

Chan Hung Shek

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218
papers

7,825
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39
h-index

82
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236
ext. papers

8,619
ext. citations

5.4
avg, IF

6.1
L-index

#	Paper	IF	Citations
218	Bulk metallic glasses. <i>Materials Science and Engineering Reports</i> , 2004 , 44, 45-89	30.9	1949
217	Recent developments in stainless steels. <i>Materials Science and Engineering Reports</i> , 2009 , 65, 39-104	30.9	1253
216	Recent advances in manganese oxide nanocrystals: fabrication, characterization, and microstructure. <i>Chemical Reviews</i> , 2012 , 112, 3833-55	68.1	188
215	On the thermodynamics and kinetics of electropulsing induced dissolution of ϵ -Mg ₁₇ Al ₁₂ phase in an aged Mg ₉ Al ₁₁ Zn alloy. <i>Acta Materialia</i> , 2009 , 57, 4797-4808	8.4	136
214	Recent advances in tin dioxide materials: some developments in thin films, nanowires, and nanorods. <i>Chemical Reviews</i> , 2014 , 114, 7442-86	68.1	128
213	Transformation evolution and infrared absorption spectra of amorphous and crystalline nano-Al ₂ O ₃ powders. <i>Scripta Materialia</i> , 1997 , 8, 605-610		127
212	Measurements of slow β -relaxations in metallic glasses and supercooled liquids. <i>Physical Review B</i> , 2007 , 75,	3.3	122
211	Insights into microstructural evolution from nanocrystalline SnO ₂ thin films prepared by pulsed laser deposition. <i>Physical Review B</i> , 2004 , 70,	3.3	111
210	Plasticity-improved Zr ₄₀ Ti ₄₀ Al bulk metallic glass matrix composites containing martensite phase. <i>Applied Physics Letters</i> , 2005 , 87, 051905	3.4	88
209	Effect of oxygen deficiency on the Raman spectra and hyperfine interactions of nanometer SnO ₂ . <i>Scripta Materialia</i> , 1999 , 11, 831-835		75
208	Grain growth in nanocrystalline SnO ₂ prepared by sol-gel route. <i>Scripta Materialia</i> , 1999 , 11, 887-893		72
207	Thermal and mechanical properties of Cu ₂₀ Zr ₈₀ Al bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 71-74	5.7	70
206	Synthesis and structural characterization of rutile SnO ₂ nanocrystals. <i>Journal of Materials Research</i> , 2003 , 18, 1289-1292	2.5	66
205	Irradiated Graphene Loaded with SnO ₂ Quantum Dots for Energy Storage. <i>ACS Nano</i> , 2015 , 9, 11351-61	16.7	63
204	Hierarchical mesoporous MnO ₂ superstructures synthesized by soft-interface method and their catalytic performances. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9776-84	9.5	62
203	Grain growth kinetics of nanocrystalline SnO ₂ for long-term isothermal annealing. <i>Scripta Materialia</i> , 2003 , 49, 441-446	5.6	60
202	Compositional dependence of phase formation and mechanical properties in three CoCrFeNi-(Mn/Al/Cu) high entropy alloys. <i>Intermetallics</i> , 2016 , 79, 1-11	3.5	60

201	Friction-stir welding of a ductile high entropy alloy: microstructural evolution and weld strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 524-532	5.3	60
200	Friction stir welding of a CoCrFeNiAl _{0.3} high entropy alloy. <i>Materials Letters</i> , 2017 , 205, 142-144	3.3	56
199	Microstructural evolution of oxides and semiconductor thin films. <i>Progress in Materials Science</i> , 2011 , 56, 901-1029	42.2	56
198	Effect of electropulsing treatment on solid solution behavior of an aged Mg alloy AZ61 strip. <i>Journal of Materials Research</i> , 2008 , 23, 2685-2691	2.5	55
197	Microstructure and texture evolution of the cold-rolled AZ91 magnesium alloy strip under electropulsing treatment. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4308-4313	5.7	54
196	Fe-species-loaded mesoporous MnO ₂ superstructural requirements for enhanced catalysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3949-59	9.5	53
195	Insight on fractal assessment strategies for tin dioxide thin films. <i>ACS Nano</i> , 2010 , 4, 1202-8	16.7	53
194	Nanomicrostructure, chemical stability and abnormal transformation in ultrafine particles of oxidized tin. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 13-17	3.9	53
193	Mechanism of electropulsing induced recrystallization in a cold-rolled Mg ₉₀ Al ₁₀ Zn alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 536, 94-105	5.7	50
192	Synthesis of an Fe rich amorphous structure with a catalytic effect to rapidly decolorize Azo dye at room temperature. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5500-5	9.5	49
191	Annealing effect on the phase stability and mechanical properties of (FeNiCrMn) _{100-x} Co high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2945-2950	5.7	48
190	Assembling tin dioxide quantum dots to graphene nanosheets by a facile ultrasonic route. <i>Langmuir</i> , 2013 , 29, 4111-8	4	47
189	Shape-controlled synthesis and nanostructure evolution of single-crystal Mn ₃ O ₄ nanocrystals. <i>Scripta Materialia</i> , 2006 , 55, 735-738	5.6	47
188	Friction welding of Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass. <i>Scripta Materialia</i> , 2003 , 49, 393-397	5.6	47
187	Surface modification of polymeric materials by plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 237, 417-421	1.2	46
186	Composition optimization of the Cu-based Cu ₂ CrAl alloys. <i>Intermetallics</i> , 2004 , 12, 1229-1232	3.5	45
185	Composition optimization of the Al _{100-x} Zr bulk metallic glasses. <i>Scripta Materialia</i> , 2004 , 50, 829-833	5.6	44
184	Abrasive wear of Cu ₆₀ Zr ₃₀ Ti ₁₀ bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 384, 138-142	5.3	42

- 183 Effects of Hf on the microstructure and mechanical properties of CoCrFeNi high entropy alloy. *Journal of Alloys and Compounds*, **2020**, 827, 154159 5.7 41
- 182 Mechanical heterogeneity and mechanism of plasticity in metallic glasses. *Applied Physics Letters*, **2009**, 94, 031904 3.4 41
- 181 Investigation of interface defects in nanocrystalline SnO₂ by positron annihilation. *Journal of Physics and Chemistry of Solids*, **1999**, 60, 189-193 3.9 41
- 180 Multifractal spectra of scanning electron microscope images of SnO₂ thin films prepared by pulsed laser deposition. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 345, 218-223 2.3 40
- 179 Microstructure evolution and advanced performance of Mn₃O₄ nanomorphologies. *Nanoscale*, **2012**, 4, 2590-6 7.7 39
- 178 Influence of electropulsing treatment on microstructure and mechanical properties of cold-rolled Mg₉Al₁₀Zn alloy strip. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 5627-5635 5.3 39
- 177 Abrasion resistance of Cu based bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2004**, 347, 268-272 3.9 37
- 176 Effect of electropulsing treatment on microstructure and tensile fracture behavior of aged Mg₉Al₁₀Zn alloy strip. *Applied Physics A: Materials Science and Processing*, **2009**, 97, 607-615 2.6 35
- 175 Influence of grain size on the vibrational properties in Mn₂O₃ nanocrystals. *Journal of Non-Crystalline Solids*, **2006**, 352, 3285-3289 3.9 35
- 174 D-Band Micromachined Silicon Rectangular Waveguide Filter. *IEEE Microwave and Wireless Components Letters*, **2012**, 22, 230-232 2.6 34
- 173 Facile strategy and mechanism for orthorhombic SnO₂ thin films. *Applied Physics Letters*, **2006**, 89, 231902 3.4 34
- 172 Corrosion behavior and glass-forming ability of Cu₄₇Al₁₀Ni₁₀ alloys. *Journal of Non-Crystalline Solids*, **2007**, 353, 3596-3599 3.9 33
- 171 Nucleation site and mechanism leading to growth of bulk-quantity Mn₃O₄ nanorods. *Applied Physics Letters*, **2005**, 86, 181911 3.4 33
- 170 Observation of secondary relaxation in a fragile Pd₄₀Ni₁₀Cu₃₀P₂₀ bulk metallic glass. *Applied Physics Letters*, **2006**, 89, 071920 3.4 32
- 169 Electropulsing Induced Texture Evolution in the Recrystallization of Fe-3 Pct Si Alloy Strip. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 3484-3490 2.3 31
- 168 Optimum Zr₅₃Al_{23.5}Co_{23.5} bulk metallic glass composition Zr₅₃Al_{23.5}Co_{23.5}. *Intermetallics*, **2004**, 12, 1275-1278 3.5 31
- 167 The e/a Criterion for the Largest Glass-forming Abilities of the Zr-Al-Ni(Co) Alloys. *Materials Transactions*, **2004**, 45, 1180-1183 1.3 31
- 166 The e/a-constant Hume-Rothery phases in an As-cast Zr₆₅Al_{7.5}Ni₁₀Cu_{17.5} alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 291, 78-85 5.3 31

165	Effect of Nb content on the microstructure and mechanical properties of Zr ₄₀ Cu ₂₀ Ni ₂₀ Al ₁₀ Nb glass forming alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 403, 239-244	5.7	30
164	The e/a factor governing the formation and stability of (Zr ₇₆ Ni ₂₄) _{1-x} Al _x bulk metallic glasses. <i>Scripta Materialia</i> , 2003 , 48, 1525-1529	5.6	30
163	Composition Rules from Electron Concentration and Atomic Size Factors in Zr-Al-Cu-Ni Bulk Metallic Glasses. <i>Materials Transactions</i> , 2004 , 45, 1177-1179	1.3	29
162	Improved ductility of aged Mg-9Al-1Zn alloy strip by electropulsing treatment. <i>Journal of Materials Research</i> , 2009 , 24, 1810-1814	2.5	28
161	Oxidation behavior of Cu ₆₀ Zr ₃₀ Ti ₁₀ bulk metallic glass. <i>Journal of Materials Research</i> , 2005 , 20, 1396-1403	4.3	28
160	Preparation of nanocomposite working substances for room-temperature magnetic refrigeration. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 163, 103-108	2.8	28
159	Effects of annealing on mechanical behavior of Zr ₄₀ Ti ₂₀ Ni thin film metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 608, 258-264	5.3	27
158	Heterojunctions and optical properties of ZnO/SnO ₂ nanocomposites adorned with quantum dots. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 254-259	6.4	27
157	Review of temperature indicators and the use of duplex stainless steels for life assessment. <i>Materials Science and Engineering Reports</i> , 1997 , 19, 153-200	30.9	27
156	Nucleation and growth of SnO ₂ nanocrystallites prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 959-962	2.6	27
155	Single photon sources with single semiconductor quantum dots. <i>Frontiers of Physics</i> , 2014 , 9, 170-193	3.7	25
154	Effects of pretreatment by ion implantation and interlayer on adhesion between aluminum substrate and TiN film. <i>Thin Solid Films</i> , 2005 , 493, 152-159	2.2	25
153	Zr ₄₀ Ti ₂₀ Ni thin film metallic glass as a diffusion barrier between copper and silicon. <i>Journal of Materials Science</i> , 2015 , 50, 2085-2092	4.3	24
152	Fractal fracture of amorphous Fe ₄₆ Ni ₃₂ V ₂ Si ₁₄ B ₆ alloy. <i>Journal of Non-Crystalline Solids</i> , 1998 , 224, 244-248	3.48	23
151	Corrosion behavior of glassy Ni ₅₅ Co ₅ Nb ₂₀ Ti ₁₀ Zr ₁₀ alloy in 1N HCl solution studied by potentiostatic polarization and XPS. <i>Corrosion Science</i> , 2006 , 48, 625-633	6.8	22
150	Formation of orthorhombic SnO ₂ originated from lattice distortion by Mn-doped tetragonal SnO ₂ . <i>RSC Advances</i> , 2015 , 5, 39285-39290	3.7	21
149	Al-induced crystallization of amorphous Ge and formation of fractal Ge micro-/nanoclusters. <i>Inorganic Chemistry</i> , 2012 , 51, 8473-8	5.1	21
148	Statistic Analysis of the Mechanical Behavior of Bulk Metallic Glasses. <i>Advanced Engineering Materials</i> , 2009 , 11, 370-373	3.5	21

147	Hot tensile properties of 25Cr-8Ni duplex stainless steel containing cellular (β) structure after various thermal treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 231, 42-47	5.3	21
146	Formation, thermal stability and deformation behavior of graphite-flakes reinforced Cu-based bulk metallic glass matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 132-138	5.3	21
145	Enhancing plasticity of Zr _{46.75} Ti _{8.25} Cu _{7.5} Ni ₁₀ Be _{27.5} bulk metallic glass by precompression. <i>Applied Physics Letters</i> , 2009 , 95, 071906	3.4	20
144	Sm-based Sm-Al-Ni ternary bulk metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 573-577	2.5	20
143	Formation and corrosion behavior of glassy Ni ₄₀ Nb ₁₀ Ti ₁₀ Zr ₂₀ (Cu) alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 240-243	5.7	19
142	Effects of pre-compression deformation on nanoindentation response of Zr ₆₅ Cu ₁₅ Al ₁₀ Ni ₁₀ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 674, 223-228	5.7	19
141	Effect of Electropulsing on Recrystallization and Mechanical Properties of Silicon Steel Strips. <i>Journal of Materials Science and Technology</i> , 2011 , 27, 1034-1038	9.1	18
140	Stress-induced martensitic transformations in CuZrAl bulk metallic glass forming alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 479, 31-36	5.3	18
139	Quantum dot formation and dynamic scaling behavior of SnO ₂ nanocrystals induced by pulsed delivery. <i>Applied Physics Letters</i> , 2006 , 88, 033115	3.4	18
138	High-resolution transmission electron microscopy investigation of nanostructures in SnO ₂ thin films prepared by pulsed laser deposition. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 892-896	3.3	18
137	Production of amorphous tin oxide thin films and microstructural transformation induced by heat treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1073-1076	2.6	18
136	Electropulsing-induced G-texture evolution in a deformed Fe ₃ Si alloy strip. <i>Journal of Materials Research</i> , 2011 , 26, 917-922	2.5	17
135	Pulsed Laser Ablation for Tin Dioxide: Nucleation, Growth, and Microstructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2008 , 33, 197-209	10.1	17
134	Crystallization and corrosion resistance of Cu ₅₀ Zr ₄₅ Al ₅ bulk amorphous alloy. <i>Materials Chemistry and Physics</i> , 2006 , 100, 34-37	4.4	17
133	Microstructural changes and fractal Ge nanocrystallites in polycrystalline Au/amorphous Ge thin bilayer films upon annealing. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4544-4548	3	17
132	Relaxation and crystallization of Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni ₁₀ Be _{22.5} bulk amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 364, 198-201	5.3	17
131	An analysis of the grain growth kinetics in Mn ₂ O ₃ nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 703-707	2.6	17
130	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. <i>Acta Materialia</i> , 2018 , 155, 69-79	8.4	16

129	Effect of Electropulsing on Recrystallization of Fe-3%Si Alloy Strip. <i>Materials Transactions</i> , 2010 , 51, 1390-1394	16	1390-1394
128	Magnetic and transformation behaviour of duplex stainless steels under non-isothermal conditions and temperature-fluctuation monitoring. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 149-160	5.3	16
127	Brittleness of Zr-based bulk metallic glass matrix composites containing ductile dendritic phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 406, 57-62	5.3	16
126	Nucleation mechanism and microstructural assessment of SnO ₂ nanowires prepared by pulsed laser deposition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 345, 391-397	2.3	16
125	Enhanced Plasticity of Zr-based Bulk Metallic Glass Matrix Composite with Ductile Reinforcement. <i>Journal of Materials Research</i> , 2005 , 20, 2386-2390	2.5	16
124	Effects of pre-treatment on the ac magnetic susceptibility and ageing behaviour of duplex stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 78-86	5.3	15
123	Effects of niobium on thermal stability and corrosion behavior of glassy Cu ₄₀ Zr ₄₀ Ni ₁₀ Al ₁₀ alloys. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 762-766	3.9	15
122	Mystery of porous SnO ₂ thin film formation by pulsed delivery. <i>Chemical Physics Letters</i> , 2006 , 422, 1-5	2.5	15
121	Dilatometric measurements and calculation of effective pair potentials for Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass. <i>Materials Letters</i> , 2003 , 57, 1229-1232	3.3	15
120	Creep properties of aged duplex stainless steels containing β phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 266, 30-36	5.3	15
119	β phase dissolution in duplex stainless steel at elevated temperature studied by thermal analysis. <i>Materials Letters</i> , 2008 , 62, 3991-3994	3.3	14
118	Formation, thermal stability and corrosion behavior of glassy Ti ₄₅ Zr ₅ Cu ₄₅ Ni ₅ alloy. <i>Intermetallics</i> , 2007 , 15, 683-686	3.5	14
117	Nanocrystals formation and fractal microstructural assessment in Au/Ge bilayer films upon annealing. <i>Applied Surface Science</i> , 2005 , 250, 3-8	6.7	14
116	Facile fabrication and application of SnO ₂ /ZnO nanocomposites: insight into chain-like frameworks, heterojunctions and quantum dots. <i>RSC Advances</i> , 2016 , 6, 82096-82102	3.7	13
115	The oxidation behavior of Cu ₄₂ Zr ₄₂ Al ₈ Ag ₈ bulk metallic glasses. <i>Journal of Materials Science</i> , 2013 , 48, 1141-1146	4.3	13
114	Relaxation behavior on high frequency profile in strong/fragile metallic glass-forming systems. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1198-1200	3.9	13
113	Evolution of electronic structure and spectral evaluation in single-crystal Mn ₃ O ₄ nanorods. <i>Journal of Chemical Physics</i> , 2006 , 124, 184707	3.9	13
112	Effect of process parameters on microstructure and mechanical properties of friction stir welded CoCrFeNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 782, 139277	5.3	12

111	Magnetic behavior of Gd ₄ Co ₃ metallic glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 326, 157-161	2.8	12
110	Compressive and tensile properties of CuZrAl alloy plates containing martensitic phases. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 517, 375-380	5.3	12
109	Spatial fractal characteristic of spinodal decomposition in Fe-Cr-Ni duplex stainless steel. <i>Scripta Materialia</i> , 1997 , 37, 529-533	5.6	12
108	Fractal structure and optical properties of semicontinuous silver films. <i>Thin Solid Films</i> , 1997 , 300, 1-5	2.2	12
107	Corrosion behavior of a glassy Ti ₂₀ Zr ₁₀ Hf ₁₀ Ni ₅ Bi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 557-560	5.3	12
106	Oxidation-induced copper segregation in Cu ₆₀ Zr ₃₀ Ti ₁₀ bulk metallic glass. <i>Journal of Materials Research</i> , 2006 , 21, 851-855	2.5	12
105	Effect of quasicrystalline phase on the deformation behavior of Zr ₆₂ Al _{9.5} Ni _{9.5} Cu ₁₄ Nb ₅ bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 398, 22-27	5.3	12
104	Recent research situation in tin dioxide nanomaterials: synthesis, microstructures, and properties. <i>Frontiers of Materials Science</i> , 2013 , 7, 203-226	2.5	11
103	G-band rectangular waveguide filter fabricated using deep reactive ion etching and bonding processes. <i>Micro and Nano Letters</i> , 2012 , 7, 1237-1240	0.9	11
102	Compressive ductility and fracture resistance in CuZr-based shape-memory metallic-glass composites. <i>International Journal of Plasticity</i> , 2020 , 128, 102687	7.6	10
101	Electroplastic forming in a Fe-based metallic glass ribbon. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 795-799	5.7	10
100	Structure and magnetic behaviors of Gd ₆ FeBi ₂ compound. <i>Intermetallics</i> , 2016 , 68, 51-56	3.5	10
99	Effects of electropulsing treatment on mechanical properties in Ti rich TiNi shape memory alloy. <i>Materials Science and Technology</i> , 2013 , 29, 1135-1138	1.5	10
98	The interface character distribution of cold-rolled and annealed duplex stainless steel. <i>Materials Characterization</i> , 2016 , 118, 397-404	3.9	9
97	Rapid thermoplastic formation of Fe-based metallic glass foil achieved by electropulsing. <i>Materials Letters</i> , 2014 , 136, 353-355	3.3	9
96	Oxidation behavior of Zr ₅₆ Co ₂₈ Al ₁₆ bulk metallic glasses. <i>Corrosion Science</i> , 2012 , 65, 528-534	6.8	9
95	Electron-Beam Irradiation Strategies for Growth Behavior of Tin Dioxide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20523-20528	3.8	9
94	Silver mushroom induced by oxidation in Cu ₄₂ Zr ₄₂ Al ₈ Ag ₈ metallic glasses. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S219-S222	5.7	9

93	Polycondensation-type Ge nanofractal assembly. <i>Materials Today</i> , 2011 , 14, 106-113	21.8	9
92	Exploring the microstructural and electrical properties of SnO ₂ nanorods prepared by a widely applicable route. <i>Acta Materialia</i> , 2009 , 57, 4632-4637	8.4	9
91	Defect evolution of nanocrystalline SnO ₂ thin films induced by pulsed delivery during in situ annealing. <i>Acta Materialia</i> , 2009 , 57, 5078-5082	8.4	9
90	Design of soft magnetic CoSiB metallic glass with low Co contents. <i>Journal of Applied Physics</i> , 2011 , 110, 083919	2.5	9
89	Positron lifetime study of vacancy-type defects in amorphous and polycrystalline nanometer-sized alumina. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, 413-418	2.6	9
88	Effects of alloying on oxidation of Cu-based bulk metallic glasses. <i>Journal of Materials Research</i> , 2005 , 20, 2647-2653	2.5	9
87	Texture analysis of grain refinement in undercooled Ni _{99.45} B _{0.55} . <i>Journal of Materials Research</i> , 2001 , 16, 1434-1438	2.5	9
86	Gold-rich ligament nanostructure by dealloying Au-based metallic glass ribbon for surface-enhanced Raman scattering. <i>Scientific Reports</i> , 2017 , 7, 7485	4.9	8
85	Abnormal thermal expansion, multiple transitions, magnetocaloric effect, and electronic structure of Gd ₆ Co _{4.85} . <i>Journal of Applied Physics</i> , 2015 , 118, 133903	2.5	8
84	Probing into interesting effects of fractal Ge nanoclusters induced by Pd nanoparticles. <i>Inorganic Chemistry</i> , 2011 , 50, 6756-61	5.1	8
83	Bulk-quantity synthesis and electrical properties of SnO ₂ nanowires prepared by pulsed delivery. <i>Materials Chemistry and Physics</i> , 2009 , 115, 660-663	4.4	8
82	Interdiffusion assessment of nanoparticles in fat fractal patterns. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2726-2729	3	8
81	Effect of composition and cooling rate on structures and properties of quenched or cast Al _{100-x} Fe alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 357, 20-26	5.3	8
80	Magnetic and ageing behaviour of 7MoPLUS and the viability of monitoring ferrite decomposition using AC magnetic susceptibility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 406, 110-118	5.3	8
79	Transition from superparamagnetism to ferromagnetic single-domain in a Heisenberg model for nano-cluster magnetic system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 276, 201-214	3.3	8
78	The transformation characteristics of ferrite in a cast of duplex stainless steel and its applications in temperature measurement. <i>Materials at High Temperatures</i> , 1992 , 10, 60-62	1.1	8
77	CoCuFeNi high entropy alloy reinforced by in-situ W particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 140218	5.3	8
76	High temperature deformation behavior of Mg ₆₇ Zn ₂₈ Ca ₅ metallic glass and its composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 621, 1-7	5.3	7

75	3D Nanoporous Gold with Very Low Parting Limit Derived from Au-Based Metallic Glass and Enhanced Methanol Electro-oxidation Catalytic Performance Induced by Metal Migration. <i>ChemNanoMat</i> , 2018 , 4, 88-97	3.5	7
74	Atomic-level structures and physical properties of magnetic CoSiB metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 352, 49-55	2.8	7
73	Vertical-external-cavity surface-emitting lasers and quantum dot lasers. <i>Frontiers of Optoelectronics</i> , 2012 , 5, 157-170	2.8	7
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