ni/Ni–Au Multilayer Nanocrystalline Structure. Nano Letters, 2016, 16, 3500-3506.	9.1	21
65	Failure criterion of silver nanowire electrodes on a polymer substrate for highly flexible devices. Scientific Reports, 2017, 7, 45903.	3.3	21
66	Anisotropic alloying of Re _{1â^'x} Mo _x S ₂ nanosheets to boost the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 25131-25141.	10.3	21
67	High rate capabilities induced by multi-phasic nanodomains in iron-substituted calcium cobaltite electrodes. Journal of Materials Chemistry, 2009, 19, 1829.	6.7	20
68	Ga Ordering and Electrical Conductivity in Nanotwin and Superlattice-Structured Ga-Doped ZnO. Crystal Growth and Design, 2012, 12, 1167-1172.	3.0	20
69	High performance enzyme fuel cells using a genetically expressed FAD-dependent glucose dehydrogenase α-subunit of Burkholderia cepacia immobilized in a carbon nanotube electrode for low glucose conditions. Physical Chemistry Chemical Physics, 2013, 15, 9508.	2.8	20
70	Strain Mapping and Raman Spectroscopy of Bent GaP and GaAs Nanowires. ACS Omega, 2018, 3, 3129-3135.	3.5	20
71	Phase Controlled Growth of Cd ₃ As ₂ Nanowires and Their Negative Photoconductivity. Nano Letters, 2020, 20, 4939-4946.	9.1	20
72	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. CrystEngComm, 2019, 21, 1143-1149.	2.6	19

#	Article	IF	CITATIONS
73	Suppressing the Dark Current in Quantum Dot Infrared Photodetectors by Controlling Carrier Statistics. Advanced Optical Materials, 2022, 10, 2101611.	7.3	19
74	The Preparation of TiO2Nanoparticle Photocatalysts by a Flame Method and Their Photocatalytic Reactivity for the Degradation of 2-Propanol. Chemistry Letters, 2004, 33, 1562-1563.	1.3	18
75	Observation of partial reduction of manganese in the lithium rich layered oxides, 0.4Li ₂ MnO ₃ –0.6LiNi _{1/3} Co _{1/3} Mn _{1/3} O _{2 during the first charge. Physical Chemistry Chemical Physics, 2017, 19, 1268-1275.}	2¢/ssub>,	18
76	Diffusion kinetics governing the diffusivity and diffusion anisotropy of alloying anodes in Na-ion batteries. Nano Energy, 2019, 65, 104041.	16.0	18
77	ZrO[sub 2]-Modified LiMn[sub 2]O[sub 4] Thin-Film Cathodes Prepared by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2010, 157, A567.	2.9	17
78	Fabrication of Atom Probe Tomography Specimens from Nanoparticles Using a Fusible Bi–In–Sn Alloy as an Embedding Medium. Microscopy and Microanalysis, 2019, 25, 438-446.	0.4	17
79	Effect of compact structures on the phase transition, subsequent densification and microstructure evolution during sintering of ultrafine gamma alumina powder. Scripta Materialia, 1999, 11, 133-140.	0.5	16
80	Anisotropic growth of Pt on Pd nanocube promotes direct synthesis of hydrogen peroxide. Applied Surface Science, 2021, 562, 150031.	6.1	16
81	Origin of high Coulombic loss during sodiation in Na-Sn battery. Journal of Power Sources, 2017, 343, 513-519.	7.8	15
82	Bent Polytypic ZnSe and CdSe Nanowires Probed by Photoluminescence. Small, 2017, 13, 1603695.	10.0	15
83	Polymorphism of GeSbTe Superlattice Nanowires. Nano Letters, 2013, 13, 543-549.	9.1	14
84	Effects of Surface Oxide on the Nitridation Behavior of Aluminum Particles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 496-504.	2.2	14
85	Two-dimensional MoS ₂ –melamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 22571-22578.	10.3	14
86	Effect of compact density on phase transition kinetics from anatase phase to rutile phase during sintering of ultrafine titania powder compacts. Scripta Materialia, 1998, 10, 1087-1096.	0.5	13
87	High-strength Cu–Zr binary alloy with an ultrafine eutectic microstructure. Journal of Materials Research, 2008, 23, 1987-1994.	2.6	13
88	A new absorption band and visible absorption properties in Vâ€doped TiO ₂ nanopowder. Surface and Interface Analysis, 2012, 44, 1449-1452.	1.8	13
89	Microstructural and textural characterization in MgO thin film using HRTEM. Thin Solid Films, 2009, 517, 3995-3998.	1.8	12
90	<i>In Situ</i> Temperature-Dependent Transmission Electron Microscopy Studies of Pseudobinary <i>m</i> GeTe·Bi ₂ Te ₃ (<i>m</i> = 3–8) Nanowires and First-Principles Calculations. Nano Letters, 2015, 15, 3923-3930.	9.1	12

#	Article	IF	CITATIONS
91	Synthesis of Polytypic Gallium Phosphide and Gallium Arsenide Nanowires and Their Application as Photodetectors. ACS Omega, 2019, 4, 3098-3104.	3.5	12
92	Electrical resistivity and microstructural evolution of electrodeposited Co and Co-W nanowires. Materials Characterization, 2020, 166, 110451.	4.4	12
93	Facile Direct Seed-Mediated Growth of AuPt Bimetallic Shell on the Surface of Pd Nanocubes and Application for Direct H2O2 Synthesis. Catalysts, 2020, 10, 650.	3.5	12
94	Characterization of Pd and Pd@Au core-shell nanoparticles using atom probe tomography and field evaporation simulation. Journal of Alloys and Compounds, 2020, 831, 154721.	5.5	12
95	Nonvolatile Memory Effects of NiO Layers Embedded in Al[sub 2]O[sub 3] High-k Dielectrics Using Atomic Layer Deposition. Electrochemical and Solid-State Letters, 2010, 13, H209.	2.2	11
96	Gas-phase substitution synthesis of Cu1.8S and Cu2S superlattice nanowires from CdS nanowires. CrystEngComm, 2011, 13, 2091.	2.6	11
97	Ultrafast chemical lithiation of single crystalline silicon nanowires: in situ characterization and first principles modeling. RSC Advances, 2015, 5, 17438-17443.	3.6	11
98	Effect of carbon on the nitridation behavior of aluminum powder. Journal of Alloys and Compounds, 2016, 689, 218-224.	5.5	11
99	Isotropic Sodiation Behaviors of Ultrafast-Chargeable Tin Crystals. ACS Applied Materials & Interfaces, 2018, 10, 41389-41397.	8.0	10
100	Diffusion Along Dislocations Mitigates Selfâ€Limiting Na Diffusion in Crystalline Sn. Small, 2020, 16, e2004868.	10.0	10
101	Twin boundary sliding in single crystalline Cu and Al nanowires. Acta Materialia, 2020, 196, 69-77.	7.9	10
102	Thorn-like BN nanostructures. Solid State Communications, 2005, 133, 139-143.	1.9	9
103	Preparation of bimetal incorporated TiO2 photocatalytic nano-powders by flame method and their photocatalytic reactivity for the degradation of diluted 2-propanol. Current Applied Physics, 2007, 7, 118-123.	2.4	9
104	Electrical properties and microstructural characterization of single ZnO nanowire sensor manufactured by FIB. Thin Solid Films, 2009, 517, 4003-4006.	1.8	9
105	Structure of multi-wall carbon nanotubes: AA′ stacked graphene helices. Applied Physics Letters, 2013, 102, 161911.	3.3	9
106	Anomalous Stagewise Lithiation of Gold-Coated Silicon Nanowires: A Combined In Situ Characterization and First-Principles Study. ACS Applied Materials & Interfaces, 2015, 7, 16976-16983.	8.0	9
107	Aqueous-phase synthesis of Pd/TiO2/Fe3O4 hybrid nanostructures and their enhanced catalytic properties. Chemical Physics Letters, 2018, 712, 13-19.	2.6	9
108	Epitaxially aligned submillimeter-scale silver nanoplates grown by simple vapor transport. Nanoscale, 2019, 11, 17436-17443.	5.6	9

#	Article	IF	CITATIONS
109	Understanding filamentary growth and rupture by Ag ion migration through single-crystalline 2D layered CrPS4. NPG Asia Materials, 2020, 12, .	7.9	9
110	Self-Assembly of Pulverized Nanoparticles: An Approach to Realize Large-Capacity, Long-Lasting, and Ultra-Fast-Chargeable Na-Ion Batteries. Nano Letters, 2021, 21, 9044-9051.	9.1	9
111	Effect of compact structure on phase transformation kinetics from anatase phase to rutile phase and microstructure evolution during sintering of ultrafine titania powder compacts. Metals and Materials International, 1999, 5, 129-134.	0.2	8
112	Nanocomposite ta-C films prepared by the filtered vacuum arc process using nanosized Ni dots on a Si substrate. Chemical Physics Letters, 2003, 380, 774-779.	2.6	8
113	Improvement in Oxidation Resistance of Ferritic Stainless Steel by Carbon Ion Implantation. Electrochemical and Solid-State Letters, 2010, 13, B40.	2.2	8
114	Evaluation of energy loss at Sn anodes based on phase transition behaviors and formation of electrically resistive phases of Na–Sn batteries. Journal of Materials Chemistry A, 2018, 6, 9428-9436.	10.3	8
115	Real-time effect of electron beam on MoS ₂ field-effect transistors. Nanotechnology, 2020, 31, 455202.	2.6	8
116	Crack Healing Mechanism by Application of Stack Pressure to the Carbon-Based Composite Anode of an All-Solid-State Battery. ACS Applied Energy Materials, 2022, 5, 5227-5235.	5.1	8
117	Lithiation Pathway Mechanism of Si-C Composite Anode Revealed by the Role of Nanopore using <i>In Situ</i> Lithiation. ACS Energy Letters, 2022, 7, 2469-2476.	17.4	8
118	Synthesis and liquid phase sintering of TiN/TiB2/Fe–Cr–Ni nanocomposite powder. Journal of Alloys and Compounds, 2006, 422, 62-66.	5.5	7
119	Partitioning of the organic layers for the fabrication of high efficiency organic photovoltaic devices. Organic Electronics, 2009, 10, 1091-1096.	2.6	7
120	Focused Ion Beam-Based Specimen Preparation for Atom Probe Tomography. Applied Microscopy, 2016, 46, 14-19.	1.4	7
121	Growth of Nanostructured Polycrystalline Cerium Oxide Through a Solvothermal Precipitation Using Near-Supercritical Fluids. Journal of Nanoscience and Nanotechnology, 2010, 10, 130-134.	0.9	6
122	Comparison of Nonvolatile Memory Effects in Ni-Based Layered and Dotted Nanostructures Prepared through Atomic Layer Deposition. Electrochemical and Solid-State Letters, 2011, 14, J41.	2.2	6
123	Nitridation-assisted Al infiltration for fabricating Al composites. Journal of Materials Science, 2017, 52, 4333-4344.	3.7	6
124	Anisotropic Swelling Governed by Orientation-Dependent Interfacial Na Diffusion in Single-Crystalline Sb. Chemistry of Materials, 2019, 31, 1696-1703.	6.7	6
125	Effect of Convection Gas on the Synthesis of Nanophase Tin Oxides During a Gas Condensation Method. Metals and Materials International, 1997, 3, 188-192.	0.2	5
126	Monte Carlo Simulation of Phase Separation Behavior in a Cu-Co Alloy Nanoparticle. Journal of Materials Research, 2002, 17, 925-928.	2.6	5

#	Article	IF	CITATIONS
127	Three-dimensionally kinked high-conducting CoGe nanowire growth induced by rotational twinning. Journal of Materials Chemistry C, 2013, 1, 6259.	5.5	5
128	Electrical resistivity evolution in electrodeposited Ru and Ru-Co nanowires. Journal of Materials Science and Technology, 2022, 105, 17-25.	10.7	5
129	Microstructural analysis of oxide layer formation in ferritic stainless steel interconnects. Materials at High Temperatures, 2011, 28, 285-289.	1.0	4
130	The Effects of Nitrogen Bonding on Hardness of AlN/CrN Multilayer Hard Coatings. Journal of Nanoscience and Nanotechnology, 2012, 12, 1476-1479.	0.9	4
131	Thermally stable and low-resistance W/Ti/Au contacts to n-type GaN. Journal of Materials Science: Materials in Electronics, 2009, 20, 9-13.	2.2	3
132	Electrical characteristics of In/ITO p-type ohmic contacts for high-performance GaN-based light-emitting diodes. Materials Science in Semiconductor Processing, 2010, 13, 272-275.	4.0	3
133	Deformation criterion for face-centered-cubic metal nanowires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 431-437.	5.6	3
134	Direct-Contact Microelectrical Measurement of the Electrical Resistivity of a Solid Electrolyte Interface. Nano Letters, 2019, 19, 3692-3698.	9.1	3
135	Facile Aqueous–Phase Synthesis of Pd–FePt Core–Shell Nanoparticles for Methanol Oxidation Reaction. Catalysts, 2021, 11, 130.	3.5	3
136	Structural Stability During Charge-Discharge Cycles in Zr-doped LiCoO ₂ Powders. Journal of the Korean Ceramic Society, 2008, 45, 167-171.	2.3	3
137	Effects of Pt Junction on Electrical Transport of Individual ZnO Nanorod Device Fabricated by Focused Ion Beam. Journal of Nanoscience and Nanotechnology, 2012, 12, 1466-1470.	0.9	2
138	Development of residual strains and their relaxation processes in atomically thin layers of core-shell structured nanoparticles. Materials Characterization, 2021, 175, 111064.	4.4	2
139	Tensile Test of an Al Nanowire using In-situ Transmission Electron Microscopy and its Dynamic Deformation Behavior. Journal of Korean Institute of Metals and Materials, 2016, 54, 386-389.	1.0	2
140	Advanced Methodologies for Manipulating Nanoscale Features in Focused Ion Beam. Applied Microscopy, 2015, 45, 208-213.	1.4	2
141	Methods to evaluate the twin formation energy: comparative studies of the atomic simulations and in-situ TEM tensile tests. Applied Microscopy, 2020, 50, 19.	1.4	2
142	Three-Dimensional Structure of Helical and Zigzagged Nanowires Using Electron Tomography. Materials Research Society Symposia Proceedings, 2008, 1144, 1.	0.1	1
143	IN-SITU TEM INVESTIGATION ON NUCLEATION AND GROWTH BEHAVIOR OF P-DOPED SI THIN FILMS. Modern Physics Letters B, 2009, 23, 3747-3751.	1.9	1
144	Effects of Magnesium Catalyst on the Nitridation of Aluminum Melt in the Synthesis of Aluminum Nitride Powder. Applied Microscopy, 2014, 44, 79-82.	1.4	1

#	Article	IF	CITATIONS
145	Magnetic properties of Fe75Si15Al10 crystalline powders and domain structural observations using Lorentz transmission electron microscopy. Journal of Applied Physics, 2008, 103, 07E719.	2.5	0
146	Electrical Transport Phenomena of Single ZnO Nanowire Device Directly Measured Using Nano Manipulator. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
147	Hardness and Nitrogen Bonding Structure of AlxTi1â^'xN/CrN Multilayer Hard Coating. Journal of Nanoscience and Nanotechnology, 2012, 12, 1581-1584.	0.9	Ο
148	Effect of magnesium on nitridation and infiltration of aluminum powder. Metals and Materials International, 2016, 22, 557-561.	3.4	0
149	Elucidating in-Situ Lithiation Pathway of Si-C Composite Anode in Lithium Ion Battery. ECS Meeting Abstracts, 2022, MA2022-01, 2251-2251.	0.0	0