Donghwan Kim

List of Publications by Year
in descending order

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147	2,850	212478	232693
papers	citations	28 h-index	48 g-index

154	154	154	5371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-temperature Bi2Te3 thermoelectric generator fabricated using Cu nanoparticle paste bonding. Journal of Alloys and Compounds, 2022, 896, 163060.	2.8	3
2	Potential of NiOx/Nickel Silicide/n+ Poly-Si Contact for Perovskite/TOPCon Tandem Solar Cells. Energies, 2022, 15, 870.	1.6	5
3	Utilization of Multifunctional Environmentâ€Friendly Organic Dopants Inspired from Nature for Carbon Nanotubeâ€Based Planar Heterojunction Silicon Solar Cells. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	2
4	Experimental verification of semi-metallic band structure in PtSe2 via thermoelectric power measurements. Applied Physics Letters, 2022, 120, 043103.	1.5	2
5	Perovskite/Silicon Tandem Solar Cells with a V_{oc} of 1784 mV Based on an Industrially Feasible 25 cm² TOPCon Silicon Cell. ACS Applied Energy Materials, 2022, 5, 5449-5456.	2.5	14
6	Effective Recycling Method for Silicon Photovoltaic Modules With Electrical Sacrificial Layer. IEEE Journal of Photovoltaics, 2022, 12, 999-1004.	1.5	1
7	Ambient Airâ€Processed Wideâ€Bandgap Perovskite Solar Cells with Wellâ€Controlled Film Morphology for Fourâ€Terminal Tandem Application. Solar Rrl, 2022, 6, .	3.1	4
8	19.2%-Efficient Multicrystalline Silicon Solar Cells via Additive-Free Mechanical Grinding Surface Pretreatment for Diamond-Wire-Sawn Wafers. IEEE Journal of Photovoltaics, 2021, 11, 36-42.	1.5	4
9	Effective Surface Texturing of Diamond-Wire-Sawn Multicrystalline Silicon Wafers Via Crystallization of the Native Surface Amorphous Layer. IEEE Journal of Photovoltaics, 2021, 11, 43-49.	1.5	2
10	Monolithic Perovskite-Carrier Selective Contact Silicon Tandem Solar Cells Using Molybdenum Oxide as a Hole Selective Layer. Energies, 2021, 14, 3108.	1.6	7
11	An Applicable Predictive Maintenance Framework for the Absence of Run-to-Failure Data. Applied Sciences (Switzerland), 2021, 11, 5180.	1.3	13
12	Characterization of Potential-Induced Degradation and Recovery in CIGS Solar Cells. Energies, 2021, 14, 4628.	1.6	7
13	Novel Polymerâ€Based Organic/câ€Si Monolithic Tandem Solar Cell: Enhanced Efficiency using Interlayer and Transparent Top Electrode Engineering. Macromolecular Rapid Communications, 2021, 42, 2100305.	2.0	4
14	First-Principles Study of Pt-Based Bifunctional Oxygen Evolution & Reduction Electrocatalyst: Interplay of Strain and Ligand Effects. Energies, 2021, 14, 7814.	1.6	6
15	Characterization of MOCVD-Prepared CIS Solar Cells. Energies, 2021, 14, 7721.	1.6	2
16	Efficient n-i-p Monolithic Perovskite/Silicon Tandem Solar Cells with Tin Oxide via a Chemical Bath Deposition Method. Energies, 2021, 14, 7614.	1.6	7
17	Amorphous Silicon Thin Film Deposition for Poly-Si/SiO2 Contact Cells to Minimize Parasitic Absorption in the Near-Infrared Region. Energies, 2021, 14, 8199.	1.6	3
18	Silicon Solar Cells: Multifunctional Effect of pâ€Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotubeâ€Based Silicon Solar Cells (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10	10.2	1

#	Article	IF	Citations
19	SiNW/C@Pt Arrays for High-Efficiency Counter Electrodes in Dye-Sensitized Solar Cells. Energies, 2020, 13, 139.	1.6	4
20	Multifunctional Effect of pâ€Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotubeâ€Based Silicon Solar Cells. Advanced Energy Materials, 2020, 10, 1902389.	10.2	40
21	Historical Analysis of Highâ€Efficiency, Largeâ€Area Solar Cells: Toward Upscaling of Perovskite Solar Cells. Advanced Materials, 2020, 32, e2002202.	11.1	103
22	Recent Progress in Interconnection Layer for Hybrid Photovoltaic Tandems. Advanced Materials, 2020, 32, 2002196.	11.1	20
23	Variations in Minority Carrier-Trapping Effects Caused by Hydrogen Passivation in Multicrystalline Silicon Wafer. Energies, 2020, 13, 5783.	1.6	2
24	Hybrid carbon thermal interface materials for thermoelectric generator devices. Scientific Reports, 2020, 10, 18854.	1.6	5
25	Boosting Solar Cell Performance via Centrally Localized Ag in Solution-Processed Cu(In,Ga)(S,Se)₂ Thin Film Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 36082-36091.	4.0	13
26	Carbon Nanotube Electrodeâ€Based Perovskiteâ€“Silicon Tandem Solar Cells. Solar Rrl, 2020, 4, 2000353.	3.1	19
27	Novel Double Acidic Texturing Process for Saw-Damage-Free Kerfless Multicrystalline Silicon Wafers. IEEE Journal of Photovoltaics, 2020, 10, 1545-1551.	1.5	8
28	Pre-Texturing Thermal Treatment for Saw-Damage-Removal-Free Wet Texturing of Monocrystalline Silicon Wafers. Energies, 2020, 13, 6610.	1.6	0
29	Absorber Delamination-Induced Shunt Defects in Alcohol-Based Solution-Processed Cu(In,Ga)(S,Se)2 Solar Modules. ACS Applied Energy Materials, 2020, 3, 10384-10392.	2.5	4
30	Comparison of quantitative analyses using SIMS, atom probe tomography, and femtosecond laser ablation inductively coupled plasma mass spectrometry with Si1â^'XGeX and Fe1â^'X NiX binary alloys. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, .	0.6	0
31	Dependence of the Optimization of the Front Grid Design in Passivated Emitter and Rear Contact c-Si Solar Cells on the Finger Width and the Aspect Ratio. Journal of the Korean Physical Society, 2020, 76, 774-780.	0.3	1
32	Perovskites fabricated on textured silicon surfaces for tandem solar cells. Communications Chemistry, 2020, 3, .	2.0	31
33	An Analysis of Fill Factor Loss Depending on the Temperature for the Industrial Silicon Solar Cells. Energies, 2020, 13, 2931.	1.6	7
34	Properties of Thermally Evaporated Titanium Dioxide as an Electron-Selective Contact for Silicon Solar Cells. Energies, 2020, 13, 678.	1.6	14
35	Effective Additive-Free Acidic-Solution Texturing for Surface-Damage-Free Kerfless Silicon Wafers. IEEE Journal of Photovoltaics, 2020, 10, 431-437.	1.5	5
36	Wet Chemical Oxidation to Improve Interfacial Properties of Al2O3/Si and Interface Analysis of Al2O3/SiOx/Si Structure Using Surface Carrier Lifetime Simulation and Capacitanceâ€“Voltage Measurement. Energies, 2020, 13, 1803.	1.6	1

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37	Investigation of Optimum Conditions for Synthesis of Cu(In,Ga)Se2 Nanoparticles by Refluxing. Journal of the Korean Physical Society, 2020, 76, 527-532.	0.3	0
38	Thin Ag Precursor Layer-Assisted Co-Evaporation Process for Low-Temperature Growth of Cu(In,Ga)Se₂ Thin Film. ACS Applied Materials & Interfaces, 2019, 11, 31923-31933.	4.0	29
39	Sputtering of TiO₂ for High-Efficiency Perovskite and 23.1% Perovskite/Silicon 4-Terminal Tandem Solar Cells. ACS Applied Energy Materials, 2019, 2, 6263-6268.	2.5	19
40	Surface Passivation of Boron Emitters on n-Type Silicon Solar Cells. Sustainability, 2019, 11, 3784.	1.6	2
41	Role of polysilicon in poly-Si/SiO_xpassivating contacts for high-efficiency silicon solar cells. RSC Advances, 2019, 9, 23261-23266.	1.7	39
42	Phenyl-C61-Butyric Acid Methyl Ester Hybrid Solution for Efficient CH3NH3PbI3 Perovskite Solar Cells. Sustainability, 2019, 11, 3867.	1.6	6
43	Tunnel oxide passivating electron contacts for highâ€efficiency nâ€type silicon solar cells with amorphous silicon passivating hole contacts. Progress in Photovoltaics: Research and Applications, 2019, 27, 1104-1114.	4.4	14
44	Effective Contact Formation Method on High-Sheet-Resistance Boron-Doped Emitter With Current Injection. IEEE Journal of Photovoltaics, 2019, 9, 615-620.	1.5	5
45	Impact of Buffer Layer Process and Na on Shunt Paths of Monolithic Series-connected CIGSSe Thin Film Solar Cells. Scientific Reports, 2019, 9, 3666.	1.6	13
46	Highly Efficient Indoor Organic Photovoltaics with Spectrally Matched Fluorinated Phenyleneâ€Alkoxybenzothiadiazoleâ€Based Wide Bandgap Polymers. Advanced Functional Materials, 2019, 29, 1901171.	7.8	69
47	Pinhole-free TiO₂/Ag_(O)/ZnO configuration for flexible perovskite solar cells with ultralow optoelectrical loss. RSC Advances, 2019, 9, 9160-9170.	1.7	25
48	Control of Structural and Electrical Properties of Indium Tin Oxide (ITO)/Cu(In,Ga)Se₂ Interface for Transparent Back-Contact Applications. Journal of Physical Chemistry C, 2019, 123, 1635-1644.	1.5	22
49	Passivation quality control in poly-Si/SiO /c-Si passivated contact solar cells with 734â€¯mV implied open circuit voltage. Solar Energy Materials and Solar Cells, 2019, 189, 21-26.	3.0	46
50	Optimization of Controllable Factors in the Aluminum Silicon Eutectic Paste and Rear Silicon Nitride Mono-Passivation Layer of PERC Solar Cells. Metals and Materials International, 2018, 24, 664-671.	1.8	5
51	Complementary Characterization of Cu(In,Ga)Se2 Thin-Film Photovoltaic Cells Using Secondary Ion Mass Spectrometry, Auger Electron Spectroscopy, and Atom Probe Tomography. Journal of Nanoscience and Nanotechnology, 2018, 18, 3548-3556.	0.9	1
52	Selective generation of Ag interstitial defects in Te-rich Bi 2 (Te,Se) 3 using Ag nanoparticles causing significant improvement in thermoelectric performance. Scripta Materialia, 2018, 144, 36-39.	2.6	1
53	Decoupling of thermal and electrical conductivities by adjusting the anisotropic nature in tungsten diselenide causing significant enhancement in thermoelectric performance. Journal of Industrial and Engineering Chemistry, 2018, 60, 458-464.	2.9	7
54	Study on hydrogen passivation behavior of SiNx film and its thermal annealing effect. , 2018, , .		1

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55	Thermal Residual Stress Analysis of Soldering and Lamination Processes for Fabrication of Crystalline Silicon Photovoltaic Modules. Energies, 2018, 11, 3256.	1.6	13
56	Potential of Chemical Rounding for the Performance Enhancement of a Monolithic Perovskite/Bifacial N-PERT Si Tandem Cell. , 2018, , .		0
57	Quantitative Analysis and Band Gap Determination for CIGS Absorber Layers Using Surface Techniques. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-9.	0.7	8
58	Analysis optical contribution of rear passivation layer to photo- generated current of silicon solar cell with numerical simulation. , 2018, , .		0
59	Method for evaluating interfacial resistances of thermoelectric devices using I-V measurement. Measurement: Journal of the International Measurement Confederation, 2018, 129, 281-287.	2.5	5
60	Effect of Substrate Roughness on Adhesion and Structural Properties of Tiâ€"Ni Shape Memory Alloy Thin Film. Journal of Nanoscience and Nanotechnology, 2018, 18, 6201-6205.	0.9	4
61	Potential induced degradation of nâ€type crystalline silicon solar cells with p⁺ front junction. Energy Science and Engineering, 2017, 5, 30-37.	1.9	45
62	Effects of Plasma Enhanced Chemical Vapor Deposition Radio Frequency on the Properties of SiNx:H Films. Journal of Nanoscience and Nanotechnology, 2017, 17, 4687-4693.	0.9	0
63	Characterization of Methylammonium Lead Iodide Perovskite Solar Cells by Surface Morphology Changes. Journal of Nanoscience and Nanotechnology, 2017, 17, 4817-4821.	0.9	2
64	Relationship between ion migration and interfacial degradation of CH3NH3PbI3 perovskite solar cells under thermal conditions. Scientific Reports, 2017, 7, 1200.	1.6	137
65	Effects of Annealing on Firing Stability of a Al₂O₃/SiN_x Stack Passivation Layer for Crystalline Silicon Solar Cells. Journal of Nanoscience and Nanotechnology, 2017, 17, 5050-5054.	0.9	3
66	Morphological characteristics in polycrystalline tungsten diselenide regulating transport properties lead to predominant thermoelectric performance. Journal of Alloys and Compounds, 2017, 722, 183-189.	2.8	3
67	Lifetime Analysis for Comparing POCl₃ Diffused Emitter Doping Characteristics in p-Type Silicon Solar Cells Using QSSPC. Journal of Nanoscience and Nanotechnology, 2017, 17, 4914-4919.	0.9	1
68	Structural evolution of tunneling oxide passivating contact upon thermal annealing. Scientific Reports, 2017, 7, 12853.	1.6	48
69	Optical Transmittance Enhancement of Flexible Copper Film Electrodes with a Wetting Layer for Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 38695-38705.	4.0	44
70	Investigation of Thermally Induced Degradation in CH3NH3PbI3 Perovskite Solar Cells using In-situ Synchrotron Radiation Analysis. Scientific Reports, 2017, 7, 4645.	1.6	177
71	Gapless point back surface field for the counter doping of largeâ€area interdigitated back contact solar cells using a blanket shadow mask implantation process. Progress in Photovoltaics: Research and Applications, 2017, 25, 989-995.	4.4	4
72	Production of Flexible Transparent Conducting Films of Selfâ€Fused Nanowires via Oneâ€Step Supersonic Spraying. Advanced Functional Materials, 2017, 27, 1602548.	7.8	54

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73	The silver contact and formation mechanism of the boron emitter and the current flow mechanism of the solar cell electrode. , 2017, , .		0
74	Facile and Thermally-Stable Al2O3 Passivation by Using In-Situ TiO2 as a Capping Layer for Boron Emitter of N-Type Silicon. Journal of Nanoscience and Nanotechnology, 2017, 17, 5003-5007.	0.9	2
75	Investigation of damage caused by partial shading of CuInxGa_(1-x)Se₂photovoltaic modules with bypass diodes. Progress in Photovoltaics: Research and Applications, 2016, 24, 1035-1043.	4.4	38
76	UV Degradation and Recovery of Perovskite Solar Cells. Scientific Reports, 2016, 6, 38150.	1.6	269
77	Effects of Current-injection Firing with Ag Paste in a Boron Emitter. Scientific Reports, 2016, 6, 21553.	1.6	10
78	Influence of Particle Velocity of Copper on Emitter Contact by Cold-Spray Method. Journal of Thermal Spray Technology, 2016, 25, 465-472.	1.6	5
79	New Chemical Reaction Process of a Bi₂Te_{2.7}Se_{0.3} Nanomaterial for Feasible Optimization in Transport Properties Resulting in Predominant n-Type Thermoelectric Performance. Industrial & Engineering Chemistry Research, 2016, 55, 5623-5633.	1.8	15
80	A novel chemical process of Bi 2 Te 2.7 Se 0.3 nanocompound for effective adjustment in transport properties resulting in remarkable n-type thermoelectric performance. Scripta Materialia, 2016, 119, 13-16.	2.6	4
81	Radiationâ€Hard and Ultralightweight Polycrystalline Cadmium Telluride Thinâ€Film Solar Cells for Space Applications. Energy Technology, 2016, 4, 1463-1468.	1.8	4
82	Electric-Field-Induced Degradation of Methylammonium Lead Iodide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 3091-3096.	2.1	169
83	Use of antireflection layers to avoid ghost plating on Ni/Cu plated crystalline silicon solar cells. Japanese Journal of Applied Physics, 2016, 55, 036502.	0.8	5
84	Cu₂ZnSnS₄solar cells with a single spin-coated absorber layer prepared via a simple sol-gel route. International Journal of Energy Research, 2016, 40, 662-669.	2.2	22
85	Electrochemical nature of contact firing reactions for screenâ€printed silicon solar cells: origin of â€œgray fingerâ€•phenomenon. Progress in Photovoltaics: Research and Applications, 2016, 24, 1237-1250.	4.4	19
86	Effects of the Cu/(Ga+In) ratio on the bulk and interface properties of Cu(InGa)(SSe)2 solar cells. Solar Energy Materials and Solar Cells, 2016, 149, 195-203.	3.0	18
87	Electrocatalytic activity of NiO on silicon nanowires with a carbon shell and its application in dye-sensitized solar cell counter electrodes. Nanoscale, 2016, 8, 7761-7767.	2.8	28
88	The oxidation effect of a Mo back contact on Cu(In,Ga)(Se,S) thin-film solar modules. Solar Energy Materials and Solar Cells, 2016, 144, 445-450.	3.0	6
89	Long Vertically Aligned TiO₂ Nanotube Electrodes Prepared via Twoâ€Step Anodization for Highly Efficient Photovoltaics. Israel Journal of Chemistry, 2015, 55, 1034-1040.	1.0	6
90	Nanoâ€glass frit for inkjet printed front side metallization of silicon solar cells prepared by solâ€“gel process. Physica Status Solidi - Rapid Research Letters, 2015, 9, 293-296.	1.2	4

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91	Effects of Preâ€annealing on Firing Stability of Atomic Layerâ€Deposited Al₂O₃. Israel Journal of Chemistry, 2015, 55, 1075-1080.	1.0	1
92	Migration of Sn and Pb from Solder Ribbon onto Ag Fingers in Field-Aged Silicon Photovoltaic Modules. International Journal of Photoenergy, 2015, 2015, 1-7.	1.4	8
93	A simulation study on the electrical structure of interdigitated back-contact silicon solar cells. Journal of the Korean Physical Society, 2015, 66, 1521-1526.	0.3	0
94	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 19043-19049.	4.0	49
95	Boronâ€doped hydrogenated silicon carbide alloys containing silicon nanocrystallites for highly efficient nanocrystalline silicon thinâ€film solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1715-1723.	4.4	10
96	Light trapping in bendable organic solar cells using silica nanoparticle arrays. Energy and Environmental Science, 2015, 8, 932-940.	15.6	50
97	A coaxial structure of multiwall carbon nanotubes on vertically aligned Si nanorods and its intrinsic characteristics. Journal of Materials Chemistry C, 2014, 2, 6985.	2.7	9
98	Study of reaction mechanisms and synthetic manipulations of bismuth tellurium selenide nanomaterials for enhanced thermoelectric performance. Journal of Alloys and Compounds, 2014, 584, 108-113.	2.8	5
99	Chemical bath deposition of cadmium sulfide on graphene-coated flexible glass substrate. Applied Physics Letters, 2014, 104, .	1.5	7
100	Investigation of Reaction Mechanisms of Bismuth Tellurium Selenide Nanomaterials for Simple Reaction Manipulation Causing Effective Adjustment of Thermoelectric Properties. ACS Applied Materials & Interfaces, 2014, 6, 778-785.	4.0	6
101	Investigation of Al back contacts and BSF formation by in situ TEM for silicon solar cells. Progress in Photovoltaics: Research and Applications, 2014, 22, 863-869.	4.4	9
102	Advanced yield strength of interconnector ribbon for photovoltaic module using crystallographic texture control. Metals and Materials International, 2014, 20, 229-232.	1.8	4
103	Cold Spray Deposition of Copper Electrodes on Silicon and Glass Substrates. Journal of Thermal Spray Technology, 2013, 22, 1092-1102.	1.6	59
104	Three-dimensional graphene foam-based transparent conductive electrodes in GaN-based blue light-emitting diodes. Applied Physics Letters, 2013, 102, .	1.5	38
105	Lifetime prediction model of thermal fatigue stress on crystalline silicon photovoltaic module. , 2013, , .		2
106	Tellurium-evaporation-annealing for p-type bismuthâ€“antimonyâ€“telluride thermoelectric materials. Journal of Alloys and Compounds, 2013, 548, 126-132.	2.8	14
107	Fabrication of panchromatic dye-sensitized solar cells using pre-dye coated TiO2 nanoparticles by a simple dip coating technique. RSC Advances, 2013, 3, 4801.	1.7	39
108	Improvement of electrical properties in screen-printed crystalline silicon solar cells by contact treatment of the grid edge. Metals and Materials International, 2013, 19, 1333-1338.	1.8	8

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109	Effect of density of localized states on the ovonic threshold switching characteristics of the amorphous GeSe films. Applied Physics Letters, 2013, 103, .	1.5	28
110	Growth of CdTe thin films on graphene by close-spaced sublimation method. Applied Physics Letters, 2013, 103, .	1.5	18
111	CdTe microwire-based ultraviolet photodetectors aligned by a non-uniform electric field. Applied Physics Letters, 2013, 103, .	1.5	14
112	Characterization of flexible hybrid transparent conductive films fabricated with silver nanowires and carbon nanotubes for organic solar cells. , 2013, , .		1
113	Superhydrophilic Transparent Titania Films by Supersonic Aerosol Deposition. Journal of the American Ceramic Society, 2013, 96, 1596-1601.	1.9	31
114	Front contact layer of multiphase silicon-carbon in thin film silicon solar cell. Applied Physics Letters, 2012, 101, 133910.	1.5	8
115	Effect of High-Temperature Annealing on Ion-Implanted Silicon Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-6.	1.4	15
116	Exploiting metallic glasses for 19.6% efficient back contact solar cell. Applied Physics Letters, 2012, 101, 064106.	1.5	21
117	Significant Enhancement in the Thermoelectric Performance of a Bismuth Telluride Nanocompound through Brief Fabrication Procedures. ACS Applied Materials & Interfaces, 2012, 4, 2949-2954.	4.0	28
118	Thermoelectric properties of c-axis aligned Bi-Te materials. AIP Conference Proceedings, 2012, , .	0.3	2
119	Tuning Hydrophobicity with Honeycomb Surface Structure and Hydrophilicity with <scp><scp>CF</scp></scp>₄ Plasma Etching for Aerosolâ€Deposited Titania Films. Journal of the American Ceramic Society, 2012, 95, 3955-3961.	1.9	16
120	High-efficiency grid-type Si solar cell structure. Journal of the Korean Physical Society, 2012, 60, 2075-2078.	0.3	1
121	Solvothermal synthesis and characterization of a CuInTe2 absorber for thin-film photovoltaics. Materials Research Bulletin, 2012, 47, 4054-4058.	2.7	15
122	Effects of rapid thermal process on the junction properties of aluminum rear emitter solar cells. Metals and Materials International, 2012, 18, 731-734.	1.8	4
123	The effect of encapsulant delamination on electrical performance of PV module. , 2011, , .		7
124	A study of the synthesis of bismuth tellurium selenide nanocompounds and procedures for improving their thermoelectric performance. Journal of Alloys and Compounds, 2011, 509, 9472-9478.	2.8	14
125	Fabrication of bismuth telluride nanoparticles using a chemical synthetic process and their thermoelectric evaluations. Powder Technology, 2011, 214, 463-468.	2.1	31
126	Development of bismuth tellurium selenide nanoparticles for thermoelectric applications via a chemical synthetic process. Materials Research Bulletin, 2011, 46, 407-412.	2.7	19

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127	Influence of powder morphology on thermoelectric anisotropy of spark-plasma-sintered Biâ€“Te-based thermoelectric materials. Acta Materialia, 2011, 59, 405-411.	3.8	70
128	Fabrication and thermoelectric properties of c-axis-aligned Bi0.5Sb1.5Te3 with a high magnetic field. Acta Materialia, 2011, 59, 4957-4963.	3.8	20
129	Study on defects related to local bonding of oxygen in hydrogenated silicon oxide films. , 2011, , .		1
130	Surface passivation properties of boron and phosphor-doped a-Si:H films with multi-step deposition for si heterojunction solar cells. , 2010, , .		1
131	Investigation on the role of nitrogen in crystallization of Sb-rich phase change materials. Applied Physics Letters, 2009, 95, .	1.5	14
132	A Structural and Compositional Analysis of a TiOx Diffusion Barrier for Indium Tin Oxide/Si Contacts. Metals and Materials International, 2008, 14, 481-485.	1.8	0
133	The properties of surface textured ZnO:Al films grown in hydrogen atmosphere. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
134	Microstructural and optical analysis of superresolution phenomena due to Ge2Sb2Te5 thin films at blue light regime. Applied Physics Letters, 2008, 93, 221108.	1.5	7
135	Schottky barrier characteristics of Pt contacts to n-type InGaN. Journal of Applied Physics, 2006, 99, 073704.	1.1	63
136	Low turn-on voltage and series resistance of polarization-induced InGaN-GaN LEDs by using p-InGaN/p-GaN superlattice. IEEE Photonics Technology Letters, 2006, 18, 1536-1538.	1.3	17
137	A study on the optoelectronic properties of CuIn1-xGaxSe2 grain boundaries by electrostatic force microscopy. , 2006, , .		0
138	Hybrid solar cells with vertically aligned CdTe nanorods and a conjugated polymer. Applied Physics Letters, 2005, 86, 113101.	1.5	146
139	Indium-tin oxide/Si contacts with In- and Sn-diffusion barriers in polycrystalline Si thin-film transistor liquid-crystal displays. Journal of Electronic Materials, 2003, 32, 919-924.	1.0	18
140	Timeâ€Dependent Electrochromism of Nanocrystalline TiO2 Films in Propylene Carbonate Solution of LiClO4. Journal of the Electrochemical Society, 1998, 145, 1982-1986.	1.3	29
141	A study on the mechanism of the hole density depletion in p-type cadmium telluride during heat treatment. Metals and Materials International, 1996, 2, 109-119.	0.2	0
142	Transport measurements inpâ€type CdTe single crystals and ionâ€beam doped thin films. Journal of Applied Physics, 1993, 73, 8359-8363.	1.1	9
143	Effect of CdS annealing in (CdCl/sub 2/+CdS) atmosphere on CdTe cells. , 0, , .		0
144	Type conversion of boron-doped silicon wafers by 3-MeV proton irradiation. , 0, , .		0

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145	Enhanced CdTe solar cell performance through surface engineering. , 0, , .		0
146	A study on Cu metallization for crystalline Si solar cells. , 0, , .		1
147	Fabrication and characterization of CdTe nanorod/conjugated polymer solar cells. , 0, , .		0