

Sun Ig Hong

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220
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#	Paper	IF	Citations
220	Texture development and its effect on mechanical properties of an AZ61 Mg alloy fabricated by equal channel angular pressing. <i>Acta Materialia</i> , 2003 , 51, 3293-3307	8.4	462
219	Mechanisms of slip mode modification in F.C.C. solid solutions. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 1581-1594		250
218	Optimization of strength and ductility of 2024 Al by equal channel angular pressing (ECAP) and post-ECAP aging. <i>Scripta Materialia</i> , 2003 , 49, 333-338	5.6	213
217	Novel green synthetic strategy to prepare ZnO nanocrystals using rambutan (<i>Nephelium lappaceum</i> L.) peel extract and its antibacterial applications. <i>Materials Science and Engineering C</i> , 2014 , 41, 17-27	8.3	192
216	Enhancement of strength and superplasticity in a 6061 Al alloy processed by equal-channel-angular-pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3155-3164	2.3	151
215	Microstructural stability and mechanical response of Cu/Ag microcomposite wires. <i>Acta Materialia</i> , 1998 , 46, 4111-4122	8.4	130
214	Rambutan peels promoted biomimetic synthesis of bioinspired zinc oxide nanochains for biomedical applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 250-8	4.4	110
213	Effect of heat treatment on the bending behavior of tri-layered Cu/Al/Cu composite plates. <i>Materials & Design</i> , 2013 , 47, 590-598		96
212	Green synthesis and characterization of zinc oxide nanoparticle using insulin plant (<i>Costus pictus</i> D. Don) and investigation of its antimicrobial as well as anticancer activities. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2018 , 9, 015008	1.6	91
211	Dynamic deformation behavior of Al ₂ Zn ₂ Mg ₂ Cu alloy matrix composites reinforced with 20 Vol.% SiC. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 2337-2351		84
210	Effects of strain hardenability and strain-rate sensitivity on the plastic flow and deformation homogeneity during equal channel angular pressing. <i>Journal of Materials Research</i> , 2001 , 16, 856-864	2.5	79
209	Mechanical stability and electrical conductivity of Cu/Ag filamentary microcomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 264, 151-158	5.3	73
208	Rambutan (<i>Nephelium lappaceum</i> L.) peel extract assisted biomimetic synthesis of nickel oxide nanocrystals. <i>Materials Letters</i> , 2014 , 128, 170-174	3.3	68
207	Thermally activated deformation and the rate controlling mechanism in CoCrFeMnNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 569-576	5.3	68
206	Microstructural evolution and mechanical performance of carbon-containing CoCrFeMnNi-C high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 115-125	5.7	66
205	Spatial control of protein within biomimetically nucleated mineral. <i>Biomaterials</i> , 2006 , 27, 1175-86	15.6	65
204	On the stability of cold drawn, two-phase wires. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3313-3323		62

203	A model of the ductileBrittle transition of partially crystallized amorphous AlNi ₃ alloys. <i>Acta Materialia</i> , 1999 , 47, 2059-2066	8.4	60
202	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. <i>Materials Research Letters</i> , 2017 , 5, 472-477	7.4	54
201	Green synthesis and characterization of hexagonal shaped MgO nanoparticles using insulin plant (<i>Costus pictus</i> D. Don) leave extract and its antimicrobial as well as anticancer activity. <i>Advanced Powder Technology</i> , 2018 , 29, 1685-1694	4.6	54
200	Ductility and strain rate sensitivity of Zircaloy-4 nuclear fuel claddings. <i>Journal of Nuclear Materials</i> , 2001 , 295, 21-26	3.3	54
199	Effect of component layer thickness on the bending behaviors of roll-bonded tri-layered Mg/Al/STS clad composites. <i>Materials & Design</i> , 2013 , 49, 935-944		53
198	Deformation processing and strength/conductivity properties of CuBeAg microcomposites. <i>Journal of Alloys and Compounds</i> , 2005 , 388, 69-74	5.7	53
197	Effect of heat treatment on tensile deformation characteristics and properties of Al3003/STS439 clad composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 596, 1-8	5.3	51
196	Mechanochemical joining in cold roll-cladding of tri-layered Cu/Al/Cu composite and the interface cracking behavior. <i>Materials & Design</i> , 2014 , 57, 625-631		50
195	Large scale synthesis of hydroxyapatite nanospheres by high gravity method. <i>Chemical Engineering Journal</i> , 2011 , 173, 846-854	14.7	48
194	A TEM study of dislocation structures in fatigued Cu-16 at.% Al single crystals. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 2261-2274		48
193	Heavily drawn CuBeAg and CuBeCr microcomposites. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 610-616	5.3	45
192	Elongation minimum and strain rate sensitivity minimum of zircaloy-4. <i>Journal of Nuclear Materials</i> , 1983 , 116, 314-316	3.3	45
191	Short-range order strengthening in boron-doped high-entropy alloys for cryogenic applications. <i>Acta Materialia</i> , 2020 , 194, 366-377	8.4	43
190	Cyclic deformation behaviour of Cu-16at.%Al single crystals part II: Cyclic hardening and slip band behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990 , 128, 55-75	5.3	43
189	Influence of dynamic strain aging on the dislocation substructure in a uniaxial tension test. <i>Materials Science and Engineering</i> , 1986 , 79, 1-7		43
188	Stress-induced reorientation of hydrides and mechanical properties of Zircaloy-4 cladding tubes. <i>Journal of Nuclear Materials</i> , 2005 , 340, 203-208	3.3	42
187	Thermally activated deformation of Zircaloy-4. <i>Journal of Nuclear Materials</i> , 1984 , 120, 1-5	3.3	41
186	Nd ₂ O ₃ : novel synthesis and characterization. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 73, 511-517.	3.3	40

185	Template-Free Growth of Novel Hydroxyapatite Nanorings: Formation Mechanism and Their Enhanced Functional Properties. <i>Crystal Growth and Design</i> , 2012 , 12, 3565-3574	3.5	40
184	Roll-Bonded Tri-Layered Mg/Al/Stainless Steel Clad Composites and their Deformation and Fracture Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3890-3900	2.3	39
183	Green Synthesis of Magnesium Oxide Nanoparticles. <i>Advanced Materials Research</i> , 2014 , 952, 141-144	0.5	39
182	Green Synthesis of Spinel Magnetite Iron Oxide Nanoparticles. <i>Advanced Materials Research</i> , 2014 , 1051, 39-42	0.5	39
181	Deformation and fracture of Ti/439 stainless steel clad composite at intermediate temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 805-809	5.3	38
180	Interactive deformation and enhanced ductility of tri-layered Cu/Al/Cu clad composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 976-986	5.3	37
179	Microstructure and conductivity of Cu-Nb microcomposites fabricated by the bundling and drawing process. <i>Scripta Materialia</i> , 2001 , 44, 2509-2515	5.6	36
178	Microstructural stability of Cu-Nb microcomposite wires fabricated by the bundling and drawing process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 281, 189-197	5.3	36
177	Dislocation creep behavior of CoCrFeMnNi high entropy alloy at intermediate temperatures. <i>Materials Research Letters</i> , 2018 , 6, 689-695	7.4	36
176	Multifunctional properties of hydroxyapatite/titania bio-nano-composites: bioactivity and antimicrobial studies. <i>Powder Technology</i> , 2012 , 228, 410-415	5.2	35
175	Influence of fluorine substitution on the morphology and structure of hydroxyapatite nanocrystals prepared by hydrothermal method. <i>Materials Chemistry and Physics</i> , 2013 , 137, 967-976	4.4	35
174	Enhancement of plasticity in Zr-base bulk metallic glass by soft metal plating. <i>Scripta Materialia</i> , 2009 , 61, 481-484	5.6	34
173	Effect of the circumferential hydrides on the deformation and fracture of Zircaloy cladding tubes. <i>Journal of Nuclear Materials</i> , 2002 , 303, 169-176	3.3	34
172	Strength and conductivity of Cu-9Fe-1.2X (X = Ag or Cr) filamentary microcomposite wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 985-991	2.3	34
171	FATIGUE CRACK INITIATION AND GROWTH BEHAVIOR OF Cu-16 at.% Al SINGLE CRYSTALS. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1991 , 14, 143-169	3	34
170	Interfacial and twin boundary structures of nanostructured Cu-Ag filamentary composites. <i>Journal of Materials Research</i> , 2003 , 18, 2194-2202	2.5	33
169	Influence of dynamic strain aging on the apparent activation volume for deformation. <i>Materials Science and Engineering</i> , 1985 , 76, 77-81		33
168	Strength and electrical conductivity of Cu-9Fe-1.2Co filamentary microcomposite wires. <i>Journal of Alloys and Compounds</i> , 2000 , 311, 265-269	5.7	32

167	Microstructure and stress-strain responses of AlMgSi alloy matrix composites reinforced with 10 vol.% Al ₂ O ₃ particulates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 221, 38-47	5.3	31
166	Yield strength of a heavily drawn Cu-20% Nb filamentary microcomposite. <i>Scripta Materialia</i> , 1998 , 39, 1685-1691	5.6	30
165	Deformation processing and mechanical properties of CuCr _x (X=Ag or Co) microcomposites. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 272-277	5.3	30
164	Novel zirconium nitride and hydroxyapatite nanocomposite coating: detailed analysis and functional properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9850-7	9.5	29
163	Circumferential creep properties of stress-relieved Zircaloy-4 and ZrNbSnBe cladding tubes. <i>Journal of Nuclear Materials</i> , 2009 , 392, 63-69	3.3	27
162	Cyclic stress-strain response and slip mode modification in fatigue of f.c.c. solid solutions. <i>Scripta Materialia</i> , 2001 , 44, 995-1001	5.6	27
161	Design of high strength Cu alloy interlayer for mechanical bonding Ti to steel and characterization of their tri-layered clad. <i>Materials & Design</i> , 2013 , 51, 293-299		26
160	BiWO and FeWO Nanocatalysts for the Electrochemical Water Oxidation Process. <i>ACS Omega</i> , 2019 , 4, 5241-5253	3.9	25
159	Influence of dynamic strain aging on the stress exponent and the dislocation substructure for the creep of Al-Mg alloys. <i>Materials Science and Engineering</i> , 1986 , 82, 175-185		25
158	Microstructural stability and mechanical properties of equiatomic CoCrCuFeNi, CrCuFeMnNi, CoCrCuFeMn alloys. <i>Materials Chemistry and Physics</i> , 2018 , 210, 120-125	4.4	24
157	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. <i>Materials Research Letters</i> , 2019 , 7, 503-509	7.4	23
156	Nanostructural analysis of trabecular bone. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1419-26	4.5	23
155	Structural characterization of Laves-phase MgZn ₂ precipitated in Mg-Zn-Y alloy. <i>Metals and Materials International</i> , 2010 , 16, 171-174	2.4	23
154	Thermo-mechanical processing and properties of CuBeCr microcomposites. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 278-282	5.3	23
153	Thermo-mechanical processing and properties of Cu ₉ Fe _{1.2} Co microcomposite wires. <i>Scripta Materialia</i> , 2001 , 45, 1295-1300	5.6	23
152	Effect of sulphur on the strengthening of a ZrNb alloy. <i>Journal of Nuclear Materials</i> , 2008 , 373, 16-21	3.3	22
151	Microstructural and mechanical stability of Cu-6 wt. % Ag alloy. <i>Journal of Materials Science</i> , 2000 , 35, 4557-4561	4.3	22
150	Dynamic mechanical response of a 1060 Al/Al ₂ O ₃ composite. <i>Journal of Materials Science</i> , 1994 , 29, 2987-2992	4.3	22

149	Three-layered SS321/AA1050/AA5083 explosive welds: Effect of PWHT on the interface evolution and its mechanical strength. <i>International Journal of Pressure Vessels and Piping</i> , 2020 , 188, 104216	2.4	22
148	Experimental investigation and phase diagram of CoCrMnNiBe system bridging high-entropy alloys and high-alloyed steels. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 320-327	5.7	22
147	Nanoscale modulated structures by balanced distribution of atoms and mechanical/structural stabilities in CoCuFeMnNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138120	5.3	21
146	Criteria for predicting twin-induced plasticity in solid solution copper alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 492-497	5.3	21
145	Enhanced cell viability of hydroxyapatite nanowires by surfactant mediated synthesis and its growth mechanism. <i>RSC Advances</i> , 2016 , 6, 25070-25081	3.7	20
144	Influence of dynamic strain aging on the transition of creep characteristics of a solid solution alloy at various temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989 , 110, 125-130	5.3	20
143	Influence of dynamic strain aging on the creep ductility of solid solution alloys. <i>Materials Science and Engineering</i> , 1987 , 91, 137-142		20
142	Heterostructured SmCoO ₃ /rGO composite for high-energy hybrid supercapacitors. <i>Carbon</i> , 2021 , 172, 613-623	10.4	20
141	Electrochemical Performance of Ni ₃ S ₂ @Ni(OH) ₂ Nanocomposite for Water Splitting Applications. <i>ACS Omega</i> , 2019 , 4, 10302-10310	3.9	19
140	Hydride formation by high temperature cathodic hydrogen charging method and its effect on the corrosion behavior of Zircaloy-4 tubes in acid solution. <i>Journal of Nuclear Materials</i> , 1998 , 256, 124-130	3.3	19
139	Ultrastructural analyses of nanoscale apatite biomimetically grown on organic template. <i>Journal of Materials Research</i> , 2008 , 23, 478-485	2.5	19
138	Modification of microstructure and strength/conductivity properties of Cu-15 Ag in-situ composites by equal-channel angular pressing. <i>Metals and Materials International</i> , 2012 , 18, 355-360	2.4	18
137	Ecofriendly Biosynthesis of Zinc Oxide and Magnesium Oxide Particles from Medicinal Plant <i>Pisonia grandis</i> R.Br. Leaf Extract and Their Antimicrobial Activity. <i>BioNanoScience</i> , 2019 , 9, 141-154	3.4	18
136	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124265	4.4	17
135	Design and mechanical characterization of a Zr-Nb alloy. <i>Materials & Design</i> , 2011 , 32, 4270-4277		16
134	Mechanical properties of Cu-Nb microcomposites fabricated by the bundling and drawing process. <i>Scripta Materialia</i> , 2000 , 42, 737-742	5.6	16
133	Faceted fatigue fracture and its relation to the crystallographic slip systems in Cu-16 at. Pct al single crystals. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991 , 22, 415-425		16
132	Precipitation and decomposition in CoCrFeMnNi high entropy alloy at intermediate temperatures under creep conditions. <i>Materialia</i> , 2019 , 8, 100445	3.2	15

131	Influence of interface structure and stress distribution on fracture and mechanical performance of STS439/Al1050/STS304 clad composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 35-47	5.3	15
130	Structural, compositional and textural properties of monoclinic Bi ₂ O ₃ nanocrystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 144, 281-6	4.4	15
129	High strength dual fcc phase CoCuFeMnNi high-entropy alloy wires with dislocation wall boundaries stabilized by phase boundaries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 825, 141875	5.3	15
128	Novel SmMn ₂ O ₅ hollow long nano-cuboids for electrochemical supercapacitor and water splitting applications. <i>Vacuum</i> , 2019 , 166, 279-285	3.7	14
127	Strengthening and fracture of deformation-processed dual fcc-phase CoCrFeCuNi and CoCrFeCu _{1.71} Ni high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 781, 139241	5.3	14
126	Amorphization and nanocrystallization of Ni ₄₀ Nb ₆₀ -Si Alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 396-401	5.3	14
125	Estimating interface bonding strength in clad metals using digital image correlation. <i>Scripta Materialia</i> , 2013 , 68, 893-896	5.6	14
124	The effects of alloying and pressing routes in equal channel angular pressing of Cu-Fe-Cr and Cu-Fe-Cr-Ag composites. <i>Metals and Materials International</i> , 2009 , 15, 733-739	2.4	14
123	Mechanical and electrical properties of heavily drawn Cu-Nb microcomposites with various Nb contents. <i>Journal of Materials Science</i> , 2002 , 37, 1237-1245	4.3	14
122	On the creep activation energies of alloys. <i>Materials Science and Engineering</i> , 1987 , 86, 211-218		14
121	Influence of dynamic strain aging on the apparent activation energy for creep. <i>Materials Science and Engineering</i> , 1984 , 64, L19-L21		14
120	Effect of interfacial intermetallic compounds evolution on the mechanical response and fracture of layered Ti/Cu/Ti clad materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138802	5.3	14
119	Design and characterization of new Cu alloys to substitute Cu ₂₅ Ni for coinage applications. <i>Materials & Design</i> , 2011 , 32, 1790-1795		13
118	Coupled Analysis of Heat Transfer and Deformation in Equal Channel Angular Pressing of Al and Steel. <i>Materials Transactions</i> , 2009 , 50, 40-43	1.3	13
117	Ni doped Bi ₂ WO ₆ for electrochemical OER activity. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18859-18866	6.7	12
116	Creep properties of annealed Zr ₄₀ Nb ₆₀ and stress-relieved Zr ₄₀ Nb ₅₀ Be cladding tubes and their performance comparison. <i>Journal of Nuclear Materials</i> , 2010 , 404, 154-159	3.3	12
115	Process Modelling of Equal Channel Angular Pressing for Ultrafine Grained Materials. <i>Materials Transactions</i> , 2004 , 45, 2172-2176	1.3	12
114	Marigold flower like structured CuNiSnS electrode for high energy asymmetric solid state supercapacitors. <i>Scientific Reports</i> , 2020 , 10, 19198	4.9	12

113	Effect of Intermetallic Compound Layer on Peel Strength and Crack Propagation Behavior in Cu/Al/Cu Clad Composites. <i>Metals</i> , 2019 , 9, 1155	2.3	11
112	Enhanced wear and fatigue properties of Ti-6Al-4V alloy modified by plasma carburizing/CrN coating. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 925-31	4.5	11
111	Deformation Twins in a Cu-Ag Nanocomposite Processed by Equal Channel Angular Pressing (ECAP). <i>Journal of Korean Institute of Metals and Materials</i> , 2013 , 51, 621-627	1	11
110	Synthesis of highly active biocompatible ZrO ₂ nanorods using a bioextract. <i>Ceramics International</i> , 2020 , 46, 25915-25920	5.1	11
109	Grain boundary transition associated intergranular failure analysis at TMAZ/SZ interface of dissimilar AA7475-AA2198 joints by friction stir welding. <i>Materials Letters</i> , 2020 , 280, 128557	3.3	11
108	Microstructure evolution and mechanical properties of (CoCrNi) ₉₀ (AlTiZr) ₅ (CuFeMo) ₅ multicomponent alloy: A pathway through multicomponent alloys toward new superalloys. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158412	5.7	11
107	Modifications of partial-dislocation-induced defects and strength/ductility enhancement in metastable high entropy alloys through nitrogen doping. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140684	5.3	11
106	Temperature dependent slip mode modification in Cu ₃ Al solid solution alloy single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 9-12	5.3	10
105	Microforming of Bulk Metallic Glasses: Constitutive Modelling and Applications. <i>Materials Transactions</i> , 2004 , 45, 1228-1232	1.3	10
104	Influence of microstructure modification on the circumferential creep of Zr _{0.1} B _{0.1} N _{0.1} Be cladding tubes. <i>Journal of Nuclear Materials</i> , 2016 , 468, 171-177	3.3	9
103	Green Synthesis of Zinc Oxide Nanoparticles. <i>Advanced Materials Research</i> , 2014 , 952, 137-140	0.5	9
102	Hierarchical structured as-cast CrFeNiMn _{0.5} Cu _{0.5} high entropy alloy with excellent tensile strength/ductility properties. <i>Scripta Materialia</i> , 2022 , 210, 114473	5.6	9
101	Deformation and fracture of diffusion-bonded Cu ₃ Ni ₂ Zn/Cu ₃ Cr layered composite. <i>Materials & Design</i> , 2015 , 67, 42-49		8
100	Designing rational and cheapest SeO ₂ electrocatalyst for long stable water splitting process. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 145, 109544	3.9	8
99	Microstructural Investigation of CoCrFeMnNi High Entropy Alloy Oxynitride Films Prepared by Sputtering Using an Air Gas. <i>Metals and Materials International</i> , 2018 , 24, 1285-1292	2.4	8
98	Inorganic complex intermediate Co ₃ O ₄ nanostructures using green ligation from natural waste resources. <i>RSC Advances</i> , 2014 , 4, 44495-44499	3.7	8
97	Ultrastructural observation of electron irradiation damage of lamellar bone. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 959-65	4.5	8
96	Creep behavior of copper-chromium in-situ composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 695-705	2.3	8

95	Strength and ductility of heavily drawn bundled Cu-Nb filamentary microcomposite wires with various Nb contents. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 2457-2462	2.3	8
94	Fabrication and electrochemical OER activity of Ag doped MoO ₃ nanorods. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104818	4.3	8
93	Mechanical Performance and Microstructural Evolution of (NiCo) ₇₅ Cr ₁₇ Fe ₈ C _x (x = 0~0.83) Medium Entropy Alloys at Room and Cryogenic Temperatures. <i>Metals</i> , 2020 , 10, 1646	2.3	8
92	Comparative Insight into the Interfacial Phase Evolutions during Solution Treatment of Dissimilar Friction Stir Welded AA2198-AA7475 and AA2198-AA6013 Aluminum Sheets. <i>Materials</i> , 2021 , 14,	3.5	8
91	Structural and toxic effect investigation of vanadium pentoxide. <i>Materials Science and Engineering C</i> , 2016 , 65, 419-24	8.3	8
90	Correlation between mechanical properties and thermodynamic parameters of dual-fcc-phase CoCrFeCu _x Ni (x = 1, 1.71) and CoCu _{1.71} FeMnNi. <i>Materials Letters</i> , 2020 , 272, 127866	3.3	7
89	Effect of Ni Interlayer on the Interface Toughening and Thermal Stability of Cu/Al/Cu Clad Composites. <i>Metals and Materials International</i> , 2019 , 25, 94-104	2.4	7
88	Influence of processing method on the properties of hydroxyapatite nanoparticles in the presence of different citrate ion concentrations. <i>Advanced Powder Technology</i> , 2014 , 25, 551-559	4.6	7
87	Mechanical properties and microstructure of commercial amorphous golf club heads made of ZrTiCuNiBe bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 126-129	5.3	7
86	Superplasticity of Cu-6 at.% Ag microcomposites. <i>Journal of Materials Research</i> , 2001 , 16, 1822-1828	2.5	7
85	Effect of Interfacial Reaction Layer on Mechanical Properties of 3-ply Mg/Al/STS Clad-metal. <i>Journal of Korean Institute of Metals and Materials</i> , 2011 , 49, 664-670	1	7
84	Binder free, robust and scalable CuO@GCE modified electrodes for efficient electrochemical water oxidation. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122321	4.4	7
83	Neutral and alkaline chemical environment dependent synthesis of Mn ₃ O ₄ for oxygen evolution reaction (OER). <i>Materials Chemistry and Physics</i> , 2020 , 247, 122864	4.4	6
82	Thermomechanical Processing and Roll Bonding of Tri-Layered Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2267-2276	2.3	6
81	Influence of solute-dislocation interaction on the superplastic behavior and ductility of Al-Mg alloys. <i>Scripta Materialia</i> , 1998 , 40, 217-222	5.6	6
80	Comparison of microstructure and strength in wire-drawn and rolled Cu-9 Fe-1.2 Ag filamentary microcomposite. <i>Journal of Materials Science</i> , 2001 , 36, 5881-5884	4.3	6
79	Latent hardening behavior of cyclically deformed Cu-16 at.%Al single crystals. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 397-412		6
78	Toward excellent tensile properties of nitrogen-doped CoCrFeMnNi high-entropy alloy at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163217	5.7	6

77	Interface strengthening of a roll-bonded two-ply Al/Cu sheet by short annealing. <i>Materials Characterization</i> , 2021 , 174, 111021	3.9	6
76	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. <i>Data in Brief</i> , 2021 , 34, 106713	1.2	6
75	High-Temperature Deformability of a Fe-Cr-Mn-Ni Austenite Stainless Steel with High Nitrogen and High Carbon Contents. <i>Metals</i> , 2018 , 8, 608	2.3	6
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