

Jer-Ren Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

5,568
citations

39
h-index

64
g-index

227
ext. papers

6,206
ext. citations

3.9
avg, IF

5.65
L-index

#	Paper	IF	Citations
217	Hierarchical nanotwins in Fe ₂₇ Co ₂₄ Ni ₂₃ Cr ₂₆ high-entropy alloy subjected to high strain-rate Hopkinson bar deformation. <i>Materials Characterization</i> , 2022 , 185, 111737	3.9	0
216	Verification of the ability of Cu to dissolve in BCC γ in a δ Solid Solution above 1200 °C and boosting γ nano-hardness in Cu-containing PHSS. <i>Scripta Materialia</i> , 2022 , 211, 114505	5.6	2
215	HR-STEM investigation of atomic lattice defects in different types of δ precipitates in creep-age forming Al ₇₀ Mg ₁₀ Cu aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 815, 141213	5.3	4
214	Electron work function: an indicative parameter towards a novel material design methodology. <i>Scientific Reports</i> , 2021 , 11, 11565	4.9	3
213	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	1.6	1
212	Investigation on the ballistic induced nanotwinning in the Mn-free Fe ₂₇ Co ₂₄ Ni ₂₃ Cr ₂₆ high entropy alloy plate. <i>Materials Chemistry and Physics</i> , 2021 , 270, 124707	4.4	3
211	Microstructural variation in fatigued interphase arrayed nano-precipitated Ti-microalloyed steel. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2393-2404	5.5	0
210	Large Delta T Thermal Cycling Induced Stress Accelerates Equilibrium and Transformation in Super DSS. <i>Crystals</i> , 2020 , 10, 962	2.3	1
209	Characteristics of Flakes Stacked Cr ₂ N with Many Domains in Super Duplex Stainless Steel. <i>Crystals</i> , 2020 , 10, 965	2.3	1
208	Atomic-resolution energy dispersive X-ray spectroscopy mapping of δ precipitates in an Al-Mg-Zn-Cu alloy. <i>Materials Characterization</i> , 2020 , 166, 110448	3.9	7
207	Microstrain and boundary misorientation evolution for recrystallized super DSS after deformation. <i>Materials Chemistry and Physics</i> , 2020 , 246, 122815	4.4	7
206	Molybdenum alloying in high-performance flat-rolled steel grades. <i>Advances in Manufacturing</i> , 2020 , 8, 15-34	2.7	14
205	Metallurgical Effects of Niobium in Dual Phase Steel. <i>Metals</i> , 2020 , 10, 504	2.3	4
204	Low-Temperature Physical Adsorption for the Nucleation of Sub-10 nm Al ₂ O ₃ Gate Stack on Top-Gated WS ₂ Transistors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1289-1294	4	0
203	Twin relationship in between the variant-pair of δ precipitates in the Al-Zn-Mg-Cu aluminium alloy. <i>MATEC Web of Conferences</i> , 2020 , 326, 01002	0.3	
202	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	2.5	6
201	Investigation of nanotwins in the bimodal-structured Fe ₂₂ Co ₂₂ Ni ₂₀ Cr ₂₂ Mn ₁₄ alloy subjected to high-strain-rate deformation at cryogenic temperatures. <i>Materials Characterization</i> , 2020 , 170, 110667	3.9	4

200	Microstructure Characterization of Massive Ferrite in Laser-Weldments of Interstitial-Free Steels. <i>Metals</i> , 2020 , 10, 898	2.3	2
199	Dielectric properties and reliability enhancement of atomic layer deposited thin films by in situ atomic layer substrate biasing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13025-13032	7.1	2
198	CVD growth of large-area InS atomic layers and device applications. <i>Nanoscale</i> , 2020 , 12, 9366-9374	7.7	3
197	In-situ transmission electron microscopy investigation of compressive deformation in interphase-precipitated carbide-strengthened β iron single-crystal nanopillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 406-415	5.3	5
196	Microstructure characterization and strengthening behavior of dual precipitation particles in Cu Ti microalloyed dual-phase steels. <i>Materials and Design</i> , 2019 , 166, 107613	8.1	7
195	Understanding Mechanical Properties of Nano-Grained Bainitic Steels from Multiscale Structural Analysis. <i>Metals</i> , 2019 , 9, 426	2.3	4
194	An atomic scale structural investigation of nanometre-sized β precipitates in the 7050 aluminium alloy. <i>Acta Materialia</i> , 2019 , 174, 351-368	8.4	55
193	Microstructure and mechanical behaviors of GPa-grade TRIP steels enabled by hot-rolling processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138005	5.3	11
192	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	8.1	10
191	Characterization of nano-sized precipitation and dislocations and the correlation with mechanical properties of a low alloy TRIP-aided steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138149	5.3	5
190	Thermal cycling induced stress-assisted sigma phase formation in super duplex stainless steel. <i>Materials and Design</i> , 2019 , 182, 108003	8.1	5
189	Intrinsic twin boundary of β MgZn ₂ precipitates in the AA7050 aluminium alloy. <i>Procedia Manufacturing</i> , 2019 , 37, 201-206	1.5	1
188	High-entropy CoCrFeMnNi alloy subjected to high-strain-rate compressive deformation. <i>Materials Characterization</i> , 2019 , 147, 193-198	3.9	21
187	Strain rate dependence on the evolution of microstructure and deformation mechanism during nanoscale deformation in low carbon-high Mn TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 116-123	5.3	15
186	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	2.8	1
185	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. <i>Acta Materialia</i> , 2018 , 149, 377-387	8.4	71
184	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	3.9	40
183	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	3.9	22

182	Fatigue behavior and microstructural characteristics of a duplex stainless steel weld metal under vibration-assisted welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 319-327	5.3	5
181	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	5.7	17
180	Precipitation behavior in bimodal ferrite grains in a low carbon Ti-V-bearing steel. <i>Scripta Materialia</i> , 2018 , 143, 103-107	5.6	10
179	Evolution of resistive switching mechanism through H ₂ O ₂ sensing by using TaO _x -based material in W/Al ₂ O ₃ /TaO _x /TiN structure. <i>Applied Surface Science</i> , 2018 , 433, 51-59	6.7	20
178	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	4.4	5
177	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	2.2	9
176	Impact of Intercritical Annealing on Retained Austenite and Toughness of a 460 MPa Grade Multiphase Heavy Gauge Plate Steel. <i>Steel Research International</i> , 2018 , 89, 1800006	1.6	1
175	Modeling of Precipitation Hardening during Coiling of Nb/Mo Steels. <i>Metals</i> , 2018 , 8, 758	2.3	4
174	Cross-Point Resistive Switching Memory and Urea Sensing by Using Annealed GdO _x Film in IrO _x /GdO _x /W Structure for Biomedical Applications. <i>Journal of the Electrochemical Society</i> , 2017 , 164, B127-B135	3.9	17
173	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	8.1	20
172	Densification, microstructure evolution, and microwave dielectric properties of Mg _{1-x} CaxZrTa ₂ O ₈ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2825-2831	6	15
171	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	2.3	22
170	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	1.9	19
169	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 702, 196-205	5.3	29
168	Microstructural evolutions of low carbon Nb/Mo-containing bainitic steels during high-temperature tempering. <i>Materials Characterization</i> , 2017 , 131, 298-305	3.9	31
167	Negative voltage modulated multi-level resistive switching by using a Cr/BaTiO ₃ /TiN structure and quantum conductance through evidence of HO sensing mechanism. <i>Scientific Reports</i> , 2017 , 7, 4735	4.9	24
166	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	7.6	73
165	Investigation of idiomorphic ferrite and allotriomorphic ferrite using electron backscatter diffraction technique. <i>Materials Science and Technology</i> , 2017 , 33, 537-545	1.5	5

164	Effects of interphase TiC precipitates on tensile properties and dislocation structures in a dual phase steel. <i>Materials Characterization</i> , 2017 , 123, 153-158	3.9	31
163	Severe deformation of nanostructured bainitic steel. <i>Procedia Engineering</i> , 2017 , 207, 1862-1867		3
162	Detection of pH and Enzyme-Free H ₂ O ₂ Sensing Mechanism by Using GdO _x Membrane in Electrolyte-Insulator-Semiconductor Structure. <i>Nanoscale Research Letters</i> , 2016 , 11, 434	5	6
161	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	1.5	2
160	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	3.9	32
159	Mechanical behavior and microstructural evolution of nanostructured bainite under high-strain rate deformation by Hopkinson bar. <i>Scripta Materialia</i> , 2016 , 115, 46-51	5.6	18
158	Investigation of photoluminescence dynamics in InGaN/GaN multiple quantum wells. <i>Materials Letters</i> , 2016 , 173, 170-173	3.3	6
157	Crystallographic analysis of lenticular martensite in Fe-0.0C-7Cr stainless steel by electron backscatter diffraction. <i>Materials Characterization</i> , 2016 , 113, 17-25	3.9	12
156	Highly Reliable Label-Free Detection of Urea/Glucose and Sensing Mechanism Using SiO ₂ and CdSe-ZnS Nanoparticles in Electrolyte-Insulator-Semiconductor Structure. <i>Journal of the Electrochemical Society</i> , 2016 , 163, B580-B587	3.9	16
155	In-situ transmission electron microscopy investigation of the deformation behavior of spinodal nanostructured Ferrite in a duplex stainless steel. <i>Scripta Materialia</i> , 2016 , 125, 44-48	5.6	24
154	Retarded phase transition by fluorine doping in Li-rich layered Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode material. <i>Journal of Power Sources</i> , 2015 , 283, 162-170	8.9	145
153	Microstructural characterization of Charpy-impact-tested nanostructured bainite. <i>Materials Characterization</i> , 2015 , 107, 63-69	3.9	32
152	Structural investigation of Ru/Pt nanocomposite films prepared by plasma-enhanced atomic layer depositions. <i>Micron</i> , 2015 , 74, 8-14	2.3	4
151	Improved resistive switching phenomena and mechanism using Cu-Al alloy in a new Cu:AlO _x /TaO _x /TiN structure. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 517-523	5.7	32
150	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. <i>Jom</i> , 2015 , 67, 2223-2235	2.1	43
149	Synergistic effect of austenitizing temperature and hot plastic deformation strain on the precipitation behavior in novel HSLA steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 145-154	5.3	11
148	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-i107.17		17
147	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	1.3	

146	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	0.5	
145	Structure of Ru/Pt Nanocomposite Films Fabricated by Plasma-Enhanced Atomic Layer Depositions. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1931-1932	0.5	
144	B12-O-18 Insight into the Deformation Behavior of Spinodal Nanostructured Ferrite in a 2205 Duplex Stainless Steel. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i27.2-i27	1.3	
143	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	4.9	41
142	Conductive and transparent multilayer films for low-temperature TiO ₂ /Ag/SiO ₂ electrodes by E-beam evaporation with IAD. <i>Nanoscale Research Letters</i> , 2014 , 9, 35	5	31
141	High energy spinel-structured cathode stabilized by layered materials for advanced lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 271, 604-613	8.9	33
140	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	2.3	19
139	NH ₄ F surface modification of Li-rich layered cathode materials. <i>Solid State Ionics</i> , 2014 , 264, 36-44	3.3	30
138	Investigation on optical and electrical properties of ZnO sandwich structure with metal interlayer. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FF05	1.4	3
137	Secondary hardened bainite. <i>Materials Science and Technology</i> , 2014 , 30, 1014-1023	1.5	25
136	Investigation of the Microstructure, Porosity, Adhesion, and Optical Properties of a WO ₃ Film Fabricated Using an E-Beam System With Ion Beam-Assisted Deposition. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	2
135	Stabilization of retained austenite by the two-step intercritical heat treatment and its effect on the toughness of a low alloyed steel. <i>Materials & Design</i> , 2014 , 59, 193-198		85
134	Stability of retained austenite in multi-phase microstructure during austempering and its effect on the ductility of a low carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 603, 69-75	5.3	83
133	Impact of AlO _x interfacial layer and switching mechanism in W/AlO _x /TaO _x /TiN RRAMs 2014 ,		1
132	Three phase crystallography and solute distribution analysis during residual austenite decomposition in tempered nanocrystalline bainitic steels. <i>Materials Characterization</i> , 2014 , 88, 15-20	3.9	16
131	Enhanced resistive switching phenomena using low-positive-voltage format and self-compliance IrO _x /GdO _x /W cross-point memories. <i>Nanoscale Research Letters</i> , 2014 , 9, 12	5	19
130	Structure and properties of hot-pressed lead-free (Ba _{0.85} Ca _{0.15})(Zr _{0.1} Ti _{0.9})O ₃ piezoelectric ceramics. <i>RSC Advances</i> , 2013 , 3, 20693	3.7	44
129	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	2.2	12

128	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	2.2	12
127	Structural analysis of Au/TiO ₂ thin films deposited on the glass substrate. <i>Applied Physics Letters</i> , 2013 , 102, 091603	3.4	10
126	The transition from interphase-precipitated carbides to fibrous carbides in a vanadium-containing medium-carbon steel. <i>Scripta Materialia</i> , 2013 , 68, 829-832	5.6	24
125	Tunable Optical and Structural Properties of Mg _x Zn _{1-x} O Films Prepared by In Situ Atomic Layer Doping Technique. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, P31-P35	2	2
124	Blue-shifted stimulated emission from ZnO films deposited on SiO ₂ by atomic layer deposition. <i>Materials Chemistry and Physics</i> , 2012 , 135, 88-93	4.4	2
123	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. <i>Scripta Materialia</i> , 2012 , 66, 1018-1023	5.6	68
122	The influence of Widmanstätten ferrite on yielding behavior of Nb-containing reinforcing steel bars. <i>Scripta Materialia</i> , 2012 , 67, 431-434	5.6	4
121	ZnO-based ultra-violet light emitting diodes and nanostructures fabricated by atomic layer deposition. <i>Semiconductor Science and Technology</i> , 2012 , 27, 074005	1.8	39
120	Formation polarity dependent improved resistive switching memory characteristics using nanoscale (1.3 nm) core-shell IrO _x nano-dots. <i>Nanoscale Research Letters</i> , 2012 , 7, 194	5	36
119	Twinned formation in weld metal of titanium bearing nano precipitated high strength steel. <i>Materials Chemistry and Physics</i> , 2012 , 136, 1103-1108	4.4	3
118	Unipolar Resistive Switching Memory Characteristics Using IrO _x /Al ₂ O ₃ /SiO ₂ /p-Si MIS Structure. <i>ECS Transactions</i> , 2012 , 45, 345-348	1	2
117	Particle Size and Morphology of Iridium Oxide Nanocrystals in Non-Volatile Memory Device. <i>Materials Transactions</i> , 2011 , 52, 331-335	1.3	3
116	Low-alloy duplex, directly quenched transformation-induced plasticity steel. <i>Scripta Materialia</i> , 2011 , 65, 604-607	5.6	30
115	Isothermal treatment influence on nanometer-size carbide precipitation of titanium-bearing low carbon steel. <i>Materials Letters</i> , 2011 , 65, 396-399	3.3	37
114	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	2.9	32
113	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	8.4	61
112	Interphase precipitation of nanometer-sized carbides in a titanium-molybdenum-bearing low-carbon steel. <i>Acta Materialia</i> , 2011 , 59, 6264-6274	8.4	204
111	Solution processable nanocarbon platform for polymer solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 3521	35.4	43

110	Interplay of three-dimensional morphologies and photocarrier dynamics of polymer/TiO ₂ bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11614-20	16.4	64
109	Dynamic strain aging in low cycle fatigue of duplex titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4381-4389	5.3	20
108	Microtwin formation in the β phase of duplex titanium alloys affected by strain rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2271-2276	5.3	16
107	Study on sandwich structure of the transparent conducting oxide films prepared by electron beam evaporation at room temperature 2011 ,		1
106	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	3.9	2
105	P-Type ZnO:P Films Fabricated by Atomic Layer Deposition and Thermal Processing. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H516	3.9	11
104	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
103	Temperature-Dependent Physical and Memory Characteristics of Atomic-Layer-Deposited RuO _x Metal Nanocrystal Capacitors. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-12	3.2	6
102	Electron microscopy investigations of V defects in multiple InGa _N /Ga _N quantum wells and InGa _N quantum dots. <i>Journal of Microscopy</i> , 2010 , 237, 275-81	1.9	2
101	The Structure and Ultraviolet Electroluminescence of n-ZnO-SiO ₂ -ZnO Nanocomposite/p-GaN Heterojunction LED. <i>ECS Transactions</i> , 2010 , 33, 267-275	1	
100	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	3.9	7
99	Amplified Spontaneous Emission From ZnO in n-ZnO/p-GaN Heterojunction Light-Emitting Diodes With an External-Feedback Reflector. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 248-250	2.2	6
98	Orientation relationship transition of nanometre sized interphase precipitated TiC carbides in Ti bearing steel. <i>Materials Science and Technology</i> , 2010 , 26, 421-430	1.5	48
97	Materials science and engineering at National Taiwan University. <i>International Heat Treatment and Surface Engineering</i> , 2010 , 4, 48-49		
96	Fabrication of ZnO Nanopillars by Atomic Layer Deposition. <i>Materials Transactions</i> , 2010 , 51, 253-255	1.3	8
95	Structure and Electro-Optical Properties of Thin Films Grown by Alternate Atomic Layer Deposition of ZnO and Al ₂ O ₃ on the Sapphire Substrate. <i>Materials Transactions</i> , 2010 , 51, 219-226	1.3	15
94	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	1.9	31
93	Structure and Ultraviolet Electroluminescence of n-ZnO/SiO ₂ -ZnO Nanocomposite/p-GaN Heterostructure Light-Emitting Diodes. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 2195-2202	2.9	11

92	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	2	34
91	Inducement of bainite and carbide transformation from retained austenite based on a high strain rate. <i>Scripta Materialia</i> , 2010 , 62, 372-375	5.6	2
90	Substructures of martensite in Fe ₁₇ Cr stainless steel. <i>Scripta Materialia</i> , 2010 , 62, 670-673	5.6	23
89	Temperature-dependent photoluminescence of arsenic-doped Si nanocrystals. <i>Journal of Luminescence</i> , 2010 , 130, 1485-1488	3.8	4
88	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	2.2	18
87	Physical and Memory Characteristics of Atomic-Layer-Deposited High- κ Hafnium/Aluminum-Oxide Nanocrystal Capacitors with Iridium-Oxide Metal Gate. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 05DF02	1.4	7
86	Characterization of interphase-precipitated nanometer-sized carbides in a TiMo-bearing steel. <i>Scripta Materialia</i> , 2009 , 61, 616-619	5.6	88
85	Simulated heat affected zone in ASTM A533-B steel plates under low heat inputs. <i>Materials Chemistry and Physics</i> , 2009 , 117, 471-477	4.4	9
84	Suppression of phase separation in InGaN layers grown on lattice-matched ZnO substrates. <i>Journal of Crystal Growth</i> , 2009 , 311, 4628-4631	1.6	20
83	The variation of beta phase morphology after creep and negative creep for duplex titanium alloys. <i>Journal of Materials Science</i> , 2009 , 44, 408-413	4.3	4
82	Cross-sectional observation of the intermetallic phase in a galvanized steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 499, 45-48	5.3	10
81	Precipitation hardening of high-strength low-alloy steels by nanometer-sized carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 499, 162-166	5.3	181
80	ZnO quantum dots embedded in a SiO ₂ nanoparticle layer grown by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 88-90	2.5	14
79	An efficient Si light-emitting diode based on an n-ZnO/SiO ₂ -Si nanocrystals-SiO ₂ /p-Si heterostructure. <i>Nanotechnology</i> , 2009 , 20, 445202	3.4	15
78	Effects of dynamic impact on mechanical properties and microstructure of special stainless steel weldments. <i>Materials Chemistry and Physics</i> , 2008 , 111, 172-179	4.4	8
77	Ultraviolet Electroluminescence From n-ZnO/BiO ₂ /ZnO Nanocomposite/p-GaN Heterojunction Light-Emitting Diodes at Forward and Reverse Bias. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1772-1774	2.2	35
76	A Transmission Electron Microscopy Observation of Dislocations in GaN Grown on (0001) Sapphire by Metal Organic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7998-8002	1.4	12
75	STRUCTURAL AND OPTICAL PROPERTIES OF InGaN/GaN MULTIPLE QUANTUM WELL LIGHT EMITTING DIODES GROWN BY METALORGANIC CHEMICAL VAPOR DEPOSITION 2008 , 57-88		

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