

# Jin-Sang Kim

## List of Publications by Year in descending order

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121  
papers

2,870  
citations

201674

27  
h-index

206112

48  
g-index

122  
all docs

122  
docs citations

122  
times ranked

4239  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance compliant thermoelectric generators with magnetically self-assembled soft heat conductors for self-powered wearable electronics. <i>Nature Communications</i> , 2020, 11, 5948.	12.8	169
2	Wafer-scale growth of MoS <sub>2</sub> thin films by atomic layer deposition. <i>Nanoscale</i> , 2016, 8, 10792-10798.	5.6	139
3	High-performance shape-engineerable thermoelectric painting. <i>Nature Communications</i> , 2016, 7, 13403.	12.8	122
4	Wearable solar thermoelectric generator driven by unprecedentedly high temperature difference. <i>Nano Energy</i> , 2017, 40, 663-672.	16.0	119
5	Chemiresistive Electronic Nose toward Detection of Biomarkers in Exhaled Breath. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20969-20976.	8.0	113
6	Self-activated ultrahigh chemosensitivity of oxide thin film nanostructures for transparent sensors. <i>Scientific Reports</i> , 2012, 2, 588.	3.3	110
7	Extremely Sensitive and Selective NO Probe Based on Villi-like WO <sub>3</sub> Nanostructures for Application to Exhaled Breath Analyzers. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10591-10596.	8.0	96
8	Vertically Ordered Hematite Nanotube Array as an Ultrasensitive and Rapid Response Acetone Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14779-14784.	8.0	84
9	Fabrication of high-performance p-type thin film transistors using atomic-layer-deposited SnO films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3139-3145.	5.5	81
10	Synthesis of SnS Thin Films by Atomic Layer Deposition at Low Temperatures. <i>Chemistry of Materials</i> , 2017, 29, 8100-8110.	6.7	68
11	Precision Interface Engineering of an Atomic Layer in Bulk Bi <sub>2</sub> Te <sub>3</sub> Alloys for High Thermoelectric Performance. <i>ACS Nano</i> , 2019, 13, 7146-7154.	14.6	66
12	Highly sensitive CO sensors based on cross-linked TiO <sub>2</sub> hollow hemispheres. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 116-121.	7.8	64
13	Free-electron creation at the 60° twin boundary in Bi <sub>2</sub> Te <sub>3</sub> . <i>Nature Communications</i> , 2016, 7, 12449.	12.8	59
14	Fabrication of Bismuth Telluride-Based Alloy Thin Film Thermoelectric Devices Grown by Metal Organic Chemical Vapor Deposition. <i>Journal of Electronic Materials</i> , 2009, 38, 920-924.	2.2	56
15	All villi-like metal oxide nanostructures-based chemiresistive electronic nose for an exhaled breath analyzer. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 295-302.	7.8	51
16	Wear and dynamic properties of piezoelectric ultrasonic motor with frictional materials coated stator. <i>Materials Chemistry and Physics</i> , 2005, 90, 391-395.	4.0	49
17	Non-Volatile Control of 2DEG Conductivity at Oxide Interfaces. <i>Advanced Materials</i> , 2013, 25, 4612-4617.	21.0	47
18	Vertically ordered SnO <sub>2</sub> nanobamboos for substantially improved detection of volatile reducing gases. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17939-17945.	10.3	40

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19	High-temperature thermoelectric properties of nanostructured Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> thin films. Applied Physics Letters, 2011, 98, .	3.3	38
20	Laser-irradiated inclined metal nanocolumns for selective, scalable, and room-temperature synthesis of plasmonic isotropic nanospheres. Journal of Materials Chemistry C, 2018, 6, 6038-6045.	5.5	37
21	Two-dimensional growth of ZnO epitaxial films on c-Al <sub>2</sub> O <sub>3</sub> (0001) substrates with optimized growth temperature and low-temperature buffer layer by plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2005, 274, 418-424.	1.5	35
22	SnO <sub>2</sub> thin films grown by atomic layer deposition using a novel Sn precursor. Applied Surface Science, 2014, 320, 188-194.	6.1	35
23	The Effect of Grain Size and Density on the Thermoelectric Properties of Bi <sub>2</sub> Te <sub>3</sub> -PbTe Compounds. Journal of Electronic Materials, 2013, 42, 3390-3396.	2.2	34
24	Growth and thermoelectric properties of Bi <sub>2</sub> Te <sub>3</sub> films deposited by modified MOCVD. Journal of Crystal Growth, 2012, 346, 17-21.	1.5	31
25	Downsizing gas sensors based on semiconducting metal oxide: Effects of electrodes on gas sensing properties. Sensors and Actuators B: Chemical, 2017, 248, 949-956.	7.8	31
26	Utilization of both-side metal decoration in close-packed SnO <sub>2</sub> nanodome arrays for ultrasensitive gas sensing. Sensors and Actuators B: Chemical, 2015, 213, 314-321.	7.8	30
27	Low-temperature wafer-scale synthesis of two-dimensional SnS <sub>2</sub> . Nanoscale, 2018, 10, 17712-17721.	5.6	30
28	Glancing angle deposited WO <sub>3</sub> nanostructures for enhanced sensitivity and selectivity to NO <sub>2</sub> in gas mixture. Sensors and Actuators B: Chemical, 2016, 229, 92-99.	7.8	28
29	Design and Experimental Investigation of Thermoelectric Generators for Wearable Applications. Advanced Materials Technologies, 2017, 2, 1600292.	5.8	28
30	MOCVD of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> on GaAs Substrates for Thin-Film Thermoelectric Applications. Journal of Nanoscience and Nanotechnology, 2006, 6, 3325-3328.	0.9	26
31	Effect of spark plasma sintering conditions on the thermoelectric properties of (Bi <sub>0.25</sub> Sb <sub>0.75</sub> ) <sub>2</sub> Te <sub>3</sub> alloys. Journal of Alloys and Compounds, 2016, 678, 396-402.	5.5	25
32	Highly Ordered TiO <sub>2</sub> Nanotubes on Patterned Substrates: Synthesis-in-Place for Ultrasensitive Chemiresistors. Journal of Physical Chemistry C, 2013, 117, 17824-17831.	3.1	24
33	Nanostructured Inorganic Chalcogenide-Carbon Nanotube Yarn having a High Thermoelectric Power Factor at Low Temperature. ACS Nano, 2021, 15, 13118-13128.	14.6	24
34	Enhancement of Mechanical Hardness in SnO <sub>2</sub> N <sub>2</sub> with a Dense High-Pressure Cubic Phase of SnO <sub>2</sub> . Chemistry of Materials, 2016, 28, 7051-7057.	6.7	23
35	Versatile approaches to tune a nanocolumnar structure for optimized electrical properties of In <sub>2</sub> O <sub>3</sub> based gas sensor. Sensors and Actuators B: Chemical, 2017, 248, 894-901.	7.8	23
36	Impurity-free, mechanical doping for the reproducible fabrication of the reliable n-type Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectric alloys. Acta Materialia, 2018, 150, 153-160.	7.9	23

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37	The effect of ZnO homo-buffer layer on ZnO thin films grown on c-Al <sub>2</sub> O <sub>3</sub> (0001) by plasma assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2004, 267, 85-91.	1.5	22
38	Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23793-23800.	8.0	22
39	Impact of parasitic thermal effects on thermoelectric property measurements by Harman method. <i>Review of Scientific Instruments</i> , 2014, 85, 045108.	1.3	21
40	Control of the initial growth in atomic layer deposition of Pt films by surface pretreatment. <i>Nanotechnology</i> , 2015, 26, 304003.	2.6	21
41	Wafer-Scale, Conformal, and Low-Temperature Synthesis of Layered Tin Disulfides for Emerging Nonplanar and Flexible Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2679-2686.	8.0	20
42	Hardening of Bi-Te based alloys by dispersing B <sub>4</sub> C nanoparticles. <i>Acta Materialia</i> , 2015, 97, 68-74.	7.9	19
43	Harman Measurements for Thermoelectric Materials and Modules under Non-Adiabatic Conditions. <i>Scientific Reports</i> , 2016, 6, 39131.	3.3	19
44	Interface Engineering for Extremely Large Grains in Explosively Crystallized TiO <sub>2</sub> Films Grown by Low-Temperature Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2017, 29, 2046-2054.	6.7	19
45	Sn doping in thermoelectric Bi <sub>2</sub> Te <sub>3</sub> films by metal-organic chemical vapor deposition. <i>Applied Surface Science</i> , 2015, 353, 232-237.	6.1	18
46	Metal organic vapor phase epitaxy of BiSbTe <sub>3</sub> films on (001) GaAs vicinal substrates. <i>Journal of Applied Physics</i> , 2006, 100, 123501.	2.5	17
47	Deposition of Nanocrystalline Bi <sub>2</sub> Te <sub>3</sub> Films Using a Modified MOCVD System. <i>Journal of Electronic Materials</i> , 2011, 40, 635-640.	2.2	17
48	Thermoelectric Properties of Indium-Selenium Nanocomposites Prepared by Mechanical Alloying and Spark Plasma Sintering. <i>Journal of Electronic Materials</i> , 2012, 41, 1354-1359.	2.2	17
49	Self-doped nanocolumnar vanadium oxides thin films for highly selective NO <sub>2</sub> gas sensing at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 40-47.	7.8	17
50	Atomic layer deposition of SnO <sub>2</sub> thin films using tetraethyltin and H <sub>2</sub> O <sub>2</sub> . <i>Ceramics International</i> , 2019, 45, 20600-20605.	4.8	17
51	Operation of Wearable Thermoelectric Generators Using Dual Sources of Heat and Light. <i>Advanced Science</i> , 2022, 9, e2104915.	11.2	17
52	Effect of Composition on Thermoelectric Properties in PbTe-Bi <sub>2</sub> Te <sub>3</sub> Composites. <i>Journal of Electronic Materials</i> , 2011, 40, 1010-1014.	2.2	16
53	Material characteristics of metalorganic chemical vapor deposition of Bi <sub>2</sub> Te <sub>3</sub> films on GaAs substrates. <i>Journal of Crystal Growth</i> , 2006, 290, 441-445.	1.5	14
54	Size Effects in the CO Sensing Properties of Nanostructured TiO <sub>2</sub> Thin Films Fabricated by Colloidal Templating. <i>Electronic Materials Letters</i> , 2010, 6, 31-34.	2.2	14

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55	Mechanism of the Sensitivity Enhancement in TiO <sub>2</sub> Hollow-Hemisphere Gas Sensors. <i>Electronic Materials Letters</i> , 2010, 6, 135-139.	2.2	14
56	Tunable conductivity at LaAlO <sub>3</sub> /Sr <sub>x</sub> Ca <sub>1-x</sub> TiO <sub>3</sub> (0 ≤ x ≤ 1) heterointerfaces. <i>Applied Physics Letters</i> , 2013, 102, 012903.	3.3	14
57	Enhancement of Initial Growth of ZnO Films on Layer-Structured Bi <sub>2</sub> Te <sub>3</sub> by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2014, 26, 6448-6453.	6.7	14
58	Effect of Heat Treatment on the Thermoelectric Properties of Bismuth-Antimony-Telluride Prepared by Mechanical Deformation and Mechanical Alloying. <i>Journal of Electronic Materials</i> , 2014, 43, 2255-2261.	2.2	14
59	Improvement of thermoelectric properties of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> films grown on graphene substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700029.	2.4	14
60	Metalorganic Chemical Vapor Deposition of CdTe(133) Epilayers on Si(211) Substrates. <i>Journal of Electronic Materials</i> , 2010, 39, 863-867.	2.2	13
61	Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>3</sub> /PbSe <sub>0.5</sub> Te <sub>0.5</sub> Segmented Thermoelectric Material. <i>Journal of Electronic Materials</i> , 2014, 43, 414-418.	2.2	13
62	Strain-assisted, low-temperature synthesis of high-performance thermoelectric materials. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3529.	2.8	13
63	Electric-field-induced Shift in the Threshold Voltage in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Scientific Reports</i> , 2015, 5, 8023.	3.3	13
64	Effect of Trivalent Bi Doping on the Seebeck Coefficient and Electrical Resistivity of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> . <i>Journal of Electronic Materials</i> , 2015, 44, 3621-3626.	2.2	12
65	Large linear magnetoresistance in heavily-doped Nb:SrTiO <sub>3</sub> epitaxial thin films. <i>Scientific Reports</i> , 2016, 6, 34295.	3.3	12
66	Comprehensive study on critical role of surface oxygen vacancies for 2DEG formation and annihilation in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterointerfaces. <i>Electronic Materials Letters</i> , 2016, 12, 243-250.	2.2	12
67	Thickness-Dependent Electrocaloric Effect in Pb <sub>0.9</sub> La <sub>0.1</sub> Zr <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> Films Grown by Sol-Gel Process. <i>Journal of Electronic Materials</i> , 2016, 45, 1057-1064.	2.2	12
68	Texture-induced reduction in electrical resistivity of p-type (Bi,Sb) <sub>2</sub> Te <sub>3</sub> by a hot extrusion. <i>Journal of Alloys and Compounds</i> , 2018, 764, 261-266.	5.5	12
69	Dynamic temperature response of electrocaloric multilayer capacitors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	11
70	Correction of the Electrical and Thermal Extrinsic Effects in Thermoelectric Measurements by the Harman Method. <i>Scientific Reports</i> , 2016, 6, 26507.	3.3	11
71	Atomic layer deposition of Ta-doped SnO <sub>2</sub> films with enhanced dopant distribution for thermally stable capacitor electrode applications. <i>Applied Surface Science</i> , 2019, 497, 143804.	6.1	11
72	Combined hot extrusion and spark plasma sintering method for producing highly textured thermoelectric Bi <sub>2</sub> Te <sub>3</sub> alloys. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3042-3048.	5.7	11

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73	Enhanced thermal stability of Bi <sub>2</sub> Te <sub>3</sub> -based alloys via interface engineering with atomic layer deposition. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3592-3599.	5.7	11
74	Structural properties of ZnSe layers grown on (001) GaAs substrates tilted toward [110] and [010]. <i>Journal of Applied Physics</i> , 1997, 81, 6107-6111.	2.5	10
75	Giant Electroresistive Ferroelectric Diode on 2DEG. <i>Scientific Reports</i> , 2015, 5, 10548.	3.3	10
76	Carrier Modulation in Bi <sub>2</sub> Te <sub>3</sub> -Based Alloys via Interfacial Doping with Atomic Layer Deposition. <i>Coatings</i> , 2020, 10, 572.	2.6	10
77	Control of hillock formation during MOVPE growth of HgCdTe by suppressing the pre-reaction of the Cd precursor with Hg. <i>Journal of Crystal Growth</i> , 2002, 236, 119-124.	1.5	9
78	Thermopower Enhancement of Bi <sub>2</sub> Te <sub>3</sub> Films by Doping I Ions. <i>Journal of Electronic Materials</i> , 2014, 43, 2000-2005.	2.2	9
79	Orientation-Controlled Growth of Pt Films on SrTiO <sub>3</sub> (001) by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015, 27, 6779-6783.	6.7	9
80	Substrate Surface Modification for Enlarging Two-Dimensional SnS Grains at Low Temperatures. <i>Chemistry of Materials</i> , 2020, 32, 9026-9033.	6.7	9
81	3D architectures of single-crystalline complex oxides. <i>Materials Horizons</i> , 2020, 7, 1552-1557.	12.2	9
82	Large-scale Synthesis of Vertically Aligned ZnO Hexagonal Nanotube-Rod Hybrids Using a Two-Step Growth Method. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3500-3503.	3.8	8
83	Capacitance-voltage analysis of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Applied Physics Letters</i> , 2013, 102, 112906.	3.3	8
84	Effect of Sn Doping on the Thermoelectric Properties of n-type Bi <sub>2</sub> (Te,Se) <sub>3</sub> Alloys. <i>Journal of Electronic Materials</i> , 2015, 44, 1926-1930.	2.2	8
85	Ammonium sulfide treatment of HgCdTe substrate and its effects on electrical properties of ZnS/HgCdTe heterostructure. <i>Thin Solid Films</i> , 2005, 483, 407-410.	1.8	7
86	The Effect of Annealing in Controlled Vapor Pressure on the Thermoelectric Properties of RF-Sputtered Bi <sub>2</sub> Te <sub>3</sub> Film. <i>Journal of Electronic Materials</i> , 2012, 41, 1519-1523.	2.2	7
87	Synthesis of self-ordered Sb <sub>2</sub> Te <sub>2</sub> films with atomically aligned Te layers and the effect of phonon scattering modulation. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7043.	5.5	7
88	High mobility, large linear magnetoresistance, and quantum transport phenomena in Bi <sub>2</sub> Te <sub>3</sub> films grown by metallo-organic chemical vapor deposition (MOCVD). <i>Nanoscale</i> , 2015, 7, 17359-17365.	5.6	7
89	Symmetry-dependent interfacial reconstruction to compensate polar discontinuity at perovskite oxide interfaces (LaAlO <sub>3</sub> /SrTiO <sub>3</sub> and LaAlO <sub>3</sub> /CaTiO <sub>3</sub> ). <i>Applied Physics Letters</i> , 2015, 106, .	3.3	7
90	Growth Enhancement and Nitrogen Loss in ZnO <sub>x</sub> N <sub>y</sub> Low-Temperature Atomic Layer Deposition with NH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2015, 119, 23470-23477.	3.1	7

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91	Mapping thermoelectric properties of polycrystalline n-type Bi <sub>2</sub> Te <sub>3-x</sub> Se <sub>x</sub> alloys by composition and doping level. <i>Journal of Alloys and Compounds</i> , 2020, 844, 155828.	5.5	7
92	Low-energy ion beam treatment of $\hat{\pm}$ -Al <sub>2</sub> O <sub>3</sub> (0001) and improvement of photoluminescence of ZnO thin films. <i>Metals and Materials International</i> , 2004, 10, 351-355.	3.4	6
93	Composition-Dependent Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Doped with In <sub>4</sub> Se <sub>3</sub> . <i>Journal of Electronic Materials</i> , 2013, 42, 2178-2183.	2.2	6
94	A two-step synthesis process of thermoelectric alloys for the separate control of carrier density and mobility. <i>Journal of Alloys and Compounds</i> , 2017, 727, 191-195.	5.5	6
95	A novel class of oxynitrides stabilized by nitrogen dimer formation. <i>Scientific Reports</i> , 2018, 8, 14471.	3.3	6
96	Domain engineering of epitaxial (001) Bi <sub>2</sub> Te <sub>3</sub> thin films by miscut GaAs substrate. <i>Acta Materialia</i> , 2020, 197, 309-315.	7.9	6
97	The role of surface adsorbates on electrical properties of MOVPE grown HgCdTe onto (001) GaAs substrates. <i>Solid-State Electronics</i> , 2004, 48, 1623-1627.	1.4	5
98	Nonvolatile Resistance Switching on Two-Dimensional Electron Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17785-17791.	8.0	5
99	Thermal stability of 2DEG at amorphous LaAlO <sub>3</sub> /crystalline SrTiO <sub>3</sub> heterointerfaces. <i>Nano Convergence</i> , 2016, 3, 7.	12.1	5
100	Suppression of bulk conductivity and large phase relaxation length in topological insulator Bi <sub>2</sub> - $\hat{\pm}$ Sn $\hat{\pm}$ Te <sub>3</sub> epitaxial thin films grown by Metal-Organic Chemical Vapor Deposition (MOCVD). <i>Journal of Alloys and Compounds</i> , 2017, 723, 942-947.	5.5	5
101	Surface acoustic wave sensors to detect volatile gases by measuring output phase shift. <i>Journal of Electroceramics</i> , 2006, 17, 1013-1017.	2.0	4
102	Constructions and characteristics of a tiny piezoelectric linear motor using radial mode vibrations. <i>Journal of Electroceramics</i> , 2006, 17, 603-608.	2.0	4
103	Thermoelectric Properties of Highly Deformed and Subsequently Annealed p-Type (Bi <sub>0.25</sub> Sb <sub>0.75</sub> ) <sub>2</sub> Te <sub>3</sub> Alloys. <i>Journal of Electronic Materials</i> , 2014, 43, 1726-1732.	2.2	4
104	A Ru $\hat{\pm}$ Pt alloy electrode to suppress leakage currents of dynamic random-access memory capacitors. <i>Nanotechnology</i> , 2018, 29, 455202.	2.6	4
105	Characteristics of SWIR Diodes of HgCdTe/CdTe/GaAs Grown by Metal Organic Vapor Phase Epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 1089-1092.	1.5	3
106	Structural Characteristics of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> films on (001) GaAs Substrates grown by MOCVD. , 2006, , .		3
107	Epitaxial growth of CdTe films on GaAs-buffered (001) Si substrates by metal organic chemical vapor deposition. <i>Materials Letters</i> , 2012, 87, 139-141.	2.6	3
108	Three-Dimensional Bi <sub>2</sub> Te <sub>3</sub> Nanocrystallites Embedded in 2D Bi <sub>2</sub> Te <sub>3</sub> Films Grown by MOCVD. <i>Journal of Electronic Materials</i> , 2012, 41, 1237-1241.	2.2	3

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109	Thermoelectric Properties of Sn-Doped Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> Thin Films. Journal of Electronic Materials, 2015, 44, 1573-1578.	2.2	3
110	MOCVD Growth of Thermoelectric BiSbTe <sub>3</sub> Films on Surface-Treated Sapphire Substrates. Journal of the Korean Physical Society, 2009, 54, 1589-1593.	0.7	3
111	A Structural Investigation of CdTe(001) Thin Films on GaAs/Si(001) Substrates by High-Resolution Electron Microscopy. Journal of Electronic Materials, 2012, 41, 2795-2798.	2.2	2
112	Hot rolling process for texture development and grain refinement of n-type Bi <sub>2</sub> Te <sub>3</sub> alloys. Materials Letters, 2021, 301, 130278.	2.6	2
113	Oxidation of thermoelectric Bi <sub>2</sub> Te <sub>3</sub> -based alloys by atomic layer deposition of Ru metal. Materials Letters, 2022, 320, 132321.	2.6	2
114	Growth of high quality of ZnSe epilayers on (001) vicinally oriented GaAs substrate by molecular beam epitaxy. Materials Science in Semiconductor Processing, 2000, 3, 201-205.	4.0	1
115	The effect of ammonium sulfide treatment on interfacial properties in ZnS/HgCdTe heterostructure. Journal of Electroceramics, 2006, 17, 1041-1045.	2.0	1
116	The effect of substrate on the thermoelectric properties of rf sputtered Bi <sub>2</sub> Te <sub>3</sub> film. AIP Conference Proceedings, 2012, , .	0.4	1
117	IONIC LIQUID CATALYZED ELECTROLYTE FOR ELECTROCHEMICAL POLYANILINE SUPERCAPACITORS. , 2013, , .		0
118	Nanomaterials for Thermoelectrics. Journal of Nanomaterials, 2014, 2014, 1-1.	2.7	0
119	Impedance-based interpretations in 2-dimensional electron gas conduction formed in the LaAlO <sub>3</sub> /Sr <sub>x</sub> Ca <sub>1-x</sub> TiO <sub>3</sub> /SrTiO <sub>3</sub> system. Journal of Physics and Chemistry of Solids, 2016, 93, 131-136.	4.0	0
120	Growth of Large Scale CdTe(400) Thin Films by MOCVD. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2010, 23, 343-346.	0.0	0
121	Growth of Nano Structure Bi <sub>2</sub> Te <sub>3</sub> Films using Modified MOCVD Technique. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2010, 23, 497-501.	0.0	0