

# Jer-Ren Yang

## List of Publications by Year in descending order

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225  
papers

6,962  
citations

71102

41  
h-index

82547

72  
g-index

227  
all docs

227  
docs citations

227  
times ranked

5727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical nanotwins in Fe <sub>27</sub> Co <sub>24</sub> Ni <sub>23</sub> Cr <sub>26</sub> high-entropy alloy subjected to high strain-rate Hopkinson bar deformation. <i>Materials Characterization</i> , 2022, 185, 111737.	4.4	8
2	Verification of the ability of Cu to dissolve in BCC $\gamma$ in a $\gamma$ - $\gamma'$ Solid Solution above 1200 $\text{\AA}^\circ\text{C}$ and boosting $\gamma'$ nano-hardness in Cu-containing PHSS. <i>Scripta Materialia</i> , 2022, 211, 114505.	5.2	5
3	HR-STEM investigation of atomic lattice defects in different types of $\gamma'$ precipitates in creep-age forming Al $\gamma$ -Zn $\gamma$ -Mg $\gamma$ -Cu aluminium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 815, 141213.	5.6	22
4	Electron work function: an indicative parameter towards a novel material design methodology. <i>Scientific Reports</i> , 2021, 11, 11565.	3.3	17
5	Microstructural Characterization and Mechanical Properties of Duplex and Super Austenitic Stainless Steels under Dynamic Impact Deformation. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8169.	2.5	2
6	Investigation on the ballistic induced nanotwinning in the Mn-free Fe <sub>27</sub> Co <sub>24</sub> Ni <sub>23</sub> Cr <sub>26</sub> high entropy alloy plate. <i>Materials Chemistry and Physics</i> , 2021, 270, 124707.	4.0	13
7	Microstructural variation in fatigued interphase arrayed nano-precipitated Ti-microalloyed steel. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2393-2404.	5.8	2
8	A novel technique for developing a dual-phase steel with a lower strength difference between ferrite and martensite. <i>Materials Today Communications</i> , 2020, 23, 100895.	1.9	11
9	Investigation of nanotwins in the bimodal-structured Fe <sub>22</sub> Co <sub>22</sub> Ni <sub>20</sub> Cr <sub>22</sub> Mn <sub>14</sub> alloy subjected to high-strain-rate deformation at cryogenic temperatures. <i>Materials Characterization</i> , 2020, 170, 110667.	4.4	11
10	Microstructure Characterization of Massive Ferrite in Laser-Weldments of Interstitial-Free Steels. <i>Metals</i> , 2020, 10, 898.	2.3	3
11	Dielectric properties and reliability enhancement of atomic layer deposited thin films by <i>in situ</i> atomic layer substrate biasing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13025-13032.	5.5	4
12	Large Delta T Thermal Cycling Induced Stress Accelerates Equilibrium and Transformation in Super DSS. <i>Crystals</i> , 2020, 10, 962.	2.2	3
13	Characteristics of Flakes Stacked Cr <sub>2</sub> N with Many Domains in Super Duplex Stainless Steel. <i>Crystals</i> , 2020, 10, 965.	2.2	3
14	Atomic-resolution energy dispersive X-ray spectroscopy mapping of $\gamma'$ precipitates in an Al-Mg-Zn-Cu alloy. <i>Materials Characterization</i> , 2020, 166, 110448.	4.4	12
15	Microstrain and boundary misorientation evolution for recrystallized super DSS after deformation. <i>Materials Chemistry and Physics</i> , 2020, 246, 122815.	4.0	12
16	Molybdenum alloying in high-performance flat-rolled steel grades. <i>Advances in Manufacturing</i> , 2020, 8, 15-34.	6.1	15
17	Metallurgical Effects of Niobium in Dual Phase Steel. <i>Metals</i> , 2020, 10, 504.	2.3	11
18	Low-Temperature Physical Adsorption for the Nucleation of Sub-10 nm Al <sub>2</sub> O <sub>3</sub> Gate Stack on Top-Gated WS <sub>2</sub> Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1289-1294.	4.3	3

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19	CVD growth of large-area InS atomic layers and device applications. <i>Nanoscale</i> , 2020, 12, 9366-9374.	5.6	9
20	Twin relationship in between the variant-pair of $\delta$ -precipitates in the Al-Zn-Mg-Cu aluminium alloy. <i>MATEC Web of Conferences</i> , 2020, 326, 01002.	0.2	0
21	Characterization of nano-sized precipitation and dislocations and the correlation with mechanical properties of a low alloy TRIP-aided steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138149.	5.6	15
22	Thermal cycling induced stress-assisted sigma phase formation in super duplex stainless steel. <i>Materials and Design</i> , 2019, 182, 108003.	7.0	10
23	In-situ transmission electron microscopy investigation of compressive deformation in interphase-precipitated carbide-strengthened $\delta$ -iron single-crystal nanopillars. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 406-415.	5.6	7
24	Microstructure characterization and strengthening behavior of dual precipitation particles in Cu Ti microalloyed dual-phase steels. <i>Materials and Design</i> , 2019, 166, 107613.	7.0	13
25	Understanding Mechanical Properties of Nano-Grained Bainitic Steels from Multiscale Structural Analysis. <i>Metals</i> , 2019, 9, 426.	2.3	8
26	An atomic scale structural investigation of nanometre-sized $\delta$ -precipitates in the 7050 aluminium alloy. <i>Acta Materialia</i> , 2019, 174, 351-368.	7.9	110
27	Microstructure and mechanical behaviors of GPa-grade TRIP steels enabled by hot-rolling processes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138005.	5.6	22
28	Microstructural mechanisms controlling the mechanical behaviour of ultrafine grained martensite/austenite microstructures in a metastable stainless steel. <i>Materials and Design</i> , 2019, 181, 107922.	7.0	17
29	Intrinsic twin boundary of $\delta$ -MgZn <sub>2</sub> precipitates in the AA7050 aluminium alloy. <i>Procedia Manufacturing</i> , 2019, 37, 201-206.	1.9	5
30	High-entropy CoCrFeMnNi alloy subjected to high-strain-rate compressive deformation. <i>Materials Characterization</i> , 2019, 147, 193-198.	4.4	43
31	Strain rate dependence on the evolution of microstructure and deformation mechanism during nanoscale deformation in low carbon-high Mn TWIP steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 116-123.	5.6	28
32	The application of convergent beam electron diffraction (CBED) analysis on transformation-induced plasticity (TRIP) steels. <i>Microscopy Research and Technique</i> , 2019, 82, 4-11.	2.2	1
33	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. <i>Acta Materialia</i> , 2018, 149, 377-387.	7.9	168
34	The effect of finish rolling temperature and tempering on the microstructure, mechanical properties and dislocation density of direct-quenched steel. <i>Materials Characterization</i> , 2018, 139, 1-10.	4.4	58
35	Phase quantification in low carbon Nb-Mo bearing steel by electron backscatter diffraction technique coupled with kernel average misorientation. <i>Materials Characterization</i> , 2018, 139, 49-58.	4.4	61
36	Fatigue behavior and microstructural characteristics of a duplex stainless steel weld metal under vibration-assisted welding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 319-327.	5.6	8

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37	Crystallographic examination of the interaction between texture evolution, mechanically induced martensitic transformation and twinning in nanostructured bainite. <i>Journal of Alloys and Compounds</i> , 2018, 752, 505-519.	5.5	19
38	Precipitation behavior in bimodal ferrite grains in a low carbon Ti-V-bearing steel. <i>Scripta Materialia</i> , 2018, 143, 103-107.	5.2	11
39	Evolution of resistive switching mechanism through H <sub>2</sub> O <sub>2</sub> sensing by using TaO <sub>x</sub> -based material in W/Al <sub>2</sub> O <sub>3</sub> /TaO <sub>x</sub> /TiN structure. <i>Applied Surface Science</i> , 2018, 433, 51-59.	6.1	27
40	Modeling of Precipitation Hardening during Coiling of Nb-Mo Steels. <i>Metals</i> , 2018, 8, 758.	2.3	6
41	Size effect and strain induced double twin by nanoindentation in DSS weld metal of vibration-assisted GTAW. <i>Materials Chemistry and Physics</i> , 2018, 219, 40-50.	4.0	6
42	Morphological evolution of GP zones and nanometer-sized precipitates in the AA2050 aluminium alloy. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018, 1, 142-156.	2.1	14
43	Impact of Intercritical Annealing on Retained Austenite and Toughness of a 460MPa Grade Multiphase Heavy Gauge Plate Steel. <i>Steel Research International</i> , 2018, 89, 1800006.	1.8	2
44	Cross-Point Resistive Switching Memory and Urea Sensing by Using Annealed GdO <sub>x</sub> Film in IrO <sub>x</sub> /GdO <sub>x</sub> /W Structure for Biomedical Applications. <i>Journal of the Electrochemical Society</i> , 2017, 164, B127-B135.	2.9	19
45	Effect of Cr and Al additions on the development of interphase-precipitated carbides strengthened dual-phase Ti-bearing steels. <i>Materials and Design</i> , 2017, 119, 319-325.	7.0	27
46	Densification, microstructure evolution, and microwave dielectric properties of Mg <sub>1-x</sub> Ca <sub>x</sub> ZrTa <sub>2</sub> O <sub>8</sub> ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2825-2831.	5.7	23
47	Effect of Boron on the Strength and Toughness of Direct-Quenched Low-Carbon Niobium Bearing Ultra-High-Strength Martensitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5344-5356.	2.2	25
48	Effect of interpass temperature on the microstructure and mechanical properties of multi-pass weld metal in a 550-MPa-grade offshore engineering steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 1155-1168.	2.5	41
49	Influence of welding pass on microstructure and toughness in the reheated zone of multi-pass weld metal of 550 MPa offshore engineering steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 196-205.	5.6	47
50	Microstructural evolutions of low carbon Nb/Mo-containing bainitic steels during high-temperature tempering. <i>Materials Characterization</i> , 2017, 131, 298-305.	4.4	46
51	Negative voltage modulated multi-level resistive switching by using a Cr/BaTiO <sub>x</sub> /TiN structure and quantum conductance through evidence of H <sub>2</sub> O <sub>2</sub> sensing mechanism. <i>Scientific Reports</i> , 2017, 7, 4735.	3.3	42
52	A unified constitutive model for asymmetric tension and compression creep-ageing behaviour of naturally aged Al-Cu-Li alloy. <i>International Journal of Plasticity</i> , 2017, 89, 130-149.	8.8	100
53	Investigation of idiomorphic ferrite and allotriomorphic ferrite using electron backscatter diffraction technique. <i>Materials Science and Technology</i> , 2017, 33, 537-545.	1.6	5
54	Effects of interphase TiC precipitates on tensile properties and dislocation structures in a dual phase steel. <i>Materials Characterization</i> , 2017, 123, 153-158.	4.4	40

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55	Severe deformation of nanostructured bainitic steel. <i>Procedia Engineering</i> , 2017, 207, 1862-1867.	1.2	4
56	Highly Reliable Label-Free Detection of Urea/Glucose and Sensing Mechanism Using SiO <sub>2</sub> and CdSe-ZnS Nanoparticles in Electrolyte-Insulator-Semiconductor Structure. <i>Journal of the Electrochemical Society</i> , 2016, 163, B580-B587.	2.9	17
57	In-situ transmission electron microscopy investigation of the deformation behavior of spinodal nanostructured $\hat{\gamma}$ -ferrite in a duplex stainless steel. <i>Scripta Materialia</i> , 2016, 125, 44-48.	5.2	34
58	Detection of pH and Enzyme-Free H <sub>2</sub> O <sub>2</sub> Sensing Mechanism by Using GdO <sub>x</sub> Membrane in Electrolyte-Insulator-Semiconductor Structure. <i>Nanoscale Research Letters</i> , 2016, 11, 434.	5.7	6
59	Investigation of the microstructure and toughness of 550 MPa grade pipeline after the hot-bending process. <i>Materials Science and Technology</i> , 2016, 32, 664-674.	1.6	3
60	Microstructural characterization and strengthening behavior of nanometer sized carbides in Ti-Mo microalloyed steels during continuous cooling process. <i>Materials Characterization</i> , 2016, 114, 18-29.	4.4	40
61	Mechanical behavior and microstructural evolution of nanostructured bainite under high-strain rate deformation by Hopkinson bar. <i>Scripta Materialia</i> , 2016, 115, 46-51.	5.2	23
62	Investigation of photoluminescence dynamics in InGaN/GaN multiple quantum wells. <i>Materials Letters</i> , 2016, 173, 170-173.	2.6	6
63	Crystallographic analysis of lenticular martensite in Fe-1.0C-17Cr stainless steel by electron backscatter diffraction. <i>Materials Characterization</i> , 2016, 113, 17-25.	4.4	13
64	B22-P-09 The misorientation change in lenticular martensite by Electron Backscattered Diffraction and Convergent Beam Kikuchi Line Diffraction Pattern. <i>Microscopy (Oxford, England)</i> , 2015, 64, i107.1-i107.	1.5	0
65	B11-P-11 The effect of aging on the phase transformation of AA7050 aluminum alloys. <i>Microscopy (Oxford, England)</i> , 2015, 64, i83.2-i83.	1.5	0
66	Structure and electrical property changes of ZnO:Al films, prepared by radio frequency magnetron sputtering, by thermal annealing. <i>Microscopy and Microanalysis</i> , 2015, 21, 1797-1798.	0.4	0
67	Structure of Ru/Pt Nanocomposite Films Fabricated by Plasma-Enhanced Atomic Layer Depositions. <i>Microscopy and Microanalysis</i> , 2015, 21, 1931-1932.	0.4	0
68	B12-O-18 Insight into the Deformation Behavior of Spinodal Nanostructured $\hat{\gamma}$ -Ferrite in a 2205 Duplex Stainless Steel. <i>Microscopy (Oxford, England)</i> , 2015, 64, i27.2-i27.	1.5	0
69	Retarded phase transition by fluorine doping in Li-rich layered Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> cathode material. <i>Journal of Power Sources</i> , 2015, 283, 162-170.	7.8	190
70	Microstructural characterization of Charpy-impact-tested nanostructured bainite. <i>Materials Characterization</i> , 2015, 107, 63-69.	4.4	37
71	Structural investigation of Ru/Pt nanocomposite films prepared by plasma-enhanced atomic layer depositions. <i>Micron</i> , 2015, 74, 8-14.	2.2	4
72	Improved resistive switching phenomena and mechanism using Cu-Al alloy in a new Cu:AlO <sub>x</sub> /TaO <sub>x</sub> /TiN structure. <i>Journal of Alloys and Compounds</i> , 2015, 637, 517-523.	5.5	35

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73	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. <i>Jom</i> , 2015, 67, 2223-2235.	1.9	48
74	Synergistic effect of austenitizing temperature and hot plastic deformation strain on the precipitation behavior in novel HSLA steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 145-154.	5.6	16
75	Ultralow threading dislocation density in GaN epilayer on near-strain-free GaN compliant buffer layer and its applications in hetero-epitaxial LEDs. <i>Scientific Reports</i> , 2015, 5, 13671.	3.3	51
76	Impact of AlO <sub>x</sub> interfacial layer and switching mechanism in W/AlO <sub>x</sub> /TaO <sub>x</sub> /TiN RRAMs. , 2014, , .		2
77	Three phase crystallography and solute distribution analysis during residual austenite decomposition in tempered nanocrystalline bainitic steels. <i>Materials Characterization</i> , 2014, 88, 15-20.	4.4	18
78	Enhanced resistive switching phenomena using low-positive-voltage format and self-compliance IrO <sub>x</sub> /GdO <sub>x</sub> /W cross-point memories. <i>Nanoscale Research Letters</i> , 2014, 9, 12.	5.7	30
79	Conductive and transparent multilayer films for low-temperature TiO <sub>2</sub> /Ag/SiO <sub>2</sub> electrodes by E-beam evaporation with IAD. <i>Nanoscale Research Letters</i> , 2014, 9, 35.	5.7	41
80	High energy spinel-structured cathode stabilized by layered materials for advanced lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 271, 604-613.	7.8	37
81	Superledge Model for Interphase Precipitation During Austenite-to-Ferrite Transformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5351-5361.	2.2	22
82	Low current cross-point memory using gadolinium-oxide switching material. , 2014, , .		0
83	NH <sub>4</sub> F surface modification of Li-rich layered cathode materials. <i>Solid State Ionics</i> , 2014, 264, 36-44.	2.7	35
84	Investigation on optical and electrical properties of ZnO sandwich structure with metal interlayer. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FF05.	1.5	4
85	Secondary hardened bainite. <i>Materials Science and Technology</i> , 2014, 30, 1014-1023.	1.6	28
86	Investigation of the Microstructure, Porosity, Adhesion, and Optical Properties of a WO <sub>3</sub> Film Fabricated Using an E-Beam System With Ion Beam-Assisted Deposition. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	2
87	Stabilization of retained austenite by the two-step intercritical heat treatment and its effect on the toughness of a low alloyed steel. <i>Materials &amp; Design</i> , 2014, 59, 193-198.	5.1	111
88	Stability of retained austenite in multi-phase microstructure during austempering and its effect on the ductility of a low carbon steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 603, 69-75.	5.6	100
89	Structure and properties of hot-pressed lead-free (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> piezoelectric ceramics. <i>RSC Advances</i> , 2013, 3, 20693.	3.6	47
90	Optical and structural studies of dual wavelength InGaN/GaN tunnel-injection light emitting diodes grown by metalorganic chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 529, 269-274.	1.8	13

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91	Structural investigation of ZnO:Al films deposited on the Si substrates by radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2013, 545, 183-187.	1.8	12
92	Structural analysis of Au/TiO <sub>2</sub> thin films deposited on the glass substrate. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	12
93	The transition from interphase-precipitated carbides to fibrous carbides in a vanadium-containing medium-carbon steel. <i>Scripta Materialia</i> , 2013, 68, 829-832.	5.2	29
94	Tunable Optical and Structural Properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O Films Prepared by In Situ Atomic Layer Doping Technique. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, P31-P35.	1.8	2
95	Unipolar Resistive Switching Memory Characteristics Using IrO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> /p-Si MIS Structure. <i>ECS Transactions</i> , 2012, 45, 345-348.	0.5	2
96	The influence of Widmanstatten ferrite on yielding behavior of Nb-containing reinforcing steel bars. <i>Scripta Materialia</i> , 2012, 67, 431-434.	5.2	5
97	ZnO-based ultra-violet light emitting diodes and nanostructures fabricated by atomic layer deposition. <i>Semiconductor Science and Technology</i> , 2012, 27, 074005.	2.0	46
98	Formation polarity dependent improved resistive switching memory characteristics using nanoscale (1.3 nm) core-shell IrO <sub>x</sub> nano-dots. <i>Nanoscale Research Letters</i> , 2012, 7, 194.	5.7	48
99	Twinned formation in weld metal of titanium bearing nano precipitated high strength steel. <i>Materials Chemistry and Physics</i> , 2012, 136, 1103-1108.	4.0	3
100	Blue-shifted stimulated emission from ZnO films deposited on SiO <sub>2</sub> by atomic layer deposition. <i>Materials Chemistry and Physics</i> , 2012, 135, 88-93.	4.0	3
101	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. <i>Scripta Materialia</i> , 2012, 66, 1018-1023.	5.2	89
102	Solution processable nanocarbon platform for polymer solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 3521.	30.8	47
103	Interplay of Three-Dimensional Morphologies and Photocarrier Dynamics of Polymer/TiO <sub>2</sub> Bulk Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 11614-11620.	13.7	66
104	Particle Size and Morphology of Iridium Oxide Nanocrystals in Non-Volatile Memory Device. <i>Materials Transactions</i> , 2011, 52, 331-335.	1.2	3
105	Low-alloy duplex, directly quenched transformation-induced plasticity steel. <i>Scripta Materialia</i> , 2011, 65, 604-607.	5.2	32
106	Isothermal treatment influence on nanometer-size carbide precipitation of titanium-bearing low carbon steel. <i>Materials Letters</i> , 2011, 65, 396-399.	2.6	44
107	White-Light Electroluminescence From n-ZnO/p-GaN Heterojunction Light-Emitting Diodes at Reverse Breakdown Bias. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3970-3975.	3.0	33
108	Complementary use of transmission electron microscopy and atom probe tomography for the examination of plastic accommodation in nanocrystalline bainitic steels. <i>Acta Materialia</i> , 2011, 59, 6117-6123.	7.9	68

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109	Interphase precipitation of nanometer-sized carbides in a titanium-molybdenum-bearing low-carbon steel. <i>Acta Materialia</i> , 2011, 59, 6264-6274.	7.9	254
110	Dynamic strain aging in low cycle fatigue of duplex titanium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4381-4389.	5.6	22
111	Microtwin formation in the $\beta$ phase of duplex titanium alloys affected by strain rate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2271-2276.	5.6	18
112	Study on sandwich structure of the transparent conducting oxide films prepared by electron beam evaporation at room temperature. , 2011, , .		1
113	Structural and Photoluminescence Properties of ZnO Films Grown on 6H-SiC Substrates by Low-Temperature Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2011, 158, H1213.	2.9	2
114	P-Type ZnO:P Films Fabricated by Atomic Layer Deposition and Thermal Processing. <i>Journal of the Electrochemical Society</i> , 2011, 158, H516.	2.9	11
115	Effects of Iridium Oxide Thickness and Post Annealing Temperature on the Size and Density of Core-Shell IrOx-Based Nanocrystals of a Nonvolatile Memory Device. <i>ECS Transactions</i> , 2011, 41, 115-119.	0.5	0
116	STRUCTURAL INVESTIGATION OF n-ZnO/p-GaN ULTRAVIOLET LIGHT-EMITTING DIODES GROWN BY ATOMIC LAYER DEPOSITION. <i>Functional Materials Letters</i> , 2011, 04, 221-224.	1.2	3
117	Temperature-Dependent Physical and Memory Characteristics of Atomic-Layer-Deposited $\text{RuO}_2$ Nanocrystal Capacitors. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-12.		
118	Materials science and engineering at National Taiwan University. <i>International Heat Treatment and Surface Engineering</i> , 2010, 4, 48-49.	0.2	0
119	Fabrication of ZnO Nanopillars by Atomic Layer Deposition. <i>Materials Transactions</i> , 2010, 51, 253-255.	1.2	11
120	Structure and Electro-Optical Properties of Thin Films Grown by Alternate Atomic Layer Deposition of ZnO and $\text{Al}_2\text{O}_3$ on the Sapphire Substrate. <i>Materials Transactions</i> , 2010, 51, 219-226.	1.2	17
121	ZnO-based heterojunction light-emitting diodes on p-SiC(4H) grown by atomic layer deposition. <i>Applied Physics B: Lasers and Optics</i> , 2010, 98, 767-772.	2.2	32
122	Structure and Ultraviolet Electroluminescence of $\text{ZnO/SiO}_2/\text{ZnO}$ Nanocomposite/GaN Heterostructure Light-Emitting Diodes. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 2195-2202.	3.0	12
123	UV Electroluminescence and Structure of n-ZnO/p-GaN Heterojunction LEDs Grown by Atomic Layer Deposition. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 265-271.	1.9	34
124	Inducement of bainite and carbide transformation from retained austenite based on a high strain rate. <i>Scripta Materialia</i> , 2010, 62, 372-375.	5.2	3
125	Substructures of martensite in Fe-17Cr stainless steel. <i>Scripta Materialia</i> , 2010, 62, 670-673.	5.2	27
126	Temperature-dependent photoluminescence of arsenic-doped Si nanocrystals. <i>Journal of Luminescence</i> , 2010, 130, 1485-1488.	3.1	4



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127	Structure and stimulated emission of a high-quality zinc oxide epilayer grown by atomic layer deposition on the sapphire substrate. <i>Thin Solid Films</i> , 2010, 519, 536-540.	1.8	19
128	Electron microscopy investigations of V defects in multiple InGaN/GaN quantum wells and InGaN quantum dots. <i>Journal of Microscopy</i> , 2010, 237, 275-281.	1.8	2
129	Density and Grain Size of the IrOx Metal Nanocrystals in n-Si/SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /IrOx/Al <sub>2</sub> O <sub>3</sub> Memory Capacitors. <i>ECS Transactions</i> , 2010, 33, 333-337.	0.5	0
130	The Structure and Ultraviolet Electroluminescence of n-ZnO-SiO <sub>2</sub> -ZnO Nanocomposite/p-GaN Heterojunction LED. <i>ECS Transactions</i> , 2010, 33, 267-275.	0.5	1
131	Characteristics of ALD High-k HfAlOx Nanocrystals in Memory Capacitors Annealed at High Temperatures. <i>ECS Transactions</i> , 2010, 33, 347-353.	0.5	0
132	Stimulated Emission in Highly (0001)-Oriented ZnO Films Grown by Atomic Layer Deposition on the Amorphous Glass Substrates. <i>Journal of the Electrochemical Society</i> , 2010, 157, H879.	2.9	8
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