Sun Ig Hong

List of Publications by Year
in descending order

227	7,124	57758	82547
papers	citations	44 h-index	72 g-index

227	227	227	4727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of PEG directed Sb2WO6 for dyes removal from wastewater. Chemosphere, 2022, 291, 132677.	8.2	9
2	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, 2022, 576, 151719.	6.1	21
3	Toward excellent tensile properties of nitrogen-doped CoCrFeMnNi high-entropy alloy at room and cryogenic temperatures. Journal of Alloys and Compounds, 2022, 897, 163217.	5.5	43
4	Hierarchical structured as-cast CrFeNiMn0.5Cu0.5 high entropy alloy with excellent tensile strength/ductility properties. Scripta Materialia, 2022, 210, 114473.	5.2	33
5	Microstructural Evolution and Mechanical Properties of Non-Equiatomic (CoNi)74.66Cr17Fe8C0.34 High-Entropy Alloy. Materials, 2022, 15, 1312.	2.9	0
6	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.	1.0	7
7	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, 911, 165108.	5.5	27
8	Enhancement of tensile properties applying phase separation with Cu addition in gas tungsten arc welds of CoCrFeMnNi high entropy alloys. Scripta Materialia, 2022, 220, 114897.	5.2	13
9	Iron doped vanadium sulfide anemone like nanorod structure for electrochemical water oxidation. Current Applied Physics, 2021, 21, 192-198.	2.4	2
10	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.	5.5	38
11	Heterostructured SmCoO3/rGO composite for high-energy hybrid supercapacitors. Carbon, 2021, 172, 613-623.	10.3	59
12	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.	5.6	17
13	Data on the microstructure and deformation of Fe50Mn25Cr15Co10Nx (x=0â¼1.6) supporting the modifications of partial-dislocation-induced defects (PDIDs) and strength/ductility enhancement in metastable high entropy alloys. Data in Brief, 2021, 34, 106713.	1.0	8
14	Effect of residual nanocrystals on thermal stability and mechanical properties of metalloid-containing amorphous alloys. Materials Characterization, 2021, 173, 110914.	4.4	5
15	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, 1290.	2.9	22
16	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. Materials Chemistry and Physics, 2021, 262, 124265.	4.0	61
17	Interface strengthening of a roll-bonded two-ply Al/Cu sheet by short annealing. Materials Characterization, 2021, 174, 111021.	4.4	21
18	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.	5.6	51

#	Article	IF	Citations
19	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.	5.6	42
20	Binder free, robust and scalable CuO@GCE modified electrodes for efficient electrochemical water oxidation. Materials Chemistry and Physics, 2020, 239, 122321.	4.0	14
21	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.	5.6	41
22	Fabrication and electrochemical OER activity of Ag doped MoO3 nanorods. Materials Science in Semiconductor Processing, 2020, 107, 104818.	4.0	19
23	Electrochemical water splitting exploration of MnCo₂O₄, NiCo₂O₄ cobaltites. New Journal of Chemistry, 2020, 44, 17679-17692.	2.8	12
24	Synthesis of highly active biocompatible ZrO2 nanorods using a bioextract. Ceramics International, 2020, 46, 25915-25920.	4.8	74
25	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.	2.6	25
26	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.	2.6	53
27	Marigold flower like structured Cu2NiSnS4 electrode for high energy asymmetric solid state supercapacitors. Scientific Reports, 2020, 10, 19198.	3.3	61
28	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	10
29	Designing rational and cheapest SeO2 electrocatalyst for long stable water splitting process. Journal of Physics and Chemistry of Solids, 2020, 145, 109544.	4.0	10
30	Short-range order strengthening in boron-doped high-entropy alloys for cryogenic applications. Acta Materialia, 2020, 194, 366-377.	7.9	117
31	Ni doped Bi2WO6 for electrochemical OER activity. International Journal of Hydrogen Energy, 2020, 45, 18859-18866.	7.1	27
32	Correlation between mechanical properties and thermodynamic parameters of dual-fcc-phase CoCrFeCuxNi (xÂ=Â1, 1.71) and CoCu1.71FeMnNi. Materials Letters, 2020, 272, 127866.	2.6	14
33	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.	5.6	28
34	Neutral and alkaline chemical environment dependent synthesis of Mn3O4 for oxygen evolution reaction (OER). Materials Chemistry and Physics, 2020, 247, 122864.	4.0	16
35	Hydrothermal Methodâ€“Derived MnMoO₄ Crystals: Effect of Cationic Surfactant on Microstructures and Electrochemical Properties. ChemistrySelect, 2020, 5, 7728-7733.	1.5	7
36	Y2O3 nanorods for cytotoxicity evaluation. Ceramics International, 2020, 46, 20553-20557.	4.8	21

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37	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.	3.4	9
38	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.	5.6	34
39	Highly dispersed SmMn₂O₅ nanorods for electrochemical water oxidation reaction kinetics. Materials Research Express, 2019, 6, 095090.	1.6	11
40	Non-isothermal nano-crystallization kinetics in amorphous Ni55Nb35Si10 alloy. Transactions of Nonferrous Metals Society of China, 2019, 29, 358-364.	4.2	7
41	Effect of Intermetallic Compound Layer on Peel Strength and Crack Propagation Behavior in Cu/Al/Cu Clad Composites. Metals, 2019, 9, 1155.	2.3	15
42	Precipitation and decomposition in CoCrFeMnNi high entropy alloy at intermediate temperatures under creep conditions. Materialia, 2019, 8, 100445.	2.7	22
43	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. Materials Research Letters, 2019, 7, 503-509.	8.7	39
44	Novel SmMn2O5 hollow long nano-cuboids for electrochemical supercapacitor and water splitting applications. Vacuum, 2019, 166, 279-285.	3.5	32
45	Electrochemical Performance of Î²-Nis@Ni(OH)₂ Nanocomposite for Water Splitting Applications. ACS Omega, 2019, 4, 10302-10310.	3.5	36
46	Organic Datura metel Leaf Extract Mediated Inorganic Rare Earth La2O3 Nanocrystals Formation. Journal of Nanoscience and Nanotechnology, 2019, 19, 4033-4038.	0.9	3
47	Bi₂WO₆ and FeWO₄ Nanocatalysts for the Electrochemical Water Oxidation Process. ACS Omega, 2019, 4, 5241-5253.	3.5	43
48	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.	5.6	22
49	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.	3.5	30
50	Experimental investigation and phase diagram of CoCrMnNiâ€“Fe system bridging high-entropy alloys and high-alloyed steels. Journal of Alloys and Compounds, 2019, 785, 320-327.	5.5	32
51	Green synthesis and characterization of hexagonal shaped MgO nanoparticles using insulin plant () Tj ETQq1 1 0.784314 rgBT /Overlo Powder Technology, 2018, 29, 1685-1694.	4.1	83
52	Microstructural evolution and mechanical performance of carbon-containing CoCrFeMnNi-C high entropy alloys. Journal of Alloys and Compounds, 2018, 743, 115-125.	5.5	107
53	Green synthesis and characterization of zinc oxide nanoparticle using insulin plant (<i>Costus pictus) Tj ETQq1 1 0.784314 rgBT /Ov Sciences: Nanoscience and Nanotechnology, 2018, 9, 015008.	1.5	169
54	Microstructural stability and mechanical properties of equiatomic CoCrCuFeNi, CrCuFeMnNi, CoCrCuFeMn alloys. Materials Chemistry and Physics, 2018, 210, 120-125.	4.0	54

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55	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.	5.6	25
56	Dislocation creep behavior of CoCrFeMnNi high entropy alloy at intermediate temperatures. Materials Research Letters, 2018, 6, 689-695.	8.7	58
57	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	7
58	Microstructural Investigation of CoCrFeMnNi High Entropy Alloy Oxynitride Films Prepared by Sputtering Using an Air Gas. Metals and Materials International, 2018, 24, 1285-1292.	3.4	13
59	Effect of roll-bonding temperature on the strength and electrical conductivity of an Î±-brass-clad Cuâ€“1Cr alloy composite. Physics of Metals and Metallography, 2017, 118, 190-197.	1.0	2
60	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. Materials Research Letters, 2017, 5, 472-477.	8.7	78
61	Creep Behaviors of CrMnFeCoNi High Entropy Alloy at Intermediate Temperatures. Key Engineering Materials, 2017, 737, 21-26.	0.4	2
62	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	2
63	Residual Stress/Strain Effect on the Bending Properties of the Cu/Al/Cu Clad Plate. Key Engineering Materials, 2017, 737, 214-219.	0.4	0
64	Amorphization and nanocrystallization of Niâ€“Nb-Si Alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 396-401.	5.6	17
65	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.	5.6	96
66	Microstructure and Mechanical Properties of Equiatomic CrMnCoNiCu High Entropy Alloy. Materials Science Forum, 2017, 909, 39-43.	0.3	1
67	Structural and toxic effect investigation of vanadium pentoxide. Materials Science and Engineering C, 2016, 65, 419-424.	7.3	11
68	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.	5.6	54
69	Effect of final heat treatment on creep behaviors of Zr-Nb-Cu alloy cladding tubes. Metals and Materials International, 2016, 22, 216-221.	3.4	1
70	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.	2.2	9
71	Enhanced cell viability of hydroxyapatite nanowires by surfactant mediated synthesis and its growth mechanism. RSC Advances, 2016, 6, 25070-25081.	3.6	28
72	Influence of microstructure modification on the circumferential creep of Zrâ€“Nbâ€“Snâ€“Fe cladding tubes. Journal of Nuclear Materials, 2016, 468, 171-177.	2.7	11

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73	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.	5.6	46
74	Effect of Scrap Impurities on Microstructure and Mechanical Properties of Zr Alloys. Journal of the Korea Foundry Society, 2016, 36, 81-87.	0.2	1
75	Structural phase transitions in niobium oxide nanocrystals. Phase Transitions, 2015, 88, 897-906.	1.3	4
76	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.	3.4	5
77	Incubation and aging effect on cassiterite type tetragonal rutile SnO2 nanocrystals. Journal of Materials Science: Materials in Electronics, 2015, 26, 2305-2310.	2.2	4
78	Nd2O3: novel synthesis and characterization. Journal of Sol-Gel Science and Technology, 2015, 73, 511-517.	2.4	54
79	An environment benign biomimetic synthesis of mesoporous NiO concentric stacked doughnuts architecture. Microporous and Mesoporous Materials, 2015, 207, 185-194.	4.4	4
80	Structural, compositional and textural properties of monoclinic Î±-Bi2O3 nanocrystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 144, 281-286.	3.9	21
81	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.	0.3	2
82	Facile and novel synthetic method to prepare nano molybdenum and its catalytic activity. IET Nanobiotechnology, 2015, 9, 201-208.	3.8	2
83	Deformation and fracture of diffusion-bonded Cuâ€“Niâ€“Zn/Cuâ€“Cr layered composite. Materials & Design, 2015, 67, 42-49.	5.1	14
84	Rambutan peels promoted biomimetic synthesis of bioinspired zinc oxide nanochains for biomedical applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 250-258.	3.9	138
85	Apatite deposition and collagen coating effects in Ti-Al-V and Ti-Al-Nb alloys. Physics of Metals and Metallography, 2014, 115, 1307-1312.	1.0	3
86	Creep performance of Zr-1Nb-0.75Sn-0.1Fe cladding tubes with optimized Sn content. Physics of Metals and Metallography, 2014, 115, 1313-1317.	1.0	2
87	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.	0.2	0
88	Mechanical performance of oxidized Zr-Nb-O nuclear cladding tubes. Physics of Metals and Metallography, 2014, 115, 1281-1284.	1.0	3
89	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.	0.3	2
90	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.	5.6	67

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91	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.	7.3	261
92	Mechanochemical joining in cold roll-cladding of tri-layered Cu/Al/Cu composite and the interface cracking behavior. Materials & Design, 2014, 57, 625-631.	5.1	67
93	Novel Zirconium Nitride and Hydroxyapatite Nanocomposite Coating: Detailed Analysis and Functional Properties. ACS Applied Materials & Interfaces, 2014, 6, 9850-9857.	8.0	42
94	Inorganic complex intermediate Co₃O₄nanostructures using green ligation from natural waste resources. RSC Advances, 2014, 4, 44495-44499.	3.6	8
95	Rice husk ash nanosilica to inhibit human breast cancer cell line (3T3). Journal of Sol-Gel Science and Technology, 2014, 72, 198-205.	2.4	5
96	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.	4.1	8
97	Rambutan (Nephelium lappaceum L.) peel extract assisted biomimetic synthesis of nickel oxide nanocrystals. Materials Letters, 2014, 128, 170-174.	2.6	78
98	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.	2.2	44
99	Temperature dependent slip mode modification in Cuâ€“Al solid solution alloy single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 9-12.	5.6	13
100	Effect of heat treatment on the bending behavior of tri-layered Cu/Al/Cu composite plates. Materials & Design, 2013, 47, 590-598.	5.1	123
101	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.	5.1	27
102	Estimating interface bonding strength in clad metals using digital image correlation. Scripta Materialia, 2013, 68, 893-896.	5.2	16
103	Influence of fluorine substitution on the morphology and structure ofÂhydroxyapatite nanocrystals prepared by hydrothermal method. Materials Chemistry and Physics, 2013, 137, 967-976.	4.0	48
104	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.	5.1	63
105	Effect of Heat Treatment on the Bending Behavior of STS/Al/STS Hybrid Metal Plates. Advanced Materials Research, 2013, 813, 34-38.	0.3	0
106	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.	0.3	1
107	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.	1.0	2
108	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.	1.0	11

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109	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.	0.3	0
110	Template-Free Growth of Novel Hydroxyapatite Nanorings: Formation Mechanism and Their Enhanced Functional Properties. Crystal Growth and Design, 2012, 12, 3565-3574.	3.0	44
111	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.	3.4	21
112	Multifunctional properties of hydroxyapatite/titania bio-nano-composites: bioactivity and antimicrobial studies. Powder Technology, 2012, 228, 410-415.	4.2	39
113	Mechanical Reliability of Oxidized Zrâ€“1Nbâ€“1Snâ€“0.1Fe Alloy Nuclear Cladding Tubes. Advanced Science Letters, 2012, 15, 310-314.	0.2	3
114	Large scale synthesis of hydroxyapatite nanospheres by high gravity method. Chemical Engineering Journal, 2011, 173, 846-854.	12.7	55
115	Deformation behavior of cold-rolled and annealed Zrâ€“1.5Nb and Zrâ€“1.5Nbâ€“S alloys. Journal of Nuclear Materials, 2011, 414, 138-144.	2.7	4
116	Design and characterization of new Cu alloys to substitute Cuâ€“25%Ni for coinage applications. Materials & Design, 2011, 32, 1790-1795.	5.1	14
117	Design and mechanical characterization of a Zrâ€“Nbâ€“Oâ€“P alloy. Materials & Design, 2011, 32, 4270-4277.	5.1	18
118	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.	1.0	7
119	OUT-OF-PILE MECHANICAL PERFORMANCE AND MICROSTRUCTURE OF RECRYSTALLIZED ZR-1.5 NB-O-S ALLOYS. Nuclear Engineering and Technology, 2011, 43, 421-428.	2.3	1
120	Structural characterization of Laves-phase MgZn2 precipitated in Mg-Zn-Y alloy. Metals and Materials International, 2010, 16, 171-174.	3.4	27
121	Creep properties of annealed Zrâ€“Nbâ€“O and stress-relieved Zrâ€“Nbâ€“Snâ€“Fe cladding tubes and their performance comparison. Journal of Nuclear Materials, 2010, 404, 154-159.	2.7	13
122	Mechanical and electrical properties of Cu-Ag nanocomposites processed by equal channel angular pressing (ECAP). , 2010, , .		0
123	Effect of collagen treatment on the biocompatibility of β-Ti-14Mo-3Nb-3Al-0.2Si alloy. , 2010, , .		0
124	DEFORMATION BEHAVIORS OF THERMO-MECHANICALLY PROCESSED Zr-Nb-P ALLOYS. International Journal of Modern Physics B, 2009, 23, 1816-1821.	2.0	0
125	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.	2.0	3
126	Enhancement of plasticity in Zr-base bulk metallic glass by soft metal plating. Scripta Materialia, 2009, 61, 481-484.	5.2	36

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127	Circumferential creep properties of stress-relieved Zircaloy-4 and Zrâ€“Nbâ€“Snâ€“Fe cladding tubes. Journal of Nuclear Materials, 2009, 392, 63-69.	2.7	37
128	Ultrastructural observation of electron irradiation damage of lamellar bone. Journal of Materials Science: Materials in Medicine, 2009, 20, 959-965.	3.6	10
129	Nanostructural analysis of trabecular bone. Journal of Materials Science: Materials in Medicine, 2009, 20, 1419-1426.	3.6	23
130	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.	3.4	16
131	Effect of phosphorus on the mechanical behavior of a Zrâ€“Nb alloy. Journal of Nuclear Materials, 2009, 383, 270-273.	2.7	4
132	Coupled Analysis of Heat Transfer and Deformation in Equal Channel Angular Pressing of Al and Steel. Materials Transactions, 2009, 50, 40-43.	1.2	15
133	Effect of sulphur on the strengthening of a Zrâ€“Nb alloy. Journal of Nuclear Materials, 2008, 373, 16-21.	2.7	29
134	Ultrastructural analyses of nanoscale apatite biomimetically grown on organic template. Journal of Materials Research, 2008, 23, 478-485.	2.6	24
135	Biomimetic Deposition of Apatite on Zr-1Nb and Ti-6Al-4V. Materials Science Forum, 2007, 534-536, 1013-1016.	0.3	2
136	High-temperature deformation behavior and stress relaxation of Zrâ€“Tiâ€“Cuâ€“Niâ€“Be bulk metallic glass extracted from commercial golf club heads. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 130-133.	5.6	4
137	Mechanical properties and microstructure of commercial amorphous golf club heads made of Zrâ€“Tiâ€“Cuâ€“Niâ€“Be bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 126-129.	5.6	13
138	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.	5.6	4
139	Enhanced wear and fatigue properties of Tiâ€“6Alâ€“4V alloy modified by plasma carburizing/CrN coating. Journal of Materials Science: Materials in Medicine, 2007, 18, 925-931.	3.6	13
140	Spatial control of protein within biomimetically nucleated mineral. Biomaterials, 2006, 27, 1175-1186.	11.4	66
141	Creep and High Temperature Fatigue Resistance of Ti-6Al-4V Modified by Duplex Plasma Carburization/CrN Coating. Solid State Phenomena, 2006, 118, 515-520.	0.3	3
142	Stress-induced reorientation of hydrides and mechanical properties of Zircaloy-4 cladding tubes. Journal of Nuclear Materials, 2005, 340, 203-208.	2.7	49
143	Superplastic Behavior of Deformation Processed Cu-Ag Nanocomposites. , 2005, , 728-733.		0
144	Local Mineral and Matrix Changes Associated with Bone Adaptation and Microdamage. Materials Research Society Symposia Proceedings, 2005, 898, 1.	0.1	2

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145	Reorientation of Hydrides and Its Effect on the Mechanical Properties of Zr-Nb-Sn-Fe Cladding Tubes. Journal of Nuclear Science and Technology, 2005, 42, 219-224.	1.3	6
146	Deformation processing and strength/conductivity properties of Cuâ€“Feâ€“Ag microcomposites. Journal of Alloys and Compounds, 2005, 388, 69-74.	5.5	56
147	Interfacial structure of nanostructured Cuâ€“Nb filamentary composite fabricated by the bundling and drawing process. Philosophical Magazine Letters, 2004, 84, 515-523.	1.2	4
148	Creep behavior of copper-chromium in-situ composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 695-705.	2.2	9
149	Process Modelling of Equal Channel Angular Pressing for Ultrafine Grained Materials. Materials Transactions, 2004, 45, 2172-2176.	1.2	16
150	Microforming of Bulk Metallic Glasses: Constitutive Modelling and Applications. Materials Transactions, 2004, 45, 1228-1232.	1.2	10
151	Elevated temperature tensile properties and failure of a copper-chromium in situ composite. Journal of Materials Science, 2003, 38, 3437-3447.	3.7	6
152	Optimization of strength and ductility of 2024 Al by equal channel angular pressing (ECAP) and post-ECAP aging. Scripta Materialia, 2003, 49, 333-338.	5.2	227
153	Texture development and its effect on mechanical properties of an AZ61 Mg alloy fabricated by equal channel angular pressing. Acta Materialia, 2003, 51, 3293-3307.	7.9	508
154	Interfacial and twin boundary structures of nanostructured Cuâ€“Ag filamentary composites. Journal of Materials Research, 2003, 18, 2194-2202.	2.6	33
155	Enhancement of strength and superplasticity in a 6061 Al alloy processed by equal-channel-angular-pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3155-3164.	2.2	162
156	Deformation processing and mechanical properties of Cuâ€“Crâ€“X (X=Ag or Co) microcomposites. Journal of Materials Processing Technology, 2002, 130-131, 272-277.	6.3	30
157	Thermo-mechanical processing and properties of Cuâ€“Feâ€“Cr microcomposites. Journal of Materials Processing Technology, 2002, 130-131, 278-282.	6.3	26
158	Effect of the circumferential hydrides on the deformation and fracture of Zircaloy cladding tubes. Journal of Nuclear Materials, 2002, 303, 169-176.	2.7	42
159	Experimental and numerical analyses of indentation in single piece and split type specimens. Journal of Materials Science, 2002, 37, 29-34.	3.7	1
160	Title is missing!. Journal of Materials Science, 2002, 37, 1237-1245.	3.7	15
161	Effects of strain hardenability and strain-rate sensitivity on the plastic flow and deformation homogeneity during equal channel angular pressing. Journal of Materials Research, 2001, 16, 856-864.	2.6	90
162	Strength and conductivity of Cu-9Fe-1.2X (X = Ag or Cr) filamentary microcomposite wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 985-991.	2.2	37

#	Article	IF	Citations
163	Ductility and strain rate sensitivity of Zircaloy-4 nuclear fuel claddings. Journal of Nuclear Materials, 2001, 295, 21-26.	2.7	58
164	Heavily drawn Cuâ€“Feâ€“Ag and Cuâ€“Feâ€“Cr microcomposites. Journal of Materials Processing Technology, 2001, 113, 610-616.	6.3	50
165	Copper-Iron Filamentary Microcomposites. Advanced Engineering Materials, 2001, 3, 475-479.	3.5	23
166	Superplastic Behavior and Activation Energies for Plastic Flow in Cuâ€“Ag Mocrocomposites. Advanced Engineering Materials, 2001, 3, 909.	3.5	0
167	Title is missing!. Journal of Materials Science, 2001, 36, 5881-5884.	3.7	6
168	Cyclic stress-strain response and slip mode modification in fatigue of f.c.c. solid solutions. Scripta Materialia, 2001, 44, 995-1001.	5.2	28
169	Microstructure and conductivity of Cu-Nb microcomposites fabricated by the bundling and drawing process. Scripta Materialia, 2001, 44, 2509-2515.	5.2	38
170	Thermo-mechanical processing and properties of Cuâ€“9Feâ€“1.2Co microcomposite wires. Scripta Materialia, 2001, 45, 1295-1300.	5.2	25
171	Superplasticicity of Cuâ€“16 at.% Ag microcomposites. Journal of Materials Research, 2001, 16, 1822-1828.	2.6	7
172	Microstructural stability of Cuâ€“Nb microcomposite wires fabricated by the bundling and drawing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 281, 189-197.	5.6	41
173	Mechanical properties of Cu-Nb microcomposites fabricated by the bundling and drawing process. Scripta Materialia, 2000, 42, 737-742.	5.2	19
174	Microstructural and mechanical stability of Cu-6 wt. % Ag alloy. Journal of Materials Science, 2000, 35, 4557-4561.	3.7	25
175	Strength and ductility of heavily drawn bundled Cu-Nb filamentary microcomposite wires with various Nb contents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 2457-2462.	2.2	11
176	Influence of dynamic solute-dislocation interaction on high temperature ductility of Al-Mg alloys. Metals and Materials International, 2000, 6, 103-109.	0.2	0
177	Effect of Nb content on the strength of Cuâ€“Nb filamentary microcomposites. Journal of Materials Research, 2000, 15, 1889-1893.	2.6	18
178	Strength and Fracture of Cu-Based Filamentary Nanocomposites. Key Engineering Materials, 2000, 183-187, 1207-1212.	0.4	3
179	Strength and electrical conductivity of Cuâ€“9Feâ€“1.2Co filamentary microcomposite wires. Journal of Alloys and Compounds, 2000, 311, 265-269.	5.5	37
180	A model of the ductileâ€“brittle transition of partially crystallized amorphous Alâ€“Niâ€“Y alloys. Acta Materialia, 1999, 47, 2059-2066.	7.9	70

#	Article	IF	Citations
181	Mechanical stability and electrical conductivity of Cuâ€“Ag filamentary microcomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 264, 151-158.	5.6	86
182	Hydride formation by high temperature cathodic hydrogen charging method and its effect on the corrosion behavior of Zircaloy-4 tubes in acid solution. Journal of Nuclear Materials, 1998, 256, 124-130.	2.7	25
183	Yield strength of a heavily drawn Cu-20% Nb filamentary microcomposite. Scripta Materialia, 1998, 39, 1685-1691.	5.2	37
184	Influence of solute-dislocation interaction on the superplastic behavior and ductility of Al-Mg alloys. Scripta Materialia, 1998, 40, 217-222.	5.2	8
185	Microstructural stability and mechanical response of Cuâ€“Ag microcomposite wires. Acta Materialia, 1998, 46, 4111-4122.	7.9	144
186	Effect of fabrication method on the aging behavior of 6061 Al matrix composites reinforced with SiC whiskers. Metals and Materials International, 1997, 3, 33-39.	0.2	2
187	Effect of strain rate on the mechanical response of a Ti3Al-Nb-Mo alloy. Metals and Materials International, 1996, 2, 31-36.	0.2	2
188	Microstructure and stressâ€”strain responses of AlMgSi alloy matrix composites reinforced with 10 vol.% Al2O3 particulates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 221, 38-47.	5.6	31
189	On the stability of cold drawn, two-phase wires. Acta Metallurgica Et Materialia, 1995, 43, 3313-3323.	1.8	68
190	Dynamic mechanical response of a 1060 Al/Al2O3 composite. Journal of Materials Science, 1994, 29, 2987-2992.	3.7	22
191	Dynamic deformation behavior of Alî¸Znî¸Mgî¸Cu alloy matrix composites reinforced with 20 Vol.% SiC. Acta Metallurgica Et Materialia, 1993, 41, 2337-2351.	1.8	93
192	Latent hardening behavior of cyclically deformed Cu-16 at.%Al single crystals. Acta Metallurgica Et Materialia, 1992, 40, 397-412.	1.8	7
193	Faceted fatigue fracture and its relation to the crystallographic slip systems in Cu-16 at. Pct al single crystals. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 415-425.	1.4	19
194	FATIGUE CRACK INITIATION AND GROWTH BEHAVIOR OF Cu-16 at.% A1 SINGLE CRYSTALS. Fatigue and Fracture of Engineering Materials and Structures, 1991, 14, 143-169.	3.4	37
195	Cyclic deformation behaviour of Cu-16at.%Al single crystals part II: Cyclic hardening and slip band behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 128, 55-75.	5.6	47
196	A TEM study of dislocation structures in fatigued Cu-16 at.% A1 single crystals. Acta Metallurgica Et Materialia, 1990, 38, 2261-2274.	1.8	53
197	Mechanisms of slip mode modification in F.C.C. solid solutions. Acta Metallurgica Et Materialia, 1990, 38, 1581-1594.	1.8	293
198	Influence of dynamic strain aging on the transition of creep characteristics of a solid solution alloy at various temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 110, 125-130.	5.6	20

#	Article	IF	Citations
199	Influence of dynamic strain aging on the creep ductility of solid solution alloys. Materials Science and Engineering, 1987, 91, 137-142.	0.1	21
200	On the creep activation energies of alloys. Materials Science and Engineering, 1987, 86, 211-218.	0.1	15
201	Influence of dynamic strain aging on the stress exponent and the dislocation substructure for the creep of Alî—¸Mg alloys. Materials Science and Engineering, 1986, 82, 175-185.	0.1	26
202	Influence of dynamic strain aging on the dislocation substructure in a uniaxial tension test. Materials Science and Engineering, 1986, 79, 1-7.	0.1	48
203	Influence of dynamic strain aging on the apparent activation volume for deformation. Materials Science and Engineering, 1985, 76, 77-81.	0.1	35
204	Thermally activated deformation of Zircaloy-4. Journal of Nuclear Materials, 1984, 120, 1-5.	2.7	43
205	Influence of dynamic strain aging on the apparent activation energy for creep. Materials Science and Engineering, 1984, 64, L19-L21.	0.1	15
206	Elongation minimum and strain rate sensitivity minimum of zircaloy-4. Journal of Nuclear Materials, 1983, 116, 314-316.	2.7	46
207	Mechanical Properties of Oxidized Zr-1Nb-0.7Sn-0.1Fe Alloy Nuclear Cladding Tubes at High Temperatures. Advanced Materials Research, 0, 557-559, 1157-1160.	0.3	0
208	Nanocomposited and Functionally Graded ZrN/HA Coatings on cp-Ti by RF Magnetron Sputtering. Applied Mechanics and Materials, 0, 248, 37-42.	0.2	3
209	Creep Behaviors of Stress-Relieved and Annealed Zr-1Nb-0.7Sn-0.1Fe Nuclear Cladding Tubes at Intermediate Temperatures. Applied Mechanics and Materials, 0, 248, 343-348.	0.2	1
210	Mechanical Performance of Ti/Cu-8Ag/S20C Clad Composite Processed by High Pressure Torsioning (HPT). Advanced Materials Research, 0, 625, 323-327.	0.3	1
211	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, 0, 557-559, 1161-1165.	0.3	0
212	Mechanical Behavior of 3-ply Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Composite Plate Processed by Roll Bonding. Advanced Materials Research, 0, 813, 43-46.	0.3	0
213	Mechanical Properties and Microstructure of Cu-Ni-Zn/Cu-Cr/Cu-Ni-Zn Clad Plate Processed by High Pressure Torsioning (HPT). Advanced Materials Research, 0, 683, 318-321.	0.3	0
214	Microstructure and Mechanical Propertiesof Ti/Cu-Cr/S20C and Ti/Cu-Ag/S20C Clad Composites. Applied Mechanics and Materials, 0, 376, 153-157.	0.2	2
215	The Nature of Intermetallic Compounds and its Effect on Mechanical Properties of Cu/Al/Cu Clad Metals. Advanced Materials Research, 0, 951, 87-91.	0.3	3
216	Green Synthesis of Zinc Oxide Nanoparticles. Advanced Materials Research, 0, 952, 137-140.	0.3	15

#	Article	IF	Citations
217	Green Synthesis of Magnesium Oxide Nanoparticles. Advanced Materials Research, 0, 952, 141-144.	0.3	71
218	Microstructure and Deformability of Cast Zr-Nb-Fe-O Alloy with High Iron and Oxygen Content. Advanced Materials Research, 0, 977, 99-103.	0.3	0
219	Effect of Scrap: Sponge Ratio on Mechanical and Corrosion Properties of Zr-1Nb-0.7Sn-0.1Fe Alloy. Advanced Materials Research, 0, 977, 94-98.	0.3	1
220	Green Synthesis of Spinel Magnetite Iron Oxide Nanoparticles. Advanced Materials Research, 0, 1051, 39-42.	0.3	60
221	Effect of Heat Treatment on the Creep Properties of Zr-1Nb-0.12O Nuclear Cladding Tubes. Advanced Materials Research, 0, 1102, 3-6.	0.3	0
222	Effect of Heat Treatment on the Mechanical Properties and Interface Structure of 3-ply Ti/Cu/Ti Clad Composite. Advanced Materials Research, 0, 1102, 51-54.	0.3	1
223	Mechanical Performance and Ductility of Cu/Al/Cu Clad Metals. Advanced Materials Research, 0, 1102, 7-10.	0.3	0
224	Baddeleyite Type Monoclinic Zirconium Oxide Nanocrystals Formation. Advanced Materials Research, 0, 1102, 79-82.	0.3	0
225	Bending Behavior and Electrical Conductivity of Cu/Ni/Al/Ni/Cu Clad Composite. Materials Science Forum, 0, 909, 127-132.	0.3	1
226	Stress-Strain Responses of Multi-Phase CoCrCuMnNi and CoCrMnFeCu Alloys. Key Engineering Materials, 0, 765, 166-172.	0.4	1
227	Microstructure and Mechanical Properties of Equitomic CoCrFeCuNi High Entropy Alloy. Key Engineering Materials, 0, 765, 149-154.	0.4	5