Sun Ig Hong

List of Publications by Year in Descending Order

220 papers	5,299 citations	39 h-index	64 g-index
227 ext. papers	6,195 ext. citations	3.5 avg, IF	6.22 L-index

#	Paper	IF	Citations
220	Toward excellent tensile properties of nitrogen-doped CoCrFeMnNi high-entropy alloy at room and cryogenic temperatures. *Journal of Alloys and Compounds*, **2022**, 897, 163217	5.7	6
219	Hierarchical structured as-cast CrFeNiMn0.5Cu0.5 high entropy alloy with excellent tensile strength/ductility properties. *Scripta Materialia*, **2022**, 210, 114473	5.6	9
218	Data supporting the hierarchically activated deformation mechanisms to form ultra-fine grain microstructure in carbon containing FeMnCoCr twinning induced plasticity high entropy alloy.. *Data in Brief*, **2022**, 42, 108052	1.2	0
217	Effects of carbon and molybdenum on the nanostructural evolution and strength/ductility trade-off in Fe40Mn40Co10Cr10 high-entropy alloys. *Journal of Alloys and Compounds*, **2022**, 165108	5.7	4
216	Formation Mechanism of High-Entropy Spinel Thin Film and its Mechanical and Magnetic Properties: Linking High-Entropy Alloy to High-Entropy Ceramic. *Applied Surface Science*, **2021**, 151719	6.7	4
215	Investigation of PEG directed SbWO for dyes removal from wastewater. *Chemosphere*, **2021**, 291, 132678	8.4	1
214	Effect of residual nanocrystals on thermal stability and mechanical properties of metalloid-containing amorphous alloys. *Materials Characterization*, **2021**, 173, 110914	3.9	2
213	Comparative Insight into the Interfacial Phase Evolutions during Solution Treatment of Dissimilar Friction Stir Welded AA2198-AA7475 and AA2198-AA6013 Aluminum Sheets. *Materials*, **2021**, 14,	3.5	8
212	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. *Materials Chemistry and Physics*, **2021**, 262, 124265	4.4	17
211	Interface strengthening of a roll-bonded two-ply Al/Cu sheet by short annealing. *Materials Characterization*, **2021**, 174, 111021	3.9	6
210	Iron doped vanadium sulfide anemone like nanorod structure for electrochemical water oxidation. *Current Applied Physics*, **2021**, 21, 192-198	2.6	0
209	Microstructure evolution and mechanical properties of (CoCrNi)90(AlTiZr)5(CuFeMo)5 multicomponent alloy: A pathway through multicomponent alloys toward new superalloys. *Journal of Alloys and Compounds*, **2021**, 860, 158412	5.7	11
208	Heterostructured SmCoO3/rGO composite for high-energy hybrid supercapacitors. *Carbon*, **2021**, 172, 613-623	10.4	20
207	Modifications of partial-dislocation-induced defects and strength/ductility enhancement in metastable high entropy alloys through nitrogen doping. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 803, 140684	5.3	11
206	Data on the microstructure and deformation of FeMnCrCoN supporting the modifications of partial-dislocation-induced defects (PDIDs) and strength/ductility enhancement in metastable high entropy alloys. *Data in Brief*, **2021**, 34, 106713	1.2	6
205	Hierarchically activated deformation mechanisms to form ultra-fine grain microstructure in carbon containing FeMnCoCr twinning induced plasticity high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 824, 141803	5.3	5
204	High strength dual fcc phase CoCuFeMnNi high-entropy alloy wires with dislocation wall boundaries stabilized by phase boundaries. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 825, 141875	5.3	15

203	Designing rational and cheapest SeO2 electrocatalyst for long stable water splitting process. *Journal of Physics and Chemistry of Solids*, **2020**, 145, 109544	3.9	8
202	Short-range order strengthening in boron-doped high-entropy alloys for cryogenic applications. *Acta Materialia*, **2020**, 194, 366-377	8.4	43
201	Ni doped Bi2WO6 for electrochemical OER activity. *International Journal of Hydrogen Energy*, **2020**, 45, 18859-18866	6.7	12
200	Correlation between mechanical properties and thermodynamic parameters of dual-fcc-phase CoCrFeCuxNi (x = 1, 1.71) and CoCu1.71FeMnNi. *Materials Letters*, **2020**, 272, 127866	3.3	7
199	Strengthening and fracture of deformation-processed dual fcc-phase CoCrFeCuNi and CoCrFeCu1.71Ni high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 781, 139241	5.3	14
198	Neutral and alkaline chemical environment dependent synthesis of Mn3O4 for oxygen evolution reaction (OER). *Materials Chemistry and Physics*, **2020**, 247, 122864	4.4	6
197	Hydrothermal Method□Derived MnMoO4 Crystals: Effect of Cationic Surfactant on Microstructures and Electrochemical Properties. *ChemistrySelect*, **2020**, 5, 7728-7733	1.8	3
196	Y2O3 nanorods for cytotoxicity evaluation. *Ceramics International*, **2020**, 46, 20553-20557	5.1	5
195	Effect of interfacial intermetallic compounds evolution on the mechanical response and fracture of layered Ti/Cu/Ti clad materials. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 772, 138802	5.3	14
194	Fabrication and electrochemical OER activity of Ag doped MoO3 nanorods. *Materials Science in Semiconductor Processing*, **2020**, 107, 104818	4.3	8
193	Electrochemical water splitting exploration of MnCo2O4, NiCo2O4 cobaltites. *New Journal of Chemistry*, **2020**, 44, 17679-17692	3.6	5
192	Synthesis of highly active biocompatible ZrO2 nanorods using a bioextract. *Ceramics International*, **2020**, 46, 25915-25920	5.1	11
191	Grain boundary transition associated intergranular failure analysis at TMAZ/SZ interface of dissimilar AA7475-AA2198 joints by friction stir welding. *Materials Letters*, **2020**, 280, 128557	3.3	11
190	Three-layered SS321/AA1050/AA5083 explosive welds: Effect of PWHT on the interface evolution and its mechanical strength. *International Journal of Pressure Vessels and Piping*, **2020**, 188, 104216	2.4	22
189	Marigold flower like structured CuNiSnS electrode for high energy asymmetric solid state supercapacitors. *Scientific Reports*, **2020**, 10, 19198	4.9	12
188	Mechanical Performance and Microstructural Evolution of (NiCo)75Cr17Fe8Cx (x = 0~0.83) Medium Entropy Alloys at Room and Cryogenic Temperatures. *Metals*, **2020**, 10, 1646	2.3	8
187	Binder free, robust and scalable CuO@GCE modified electrodes for efficient electrochemical water oxidation. *Materials Chemistry and Physics*, **2020**, 239, 122321	4.4	7
186	Precipitation and decomposition in CoCrFeMnNi high entropy alloy at intermediate temperatures under creep conditions. *Materialia*, **2019**, 8, 100445	3.2	15

185	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. *Materials Research Letters*, **2019**, 7, 503-509	7.4	23
184	Novel SmMn2O5 hollow long nano-cuboids for electrochemical supercapacitor and water splitting applications. *Vacuum*, **2019**, 166, 279-285	3.7	14
183	Electrochemical Performance of Nis@Ni(OH) Nanocomposite for Water Splitting Applications. *ACS Omega*, **2019**, 4, 10302-10310	3.9	19
182	Organic Leaf Extract Mediated Inorganic Rare Earth La Nanocrystals Formation. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 4033-4038	1.3	0
181	BiWO and FeWO Nanocatalysts for the Electrochemical Water Oxidation Process. *ACS Omega*, **2019** , 4, 5241-5253	3.9	25
180	Influence of interface structure and stress distribution on fracture and mechanical performance of STS439/Al1050/STS304 clad composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 749, 35-47	5.3	15
179	Effect of Ni Interlayer on the Interface Toughening and Thermal Stability of Cu/Al/Cu Clad Composites. *Metals and Materials International*, **2019**, 25, 94-104	2.4	7
178	Nanoscale modulated structures by balanced distribution of atoms and mechanical/structural stabilities in CoCuFeMnNi high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 762, 138120	5.3	21
177	Highly dispersed SmMn2O5 nanorods for electrochemical water oxidation reaction kinetics. *Materials Research Express*, **2019**, 6, 095090	1.7	2
176	Non-isothermal nano-crystallization kinetics in amorphous Ni55Nb35Si10 alloy. *Transactions of Nonferrous Metals Society of China*, **2019**, 29, 358-364	3.3	4
175	Effect of Intermetallic Compound Layer on Peel Strength and Crack Propagation Behavior in Cu/Al/Cu Clad Composites. *Metals*, **2019**, 9, 1155	2.3	11
174	Ecofriendly Biosynthesis of Zinc Oxide and Magnesium Oxide Particles from Medicinal Plant Pisonia grandis R.Br. Leaf Extract and Their Antimicrobial Activity. *BioNanoScience*, **2019**, 9, 141-154	3.4	18
173	Experimental investigation and phase diagram of CoCrMnNi e system bridging high-entropy alloys and high-alloyed steels. *Journal of Alloys and Compounds*, **2019**, 785, 320-327	5.7	22
172	Green synthesis and characterization of hexagonal shaped MgO nanoparticles using insulin plant (Costus pictus D. Don) leave extract and its antimicrobial as well as anticancer activity. *Advanced Powder Technology*, **2018**, 29, 1685-1694	4.6	54
171	Stress-Strain Responses of Multi-Phase CoCrCuMnNi and CoCrMnFeCu Alloys. *Key Engineering Materials*, **2018**, 765, 166-172	0.4	0
170	Microstructure and Mechanical Properties of Equitomic CoCrFeCuNi High Entropy Alloy. *Key Engineering Materials*, **2018**, 765, 149-154	0.4	3
169	Microstructural evolution and mechanical performance of carbon-containing CoCrFeMnNi-C high entropy alloys. *Journal of Alloys and Compounds*, **2018**, 743, 115-125	5.7	66
168	Green synthesis and characterization of zinc oxide nanoparticle using insulin plant (Costus pictus D. Don) and investigation of its antimicrobial as well as anticancer activities. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2018**, 9, 015008	1.6	91

167	Microstructural stability and mechanical properties of equiatomic CoCrCuFeNi, CrCuFeMnNi, CoCrCuFeMn alloys. *Materials Chemistry and Physics*, **2018**, 210, 120-125	4.4	24
166	Microstructural Investigation of CoCrFeMnNi High Entropy Alloy Oxynitride Films Prepared by Sputtering Using an Air Gas. *Metals and Materials International*, **2018**, 24, 1285-1292	2.4	8
165	Criteria for predicting twin-induced plasticity in solid solution copper alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 711, 492-497	5.3	21
164	Dislocation creep behavior of CoCrFeMnNi high entropy alloy at intermediate temperatures. *Materials Research Letters*, **2018**, 6, 689-695	7.4	36
163	High-Temperature Deformability of a Fe-Cr-Mn-Ni Austenite Stainless Steel with High Nitrogen and High Carbon Contents. *Metals*, **2018**, 8, 608	2.3	6
162	Effect of roll-bonding temperature on the strength and electrical conductivity of an □brass-clad Cu□Cr alloy composite. *Physics of Metals and Metallography*, **2017**, 118, 190-197	1.2	2
161	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. *Materials Research Letters*, **2017**, 5, 472-477	7.4	54
160	Creep Behaviors of CrMnFeCoNi High Entropy Alloy at Intermediate Temperatures. *Key Engineering Materials*, **2017**, 737, 21-26	0.4	0
159	Stress-Strain Curves and Crack Formation in an Ingot of Stainless Steel 21-4N Under High-Temperature Compression. *Metal Science and Heat Treatment*, **2017**, 59, 24-29	0.6	1
158	Residual Stress/Strain Effect on the Bending Properties of the Cu/Al/Cu Clad Plate. *Key Engineering Materials*, **2017**, 737, 214-219	0.4	
157	Amorphization and nanocrystallization of Ni□Nb-Si Alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 396-401	5.3	14
156	Thermally activated deformation and the rate controlling mechanism in CoCrFeMnNi high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 569-576	5.3	68
155	Microstructure and Mechanical Properties of Equiatomic CrMnCoNiCu High Entropy Alloy. *Materials Science Forum*, **2017**, 909, 39-43	0.4	1
154	Bending Behavior and Electrical Conductivity of Cu/Ni/Al/Ni/Cu Clad Composite. *Materials Science Forum*, **2017**, 909, 127-132	0.4	1
153	Interactive deformation and enhanced ductility of tri-layered Cu/Al/Cu clad composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 651, 976-986	5.3	37
152	Effect of final heat treatment on creep behaviors of Zr-Nb-Cu alloy cladding tubes. *Metals and Materials International*, **2016**, 22, 216-221	2.4	1
151	Thermomechanical Processing and Roll Bonding of Tri-Layered Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Composite. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2267-2276	2.3	6
150	Enhanced cell viability of hydroxyapatite nanowires by surfactant mediated synthesis and its growth mechanism. *RSC Advances*, **2016**, 6, 25070-25081	3.7	20

149	Influence of microstructure modification on the circumferential creep of ZrNbSnFe cladding tubes. *Journal of Nuclear Materials*, **2016**, 468, 171-177	3.3	9
148	Deformation and fracture of Ti/439 stainless steel clad composite at intermediate temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 651, 805-809	5.3	38
147	Effect of Scrap Impurities on Microstructure and Mechanical Properties of Zr Alloys. *Journal of the Korea Foundry Society*, **2016**, 36, 81-87		1
146	Structural and toxic effect investigation of vanadium pentoxide. *Materials Science and Engineering C* , **2016**, 65, 419-24	8.3	8
145	Structural, compositional and textural properties of monoclinic BiO nanocrystals. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 144, 281-6	4.4	15
144	Effect of Heat Treatment on Galvanic Corrosion of Cu/Al/Cu Clad Soaked in 3.5% NaCl Brine Solution. *Advanced Materials Research*, **2015**, 1102, 55-58	0.5	1
143	Effect of Heat Treatment on the Creep Properties of Zr-1Nb-0.12O Nuclear Cladding Tubes. *Advanced Materials Research*, **2015**, 1102, 3-6	0.5	
142	Effect of Heat Treatment on the Mechanical Properties and Interface Structure of 3-ply Ti/Cu/Ti Clad Composite. *Advanced Materials Research*, **2015**, 1102, 51-54	0.5	1
141	Mechanical Performance and Ductility of Cu/Al/Cu Clad Metals. *Advanced Materials Research*, **2015**, 1102, 7-10	0.5	
140	Baddeleyite Type Monoclinic Zirconium Oxide Nanocrystals Formation. *Advanced Materials Research*, **2015**, 1102, 79-82	0.5	
139	Facile and novel synthetic method to prepare nano molybdenum and its catalytic activity. *IET Nanobiotechnology*, **2015**, 9, 201-8	2	2
138	Deformation and fracture of diffusion-bonded CuNiZn/Cu layered composite. *Materials & Design*, **2015**, 67, 42-49		8
137	Rambutan peels promoted biomimetic synthesis of bioinspired zinc oxide nanochains for biomedical applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 137, 250-8	4.4	110
136	Structural phase transitions in niobium oxide nanocrystals. *Phase Transitions*, **2015**, 88, 897-906	1.3	4
135	Effect of pressing routes on the microstructure and strength in equal channel angular pressing of Cu-3.75Ag. *Metals and Materials International*, **2015**, 21, 746-752	2.4	5
134	Incubation and aging effect on cassiterite type tetragonal rutile SnO2 nanocrystals. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 2305-2310	2.1	4
133	Nd2O3: novel synthesis and characterization. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 511-517	2.3	40
132	An environment benign biomimetic synthesis of mesoporous NiO concentric stacked doughnuts architecture. *Microporous and Mesoporous Materials*, **2015**, 207, 185-194	5.3	4

131	Novel green synthetic strategy to prepare ZnO nanocrystals using rambutan (Nephelium lappaceum L.) peel extract and its antibacterial applications. *Materials Science and Engineering C*, **2014**, 41, 17-27	8.3	192
130	Mechanochemical joining in cold roll-cladding of tri-layered Cu/Al/Cu composite and the interface cracking behavior. *Materials & Design*, **2014**, 57, 625-631		50
129	Novel zirconium nitride and hydroxyapatite nanocomposite coating: detailed analysis and functional properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 9850-7	9.5	29
128	Inorganic complex intermediate Co3O4 nanostructures using green ligation from natural waste resources. *RSC Advances*, **2014**, 4, 44495-44499	3.7	8
127	Rice husk ash nanosilica to inhibit human breast cancer cell line (3T3). *Journal of Sol-Gel Science and Technology*, **2014**, 72, 198-205	2.3	5
126	Influence of processing method on the properties of hydroxyapatite nanoparticles in the presence of different citrate ion concentrations. *Advanced Powder Technology*, **2014**, 25, 551-559	4.6	7
125	Rambutan (Nephelium lappaceum L.) peel extract assisted biomimetic synthesis of nickel oxide nanocrystals. *Materials Letters*, **2014**, 128, 170-174	3.3	68
124	Apatite deposition and collagen coating effects in Ti-Al-V and Ti-Al-Nb alloys. *Physics of Metals and Metallography*, **2014**, 115, 1307-1312	1.2	3
123	Creep performance of Zr-1Nb-0.75Sn-0.1Fe cladding tubes with optimized Sn content. *Physics of Metals and Metallography*, **2014**, 115, 1313-1317	1.2	2
122	The Nature of Intermetallic Compounds and its Effect on Mechanical Properties of Cu/Al/Cu Clad Metals. *Advanced Materials Research*, **2014**, 951, 87-91	0.5	1
121	Interface Bonding and its Effect on the Mechanical Properties in Roll-Bonded Cu/Al/Cu Hybrid Alloy. *Applied Mechanics and Materials*, **2014**, 508, 56-60	0.3	
120	Green Synthesis of Zinc Oxide Nanoparticles. *Advanced Materials Research*, **2014**, 952, 137-140	0.5	9
119	Green Synthesis of Magnesium Oxide Nanoparticles. *Advanced Materials Research*, **2014**, 952, 141-144	0.5	39
118	Microstructure and Deformability of Cast Zr-Nb-Fe-O Alloy with High Iron and Oxygen Content. *Advanced Materials Research*, **2014**, 977, 99-103	0.5	
117	Mechanical performance of oxidized Zr-Nb-O nuclear cladding tubes. *Physics of Metals and Metallography*, **2014**, 115, 1281-1284	1.2	2
116	Effect of Scrap: Sponge Ratio on Mechanical and Corrosion Properties of Zr-1Nb-0.7Sn-0.1Fe Alloy. *Advanced Materials Research*, **2014**, 977, 94-98	0.5	1
115	Mechanical Properties of Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Composite Plate Processed by Explosive Bonding and Cold Rolling. *Advanced Materials Research*, **2014**, 951, 83-86	0.5	2
114	Green Synthesis of Spinel Magnetite Iron Oxide Nanoparticles. *Advanced Materials Research*, **2014**, 1051, 39-42	0.5	39

113	Effect of heat treatment on tensile deformation characteristics and properties of Al3003/STS439 clad composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 596, 1-8	5.3	51
112	Roll-Bonded Tri-Layered Mg/Al/Stainless Steel Clad Composites and their Deformation and Fracture Behavior. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3890-3900	2.3	39
111	Temperature dependent slip mode modification in Cu□Al solid solution alloy single crystals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 565, 9-12	5.3	10
110	Effect of heat treatment on the bending behavior of tri-layered Cu/Al/Cu composite plates. *Materials & Design*, **2013**, 47, 590-598		96
109	Design of high strength Cu alloy interlayer for mechanical bonding Ti to steel and characterization of their tri-layered clad. *Materials & Design*, **2013**, 51, 293-299		26
108	Estimating interface bonding strength in clad metals using digital image correlation. *Scripta Materialia*, **2013**, 68, 893-896	5.6	14
107	Influence of fluorine substitution on the morphology and structure of□hydroxyapatite nanocrystals prepared by hydrothermal method. *Materials Chemistry and Physics*, **2013**, 137, 967-976	4.4	35
106	Effect of component layer thickness on the bending behaviors of roll-bonded tri-layered Mg/Al/STS clad composites. *Materials & Design*, **2013**, 49, 935-944		53
105	Effect of Heat Treatment on the Bending Behavior of STS/Al/STS Hybrid Metal Plates. *Advanced Materials Research*, **2013**, 813, 34-38	0.5	
104	High Pressure Torsioning of Cu-9Fe-1.2X(X = Co, Ni, Ag) Microcomposites and their Microstructural and Mechanical Evolution. *Advanced Materials Research*, **2013**, 813, 87-90	0.5	0
103	Mechanical Behavior of 3-ply Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Composite Plate Processed by Roll Bonding. *Advanced Materials Research*, **2013**, 813, 43-46	0.5	
102	Mechanical Properties and Microstructure of Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Clad Plate Processed by High Pressure Torsioning (HPT). *Advanced Materials Research*, **2013**, 683, 318-321	0.5	
101	Microstructure and Mechanical Propertiesof Ti/Cu-Cr/S20C and Ti/Cu-Ag/S20C Clad Composites. *Applied Mechanics and Materials*, **2013**, 376, 153-157	0.3	2
100	Effect of High Temperature Oxidation on the Mechanical Properties of Zr-1Nb-1Sn-0.1Fe Alloy Cladding Tubes. *Journal of Korean Institute of Metals and Materials*, **2013**, 51, 015-024	1	2
99	Deformation Twins in a Cu-Ag Nanocomposite Processed by Equal Channel Angular Pressing (ECAP). *Journal of Korean Institute of Metals and Materials*, **2013**, 51, 621-627	1	11
98	Multifunctional properties of hydroxyapatite/titania bio-nano-composites: bioactivity and antimicrobial studies. *Powder Technology*, **2012**, 228, 410-415	5.2	35
97	Template-Free Growth of Novel Hydroxyapatite Nanorings: Formation Mechanism and Their Enhanced Functional Properties. *Crystal Growth and Design*, **2012**, 12, 3565-3574	3.5	40
96	Modification of microstructure and strength/conductivity properties of Cu-15 Ag in-situ composites by equal-channel angular pressing. *Metals and Materials International*, **2012**, 18, 355-360	2.4	18

95	Mechanical Properties of Oxidized Zr-1Nb-0.7Sn-0.1Fe Alloy Nuclear Cladding Tubes at High Temperatures. *Advanced Materials Research*, **2012**, 557-559, 1157-1160	0.5	
94	Nanocomposited and Functionally Graded ZrN/HA Coatings on cp-Ti by RF Magnetron Sputtering. *Applied Mechanics and Materials*, **2012**, 248, 37-42	0.3	2
93	Creep Behaviors of Stress-Relieved and Annealed Zr-1Nb-0.7Sn-0.1Fe Nuclear Cladding Tubes at Intermediate Temperatures. *Applied Mechanics and Materials*, **2012**, 248, 343-348	0.3	
92	Mechanical Performance of Ti/Cu-8Ag/S20C Clad Composite Processed by High Pressure Torsioning (HPT). *Advanced Materials Research*, **2012**, 625, 323-327	0.5	0
91	Mechanical Properties and Microstructure of Two- Layered Cu-Ni-Zn/Cu-Cr Material Joined by Diffusion Bonding. *Advanced Materials Research*, **2012**, 557-559, 423-426	0.5	
90	Mechanical and Microstructural Analyses of Three Layered Cu-Ni-Zn/Cu-Zr/Cu-Ni-Zn Clad Material Processed by High Pressure Torsioning (HPT). *Advanced Materials Research*, **2012**, 557-559, 1161-1165	0.5	
89	Mechanical Reliability of Oxidized Zr1Nb1Sn0.1Fe Alloy Nuclear Cladding Tubes. *Advanced Science Letters*, **2012**, 15, 310-314	0.1	3
88	Large scale synthesis of hydroxyapatite nanospheres by high gravity method. *Chemical Engineering Journal*, **2011**, 173, 846-854	14.7	48
87	Deformation behavior of cold-rolled and annealed Zr1.5Nb and Zr1.5Nb5 alloys. *Journal of Nuclear Materials*, **2011**, 414, 138-144	3.3	4
86	Design and characterization of new Cu alloys to substitute Cu25%Ni for coinage applications. *Materials & Design*, **2011**, 32, 1790-1795		13
85	Design and mechanical characterization of a ZrNbOP alloy. *Materials & Design*, **2011**, 32, 4270-4277		16
84	Effect of Interfacial Reaction Layer on Mechanical Properties of 3-ply Mg/Al/STS Clad-metal. *Journal of Korean Institute of Metals and Materials*, **2011**, 49, 664-670	1	7
83	OUT-OF-PILE MECHANICAL PERFORMANCE AND MICROSTRUCTURE OF RECRYSTALLIZED ZR-1.5 NB-O-S ALLOYS. *Nuclear Engineering and Technology*, **2011**, 43, 421-428	2.6	1
82	Structural characterization of Laves-phase MgZn2 precipitated in Mg-Zn-Y alloy. *Metals and Materials International*, **2010**, 16, 171-174	2.4	23
81	Creep properties of annealed ZrNbO and stress-relieved ZrNbSnFe cladding tubes and their performance comparison. *Journal of Nuclear Materials*, **2010**, 404, 154-159	3.3	12
80	DEFORMATION BEHAVIORS OF THERMO-MECHANICALLY PROCESSED Zr-Nb-P ALLOYS. *International Journal of Modern Physics B*, **2009**, 23, 1816-1821	1.1	
79	EFFECT OF CRYSTALLIZATION AND SURFACE TREATMENT ON DEFORMATION AND FRACTURE OF Zr-Ti-Cu-Ni-Be BULK METALLIC GLASS. *International Journal of Modern Physics B*, **2009**, 23, 1270-1275	1.1	2
78	Enhancement of plasticity in Zr-base bulk metallic glass by soft metal plating. *Scripta Materialia*, **2009**, 61, 481-484	5.6	34

77	Circumferential creep properties of stress-relieved Zircaloy-4 and ZrNbSnFe cladding tubes. *Journal of Nuclear Materials*, **2009**, 392, 63-69	3.3	27
76	Ultrastructural observation of electron irradiation damage of lamellar bone. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 959-65	4.5	8
75	Nanostructural analysis of trabecular bone. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1419-26	4.5	23
74	The effects of alloying and pressing routes in equal channel angular pressing of Cu-Fe-Cr and Cu-Fe-Cr-Ag composites. *Metals and Materials International*, **2009**, 15, 733-739	2.4	14
73	Effect of phosphorus on the mechanical behavior of a ZrNb alloy. *Journal of Nuclear Materials*, **2009**, 383, 270-273	3.3	4
72	Coupled Analysis of Heat Transfer and Deformation in Equal Channel Angular Pressing of Al and Steel. *Materials Transactions*, **2009**, 50, 40-43	1.3	13
71	Ultrastructural analyses of nanoscale apatite biomimetically grown on organic template. *Journal of Materials Research*, **2008**, 23, 478-485	2.5	19
70	Effect of sulphur on the strengthening of a ZrNb alloy. *Journal of Nuclear Materials*, **2008**, 373, 16-21	3.3	22
69	High-temperature deformation behavior and stress relaxation of ZrTiCuNiBe bulk metallic glass extracted from commercial golf club heads. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 130-133	5.3	2
68	Mechanical properties and microstructure of commercial amorphous golf club heads made of ZrTiCuNiBe bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 126-129	5.3	7
67	Mechanical behavior and microstructure of Cu54Zr22Ti18Ni6 bulk metallic glass at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 122-125	5.3	4
66	Enhanced wear and fatigue properties of Ti-6Al-4V alloy modified by plasma carburizing/CrN coating. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 925-31	4.5	11
65	Biomimetic Deposition of Apatite on Zr-1Nb and Ti-6Al-4V. *Materials Science Forum*, **2007**, 534-536, 1013-1016	0.4	2
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