Jer-Ren Yang

List of Publications by Citations

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	The effect of high-temperature exposure on the microstructural stability and toughness property in a 2205 duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 338, 259-270	5.3	241
216	Aging reactions in a 17-4 PH stainless steel. *Materials Chemistry and Physics*, **2002**, 74, 134-142	4.4	233
215	Effects of solution treatment and continuous cooling on □phase precipitation in a 2205 duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 311, 28-41	5.3	212
214	Interphase precipitation of nanometer-sized carbides in a titanium□molybdenum-bearing low-carbon steel. *Acta Materialia*, **2011**, 59, 6264-6274	8.4	204
213	Precipitation hardening of high-strength low-alloy steels by nanometer-sized carbides. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 499, 162-166	5.3	181
212	Mechanical stabilisation of austenite. *Materials Science and Technology*, **2006**, 22, 641-644	1.5	169
211	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. *Journal of Power Sources*, **2015**, 283, 162-170	8.9	145
210	Structure and formation mechanism of V defects in multiple InGaN□GaN quantum well layers. *Journal of Applied Physics*, **2006**, 99, 073505	2.5	115
209	The low-temperature aging embrittlement in a 2205 duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 379, 119-132	5.3	115
208	Quantum Confinement Effect in Diamond Nanocrystals Studied by X-Ray-Absorption Spectroscopy. *Physical Review Letters*, **1999**, 82, 5377-5380	7.4	103
207	Characterization of interphase-precipitated nanometer-sized carbides in a Ti□Mo-bearing steel. *Scripta Materialia*, **2009**, 61, 616-619	5.6	88
206	Microstructural characterization of simulated heat affected zone in a nitrogen-containing 2205 duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 338, 166-181	5.3	87
205	Stabilization of retained austenite by the two-step intercritical heat treatment and its effect on the toughness of a low alloyed steel. *Materials & Design*, **2014**, 59, 193-198		85
204	Stability of retained austenite in multi-phase microstructure during austempering and its effect on the ductility of a low carbon steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 603, 69-75	5.3	83
203	Phase transformation in AISI 410 stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 332, 1-10	5.3	79
202	A unified constitutive model for asymmetric tension and compression creep-ageing behaviour of naturally aged Al-Cu-Li alloy. *International Journal of Plasticity*, **2017**, 89, 130-149	7.6	73
201	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. *Acta Materialia*, **2018**, 149, 377-387	8.4	71

200	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. *Scripta Materialia*, **2012**, 66, 1018-1023	5.6	68
199	Interplay of three-dimensional morphologies and photocarrier dynamics of polymer/TiO2 bulk heterojunction solar cells. *Journal of the American Chemical Society*, **2011**, 133, 11614-20	16.4	64
198	Formation and structure of inverted hexagonal pyramid defects in multiple quantum wells InGaN/GaN. *Applied Physics Letters*, **2003**, 82, 718-720	3.4	63
197	Complementary use of transmission electron microscopy and atom probe tomography for the examination of plastic accommodation in nanocrystalline bainitic steels. *Acta Materialia*, **2011**, 59, 6117-6123	8.4	61
196	The effect of compressive deformation of austenite on the bainitic ferrite transformation in Fe?Mn?Si?C steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 278, 278-291	5.3	61
195	An atomic scale structural investigation of nanometre-sized precipitates in the 7050 aluminium alloy. *Acta Materialia*, **2019**, 174, 351-368	8.4	55
194	Nanostructures and carrier localization behaviors of green-luminescence InGaN/GaN quantum-well structures of various silicon-doping conditions. *Applied Physics Letters*, **2004**, 84, 2506-2508	3.4	53
193	Orientation relationship transition of nanometre sized interphase precipitated TiC carbides in Ti bearing steel. *Materials Science and Technology*, **2010**, 26, 421-430	1.5	48
192	Atomic-scale strain field and In atom distribution in multiple quantum wells InGaN/GaN. *Applied Physics Letters*, **2003**, 82, 715-717	3.4	47
191	Structure and properties of hot-pressed lead-free (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3 piezoelectric ceramics. *RSC Advances*, **2013**, 3, 20693	3.7	44
190	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. *Jom*, **2015**, 67, 2223-2235	2.1	43
189	Solution processable nanocarbon platform for polymer solar cells. *Energy and Environmental Science*, **2011**, 4, 3521	35.4	43
188	Microstructures and fatigue crack growth of EH36 TMCP steel weldments. *International Journal of Fatigue*, **1999**, 21, 857-864	5	43
187	Effects of chemical composition, rolling and cooling conditions on the amount of martensite/austenite (M/A) constituent formation in low carbon bainitic steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1992**, 154, 43-49	5.3	42
186	Orientation relationships between adjacent plates of acicular ferrite in steel weld deposits. *Materials Science and Technology*, **1989**, 5, 93-97	1.5	42
185	Ultralow threading dislocation density in GaN epilayer on near-strain-free GaN compliant buffer layer and its applications in hetero-epitaxial LEDs. *Scientific Reports*, **2015**, 5, 13671	4.9	41
184	The effect of finish rolling temperature and tempering on the microstructure, mechanical properties and dislocation density of direct-quenched steel. *Materials Characterization*, **2018**, 139, 1-10	3.9	40
183	Charge storage characteristics of atomic layer deposited RuOx nanocrystals. *Applied Physics Letters*, **2007**, 90, 253108	3.4	40

182	Growth of highly transparent nanocrystalline diamond films and a spectroscopic study of the growth. *Journal of Applied Physics*, **2001**, 89, 753-759	2.5	40
181	ZnO-based ultra-violet light emitting diodes and nanostructures fabricated by atomic layer deposition. *Semiconductor Science and Technology*, **2012**, 27, 074005	1.8	39
180	Gamma (□)phase transformation in pulsed GTAW weld metal of duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 420, 26-33	5.3	39
179	Acicular ferrite transformation in alloy-steel weld metals. *Journal of Materials Science*, **1991**, 26, 839-845	4.3	39
178	The effect of prior compressive deformation of austenite on toughness property in an ultra-low carbon bainitic steel. *Materials Chemistry and Physics*, **2001**, 69, 113-124	4.4	38
177	Mechanical Stabilization of Austenite against Bainitic Reaction in Fe–Mn–Si–C Bainitic Steel. *Materials Transactions, JIM*, **1996**, 37, 579-585		38
176	Isothermal treatment influence on nanometer-size carbide precipitation of titanium-bearing low carbon steel. *Materials Letters*, **2011**, 65, 396-399	3.3	37
175	Formation polarity dependent improved resistive switching memory characteristics using nanoscale (1.3 nm) core-shell IrOx nano-dots. *Nanoscale Research Letters*, **2012**, 7, 194	5	36
174	Ultraviolet Electroluminescence From n-ZnO□SiO$_{2}$□ZnO Nanocomposite/p-GaN Heterojunction Light-Emitting Diodes at Forward and Reverse Bias. *IEEE Photonics Technology Letters*, **2008**, 20, 1772-1774	2.2	35
173	Low-cycle fatigue-induced martensitic transformation in SAF 2205 duplex stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 398, 349-359	5.3	35
172	Characterisation of severely deformed austenitic stainless steel wire. *Materials Science and Technology*, **2005**, 21, 1323-1328	1.5	35
171	UV Electroluminescence and Structure of n-ZnO/p-GaN Heterojunction LEDs Grown by Atomic Layer Deposition. *IEEE Journal of Quantum Electronics*, **2010**, 46, 265-271	2	34
170	High energy spinel-structured cathode stabilized by layered materials for advanced lithium-ion batteries. *Journal of Power Sources*, **2014**, 271, 604-613	8.9	33
169	Microstructural characterization of Charpy-impact-tested nanostructured bainite. *Materials Characterization*, **2015**, 107, 63-69	3.9	32
168	Improved resistive switching phenomena and mechanism using Cu-Al alloy in a new Cu:AlOx/TaOx/TiN structure. *Journal of Alloys and Compounds*, **2015**, 637, 517-523	5.7	32
167	Microstructural characterization and strengthening behavior of nanometer sized carbides in Ti□Mo microalloyed steels during continuous cooling process. *Materials Characterization*, **2016**, 114, 18-29	3.9	32
166	White-Light Electroluminescence From n-ZnO/p-GaN Heterojunction Light-Emitting Diodes at Reverse Breakdown Bias. *IEEE Transactions on Electron Devices*, **2011**, 58, 3970-3975	2.9	32
165	Conductive and transparent multilayer films for low-temperature TiO2/Ag/SiO2 electrodes by E-beam evaporation with IAD. *Nanoscale Research Letters*, **2014**, 9, 35	5	31

164	Microstructural evolutions of low carbon Nb/Mo-containing bainitic steels during high-temperature tempering. *Materials Characterization*, **2017**, 131, 298-305	3.9	31
163	Effects of interphase TiC precipitates on tensile properties and dislocation structures in a dual phase steel. *Materials Characterization*, **2017**, 123, 153-158	3.9	31
162	ZnO-based heterojunction light-emitting diodes on p-SiC(4H) grown by atomic layer deposition. *Applied Physics B: Lasers and Optics*, **2010**, 98, 767-772	1.9	31
161	Inverse effect of strain rate on mechanical behavior and phase transformation of superaustenitic stainless steel. *Scripta Materialia*, **2007**, 56, 717-720	5.6	31
160	NH4F surface modification of Li-rich layered cathode materials. *Solid State Ionics*, **2014**, 264, 36-44	3.3	30
159	Low-alloy duplex, directly quenched transformation-induced plasticity steel. *Scripta Materialia*, **2011**, 65, 604-607	5.6	30
158	Continuous heating transformation of bainite to austenite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 131, 99-113	5.3	30
157	Influence of welding pass on microstructure and toughness in the reheated zone of multi-pass weld metal of 550 MPa offshore engineering steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 702, 196-205	5.3	29
156	Influence of acicular ferrite and bainite microstructures on toughness for an ultra-low-carbon alloy steel weld metal. *Journal of Materials Science Letters*, **1993**, 12, 1290-1293		29
155	Microstructural examination of 2.25Cr?1Mo Steel Steam pipes after extended service. *Materials Characterization*, **1993**, 30, 75-88	3.9	29
154	Effect of Compressive Deformation on the Transformation Behavior of an Ultra-Low-Carbon Bainitic Steel. *Materials Transactions, JIM*, **1993**, 34, 658-668		27
153	Optical and structural properties of InGaN/GaN multiple quantum well structure grown by metalorganic chemical vapor deposition. *Thin Solid Films*, **2006**, 498, 123-127	2.2	26
152	Secondary hardened bainite. *Materials Science and Technology*, **2014**, 30, 1014-1023	1.5	25
151	The Influence of Plastic Deformation and Cooling Rates on the Microstructural Constituents of an Ultra-low Carbon Bainitic Steel.. *ISIJ International*, **1995**, 35, 1013-1019	1.7	25
150	Negative voltage modulated multi-level resistive switching by using a Cr/BaTiO/TiN structure and quantum conductance through evidence of HO sensing mechanism. *Scientific Reports*, **2017**, 7, 4735	4.9	24
149	The transition from interphase-precipitated carbides to fibrous carbides in a vanadium-containing medium-carbon steel. *Scripta Materialia*, **2013**, 68, 829-832	5.6	24
148	Highly transparent nano-crystalline diamond films via substrate pretreatment and methane fraction optimization. *Thin Solid Films*, **1998**, 332, 34-39	2.2	24
147	In-situ transmission electron microscopy investigation of the deformation behavior of spinodal nanostructured Ferrite in a duplex stainless steel. *Scripta Materialia*, **2016**, 125, 44-48	5.6	24

146	Substructures of martensite in Fe□C□7Cr stainless steel. *Scripta Materialia*, **2010**, 62, 670-673	5.6	23
145	Phase quantification in low carbon Nb-Mo bearing steel by electron backscatter diffraction technique coupled with kernel average misorientation. *Materials Characterization*, **2018**, 139, 49-58	3.9	22
144	Effect of Boron on the Strength and Toughness of Direct-Quenched Low-Carbon Niobium Bearing Ultra-High-Strength Martensitic Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 5344-5356	2.3	22
143	The effect of stress on the Widmanst□tten ferrite transformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 223, 158-167	5.3	22
142	Direct determination of atomic structure in multiple quantum wells InGaN/GaN. *Applied Physics Letters*, **2002**, 80, 761-762	3.4	22
141	The development of ultra-low-carbon bainitic steels. *Materials & Design*, **1992**, 13, 335-338		22
140	The effects of rolling processes on the microstructure and mechanical properties of ultralow carbon bainitic steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1992**, 157, 29-36	5.3	22
139	Growth, characterization, optical and X-ray absorption studies of nano-crystalline diamond films. *Diamond and Related Materials*, **2000**, 9, 877-882	3.5	21
138	Effects of substrate pretreatment and methane fraction on the optical transparency of nanocrystalline diamond thin films. *Journal of Materials Research*, **1998**, 13, 1769-1773	2.5	21
137	High-entropy CoCrFeMnNi alloy subjected to high-strain-rate compressive deformation. *Materials Characterization*, **2019**, 147, 193-198	3.9	21
136	Effect of Cr and Al additions on the development of interphase-precipitated carbides strengthened dual-phase Ti-bearing steels. *Materials and Design*, **2017**, 119, 319-325	8.1	20
135	Evolution of resistive switching mechanism through H2O2 sensing by using TaOx-based material in W/Al2O3/TaOx/TiN structure. *Applied Surface Science*, **2018**, 433, 51-59	6.7	20
134	Suppression of phase separation in InGaN layers grown on lattice-matched ZnO substrates. *Journal of Crystal Growth*, **2009**, 311, 4628-4631	1.6	20
133	Dynamic strain aging in low cycle fatigue of duplex titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 4381-4389	5.3	20
132	Cyclic deformation and phase transformation of 6Mo superaustenitic stainless steel. *Metals and Materials International*, **2007**, 13, 275-283	2.4	20
131	The effect of compressive deformation of austenite on the Widmanst□tten ferrite transformation in Fe□Mn□Si□C steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 264, 139-150	5.3	20
130	Superledge Model for Interphase Precipitation During Austenite-to-Ferrite Transformation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 5351-5361	2.3	19
129	Effect of interpass temperature on the microstructure and mechanical properties of multi-pass weld metal in a 550-MPa-grade offshore engineering steel. *Welding in the World, Le Soudage Dans Le Monde*, **2017**, 61, 1155-1168	1.9	19

128	Enhanced resistive switching phenomena using low-positive-voltage format and self-compliance IrOx/GdOx/W cross-point memories. *Nanoscale Research Letters*, **2014**, 9, 12	5	19
127	Mechanical behavior and microstructural evolution of nanostructured bainite under high-strain rate deformation by Hopkinson bar. *Scripta Materialia*, **2016**, 115, 46-51	5.6	18
126	Structure and stimulated emission of a high-quality zinc oxide epilayer grown by atomic layer deposition on the sapphire substrate. *Thin Solid Films*, **2010**, 519, 536-540	2.2	18
125	Sympathetic nucleation of austenite in a Fe□22Cr□5Ni duplex stainless steel. *Scripta Materialia*, **2007**, 56, 673-676	5.6	18
124	The effect of strain ratio on morphology of dislocation in low cycle fatigued SAF 2205 DSS. *Materials Chemistry and Physics*, **2006**, 98, 103-110	4.4	18
123	Cross-Point Resistive Switching Memory and Urea Sensing by Using Annealed GdOxFilm in IrOx/GdOx/W Structure for Biomedical Applications. *Journal of the Electrochemical Society*, **2017**, 164, B127-B135	3.9	17
122	Crystallographic examination of the interaction between texture evolution, mechanically induced martensitic transformation and twinning in nanostructured bainite. *Journal of Alloys and Compounds*, **2018**, 752, 505-519	5.7	17
121	Three phase crystallography and solute distribution analysis during residual austenite decomposition in tempered nanocrystalline bainitic steels. *Materials Characterization*, **2014**, 88, 15-20	3.9	16
120	Microtwin formation in the □phase of duplex titanium alloys affected by strain rate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 2271-2276	5.3	16
119	Highly Reliable Label-Free Detection of Urea/Glucose and Sensing Mechanism Using SiO2and CdSe-ZnS Nanoparticles in Electrolyte-Insulator-Semiconductor Structure. *Journal of the Electrochemical Society*, **2016**, 163, B580-B587	3.9	16
118	Densification, microstructure evolution, and microwave dielectric properties of Mg1-xCaxZrTa2O8 ceramics. *Journal of the European Ceramic Society*, **2017**, 37, 2825-2831	6	15
117	An efficient Si light-emitting diode based on an n- ZnO/SiO2-Si nanocrystals-SiO2/p-Si heterostructure. *Nanotechnology*, **2009**, 20, 445202	3.4	15
116	Structure and Electro-Optical Properties of Thin Films Grown by Alternate Atomic Layer Deposition of ZnO and Al2O3 on the Sapphire Substrate. *Materials Transactions*, **2010**, 51, 219-226	1.3	15
115	Study of carrier localization in InGaN/GaN quantum well blue-light-emitting diode structures. *Journal of Crystal Growth*, **2006**, 287, 354-358	1.6	15
114	Improvements of InGaN□GaN quantum-well interfaces and radiative efficiency with InN interfacial layers. *Applied Physics Letters*, **2004**, 84, 5422-5424	3.4	15
113	Strain rate dependence on the evolution of microstructure and deformation mechanism during nanoscale deformation in low carbon-high Mn TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 742, 116-123	5.3	15
112	Molybdenum alloying in high-performance flat-rolled steel grades. *Advances in Manufacturing*, **2020**, 8, 15-34	2.7	14
111	ZnO quantum dots embedded in a SiO2 nanoparticle layer grown by atomic layer deposition. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 88-90	2.5	14

110	Microstructural degeneration of simulated heat-affected zone in 2.25Cr1Mo steel during high-temperature exposure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 340, 15-32	5.3	14
109	Observation of V Defects in Multiple InGaN/GaN Quantum Well Layers. *Materials Transactions*, **2007**, 48, 894-898	1.3	13
108	Microstructural and electrical properties of epitaxial PtSi/p-Si(100) co-deposited under ultrahigh vacuum. *Journal of Applied Physics*, **1993**, 74, 6251-6255	2.5	13
107	Reaustenitization experiments on some high-strength steel weld deposits. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1989**, 118, 155-170	5.3	13
106	Crystallographic analysis of lenticular martensite in Fe1.0C17Cr stainless steel by electron backscatter diffraction. *Materials Characterization*, **2016**, 113, 17-25	3.9	12
105	Optical and structural studies of dual wavelength InGaN/GaN tunnel-injection light emitting diodes grown by metalorganic chemical vapor deposition. *Thin Solid Films*, **2013**, 529, 269-274	2.2	12
104	Structural investigation of ZnO:Al films deposited on the Si substrates by radio frequency magnetron sputtering. *Thin Solid Films*, **2013**, 545, 183-187	2.2	12
103	Highly transparent nano-crystalline diamond films grown by microwave CVD. *Solid State Communications*, **1998**, 107, 301-305	1.6	12
102	A Transmission Electron Microscopy Observation of Dislocations in GaN Grown on (0001) Sapphire by Metal Organic Chemical Vapor Deposition. *Japanese Journal of Applied Physics*, **2008**, 47, 7998-8002	1.4	12
101	Structural and compositional analyses of a strained AlGaN/GaN superlattice. *Journal of Applied Physics*, **2006**, 100, 013110	2.5	12
100	Effects of silicon doping on the nanostructures of InGaN/GaN quantum wells. *Journal of Crystal Growth*, **2005**, 279, 55-64	1.6	12
99	Microstructure and mechanical behaviors of GPa-grade TRIP steels enabled by hot-rolling processes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 761, 138005	5.3	11
98	Synergistic effect of austenitizing temperature and hot plastic deformation strain on the precipitation behavior in novel HSLA steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 639, 145-154	5.3	11
97	P-Type ZnO:P Films Fabricated by Atomic Layer Deposition and Thermal Processing. *Journal of the Electrochemical Society*, **2011**, 158, H516	3.9	11
96	Structure and Ultraviolet Electroluminescence of $n hbox{-ZnO/SiO}_{2}hbox{-ZnO}$ Nanocomposite/p -GaN Heterostructure Light-Emitting Diodes. *IEEE Transactions on Electron Devices*, **2010**, 57, 2195-2202	2.9	11
95	Martensitic transformations in AISI 440C stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 276-280	5.3	11
94	Mapping of multiple-quantum-well layers and structure of V defects in InGaN/GaN diodes. *Applied Physics Letters*, **2004**, 84, 2271-2273	3.4	11
93	Dual ferrite-martensite treatments of a high-strength low-alloy ASTM A588 steel. *Journal of Materials Science*, **1991**, 26, 889-898	4.3	11

92	Microstructural mechanisms controlling the mechanical behaviour of ultrafine grained martensite/austenite microstructures in a metastable stainless steel. *Materials and Design*, **2019**, 181, 107922	8.1	10
91	Precipitation behavior in bimodal ferrite grains in a low carbon Ti-V-bearing steel. *Scripta Materialia* , **2018**, 143, 103-107	5.6	10
90	Structural analysis of Au/TiO2 thin films deposited on the glass substrate. *Applied Physics Letters*, **2013**, 102, 091603	3.4	10
89	Cross-sectional observation of the intermetallic phase in a galvannealed steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 499, 45-48	5.3	10
88	Morphological evolution of GP zones and nanometer-sized precipitates in the AA2050 aluminium alloy. *International Journal of Lightweight Materials and Manufacture*, **2018**, 1, 142-156	2.2	9
87	Simulated heat affected zone in ASTM A533-B steel plates under low heat inputs. *Materials Chemistry and Physics*, **2009**, 117, 471-477	4.4	9
86	Low Voltage Operation of High-□HfO2/TiO2/Al2O3Single Quantum Well for Nanoscale Flash Memory Device Applications. *Japanese Journal of Applied Physics*, **2008**, 47, 1818-1821	1.4	9
85	HfO2/HfAlO/HfO2Nanolaminate Charge Trapping Layers for High-Performance Nonvolatile Memory Device Applications. *Japanese Journal of Applied Physics*, **2007**, 46, 1803-1807	1.4	9
84	Fabrication of ZnO Nanopillars by Atomic Layer Deposition. *Materials Transactions*, **2010**, 51, 253-255	1.3	8
83	Effects of dynamic impact on mechanical properties and microstructure of special stainless steel weldments. *Materials Chemistry and Physics*, **2008**, 111, 172-179	4.4	8
82	Nano-structure study of ZnO thin films on sapphire grown with different temperature conditions. *Journal of Crystal Growth*, **2006**, 293, 344-350	1.6	8
81	Microstructural evolution of simulated heat-affected zone in modified 2.25Cr-1Mo steel during high temperature exposure. *Journal of Materials Science*, **2003**, 38, 2373-2391	4.3	8
80	Determination of thickness and lattice distortion for the individual layer of strained Al0.14Ga0.86N□GaN superlattice by high-angle annular dark-field scanning transmission electron microscopy. *Applied Physics Letters*, **2005**, 87, 031914	3.4	8
79	Age Hardening in Martensitic/Bainitic Matrices in a Copper-Bearing Steel. *Materials Transactions, JIM*, **2000**, 41, 1312-1321		8
78	Microstructure characterization and strengthening behavior of dual precipitation particles in Cu Ti microalloyed dual-phase steels. *Materials and Design*, **2019**, 166, 107613	8.1	7
77	Atomic-resolution energy dispersive X-ray spectroscopy mapping of □precipitates in an Al-Mg-Zn-Cu alloy. *Materials Characterization*, **2020**, 166, 110448	3.9	7
76	Microstrain and boundary misorientation evolution for recrystallized super DSS after deformation. *Materials Chemistry and Physics*, **2020**, 246, 122815	4.4	7
75	Stimulated Emission in Highly (0001)-Oriented ZnO Films Grown by Atomic Layer Deposition on the Amorphous Glass Substrates. *Journal of the Electrochemical Society*, **2010**, 157, H879	3.9	7

74	Physical and Memory Characteristics of Atomic-Layer-Deposited High-Hafnium Aluminum-Oxide Nanocrystal Capacitors with Iridium-Oxide Metal Gate. *Japanese Journal of Applied Physics*, **2009**, 48, 05DF02	1.4	7
73	Effect of Retained Austenite on GPM A30 High-Speed Steel. *Journal of Materials Engineering and Performance*, **2007**, 16, 500-507	1.6	7
72	Structural analysis of strained p-type AlGaN GaN superlattice. *Journal of Applied Physics*, **2007**, 101, 023521	2.5	7
71	Detection of pH and Enzyme-Free H2O2 Sensing Mechanism by Using GdO x Membrane in Electrolyte-Insulator-Semiconductor Structure. *Nanoscale Research Letters*, **2016**, 11, 434	5	6
70	Investigation of photoluminescence dynamics in InGaN/GaN multiple quantum wells. *Materials Letters*, **2016**, 173, 170-173	3.3	6
69	Amplified Spontaneous Emission From ZnO in n-ZnO/p-GaN Heterojunction Light-Emitting Diodes With an External-Feedback Reflector. *IEEE Photonics Technology Letters*, **2010**, 22, 248-250	2.2	6
68	Temperature-Dependent Physical and Memory Characteristics of Atomic-Layer-DepositedRuOxMetal Nanocrystal Capacitors. *Journal of Nanomaterials*, **2011**, 2011, 1-12	3.2	6
67	Cross-sectional transmission electron microscopy of ultra-fine wires of AISI 316L stainless steel. *Philosophical Magazine*, **2006**, 86, 237-251	1.6	6
66	High-Resolution Scanning Electron Microscopy Observation of GaN/AlGaN Strained-Layer Superstructures in GaN-Based Violet Laser Diodes. *Japanese Journal of Applied Physics*, **2004**, 43, 968-969	1.4	6
65	Acicular ferrite transformation in deformed austenite of an alloy-steel weld metal. *Journal of Materials Science*, **1995**, 30, 5036-5041	4.3	6
64	A novel technique for developing a dual-phase steel with a lower strength difference between ferrite and martensite. *Materials Today Communications*, **2020**, 23, 100895	2.5	6
63	In-situ transmission electron microscopy investigation of compressive deformation in interphase-precipitated carbide-strengthened iron single-crystal nanopillars. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 746, 406-415	5.3	5
62	Fatigue behavior and microstructural characteristics of a duplex stainless steel weld metal under vibration-assisted welding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 721, 319-327	5.3	5
61	Size effect and strain induced double twin by nanoindentation in DSS weld metal of vibration-assisted GTAW. *Materials Chemistry and Physics*, **2018**, 219, 40-50	4.4	5
60	Characterization of nano-sized precipitation and dislocations and the correlation with mechanical properties of a low alloy TRIP-aided steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 763, 138149	5.3	5
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