

Chuang Dong

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335
papers

8,835
citations

47
h-index

82
g-index

340
ext. papers

9,884
ext. citations

3.9
avg, IF

6.13
L-index

#	Paper	IF	Citations
335	Bulk metallic glasses. <i>Materials Science and Engineering Reports</i> , 2004 , 44, 45-89	30.9	1949
334	From clusters to phase diagrams: composition rules of quasicrystals and bulk metallic glasses. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, R273-R291	3	169
333	Surface treatment by high current pulsed electron beam. <i>Surface and Coatings Technology</i> , 2003 , 163-164, 620-624	4.4	142
332	Controlled formation of coherent cuboidal nanoprecipitates in body-centered cubic high-entropy alloys based on Al ₂ (Ni,Co,Fe,Cr) ₁₄ compositions. <i>Acta Materialia</i> , 2018 , 147, 213-225	8.4	139
331	Influence of alloy components on electromagnetic characteristics of core/shell-type Fe/Ni nanoparticles. <i>Journal of Applied Physics</i> , 2008 , 104, 114313	2.5	132
330	Mechanisms of nanostructure and metastable phase formations in the surface melted layers of a HCPEB-treated D2 steel. <i>Acta Materialia</i> , 2006 , 54, 5409-5419	8.4	120
329	A new icosahedral quasicrystal in rapidly solidified FeTi ₂ . <i>Scripta Metallurgica</i> , 1986 , 20, 1155-1158		111
328	Improved pitting corrosion resistance of AISI 316L stainless steel treated by high current pulsed electron beam. <i>Surface and Coatings Technology</i> , 2006 , 201, 1393-1400	4.4	109
327	Temperature/stress fields and related phenomena induced by a high current pulsed electron beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 225, 544-554	1.2	109
326	Bulk metallic glasses in the Zr-Al-Ni-Cu system. <i>Acta Materialia</i> , 2003 , 51, 1899-1907	8.4	108
325	Mechanisms of hardening, wear and corrosion improvement of 316L stainless steel by low energy high current pulsed electron beam surface treatment. <i>Thin Solid Films</i> , 2010 , 519, 1404-1415	2.2	106
324	Texture modification, grain refinement and improved hardness/corrosion balance of a FeAl alloy by pulsed electron beam surface treatment in the heating mode. <i>Scripta Materialia</i> , 2008 , 58, 1058-1061	5.6	102
323	Amorphous TiO ₂ films with high refractive index deposited by pulsed bias arc ion plating. <i>Surface and Coatings Technology</i> , 2007 , 201, 7252-7258	4.4	100
322	A cuboidal B ₂ nanoprecipitation-enhanced body-centered-cubic alloy Al _{0.7} CoCrFe ₂ Ni with prominent tensile properties. <i>Scripta Materialia</i> , 2016 , 120, 85-89	5.6	86
321	Surface modification of steels and magnesium alloy by high current pulsed electron beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 240, 646-652	1.2	82
320	Chemical short-range orders and the induced structural transition in high-entropy alloys. <i>Scripta Materialia</i> , 2018 , 144, 64-68	5.6	78
319	Effect of high current pulsed electron beam treatment on surface microstructure and wear and corrosion resistance of an AZ91HP magnesium alloy. <i>Surface and Coatings Technology</i> , 2007 , 201, 6297-6303	4.4	78

3 ¹⁸	The orthorhombic approximant phases of the decagonal phase. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 65, 107-126		78
3 ¹⁷	Selective surface purification via crater eruption under pulsed electron beam irradiation. <i>Applied Physics Letters</i> , 2006 , 89, 041913	3-4	77
3 ¹⁶	The BCC/B2 Morphologies in Al _x NiCoFeCr High-Entropy Alloys. <i>Metals</i> , 2017 , 7, 57	2-3	76
3 ¹⁵	Surface modification of pure titanium by pulsed electron beam. <i>Applied Surface Science</i> , 2011 , 257, 5899-5902	6-7	74
3 ¹⁴	Ternary bulk metallic glasses formed by minor alloying of Cu ₈ Zr ₅ icosahedron. <i>Applied Physics Letters</i> , 2006 , 88, 101907	3-4	74
3 ¹³	Improved in vitro corrosion resistance of a NiTi alloy by high current pulsed electron beam treatment. <i>Surface and Coatings Technology</i> , 2006 , 201, 3096-3102	4-4	73
3 ¹²	Temperature profile and crater formation induced in high-current pulsed electron beam processing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, 1934-1938	2-9	69
3 ¹¹	Effect of heat treatment on the corrosion resistance and mechanical properties of an as-forged Mg ₇₀ Ni ₃₀ Zr alloy. <i>Corrosion Science</i> , 2015 , 92, 228-236	6-8	68
3 ¹⁰	The e/a values of ideal metallic glasses in relation to cluster formulae. <i>Acta Materialia</i> , 2011 , 59, 5917-5923	2-3	67
3 ⁰⁹	Ni ₇₀ Al ₃₀ binary bulk metallic glasses. <i>Scripta Materialia</i> , 2010 , 63, 178-180	5-6	66
3 ⁰⁸	Optimization of bulk metallic glass forming compositions in Zr ₄₀ Cu ₄₀ Al system by thermodynamic modeling. <i>Intermetallics</i> , 2007 , 15, 716-721	3-5	66
3 ⁰⁷	Surface modification of Al ₂₀ Si alloy by high current pulsed electron beam. <i>Applied Surface Science</i> , 2011 , 257, 3913-3919	6-7	64
3 ⁰⁶	Design of Cu ₈ Zr ₅ -based bulk metallic glasses. <i>Applied Physics Letters</i> , 2006 , 88, 241913	3-4	61
3 ⁰⁵	Surface nanostructure and amorphous state of a low carbon steel induced by high-current pulsed electron beam. <i>Surface and Coatings Technology</i> , 2005 , 196, 145-149	4-4	60
3 ⁰⁴	Numerical simulation of the thermal-mechanical process of high current pulsed electron beam treatment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 545	2-9	58
3 ⁰³	Understanding the Cu-Zn brass alloys using a short-range-order cluster model: significance of specific compositions of industrial alloys. <i>Scientific Reports</i> , 2014 , 4, 7065	4-9	57
3 ⁰²	High current pulsed electron beam treatment of AZ31 Mg alloy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 1548-1553	2-9	57
3 ⁰¹	Cluster line criterion and Cu ₄₀ Zr ₄₀ Al bulk metallic glass formation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 18-23	5-3	55

300	Mechanisms of structural evolutions associated with the high current pulsed electron beam treatment of a NiTi shape memory alloy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 28-36	2.9	55
299	Composition rule of bulk metallic glasses and quasicrystals using electron concentration criterion. <i>Journal of Materials Research</i> , 2003 , 18, 642-648	2.5	55
298	Structural Stabilities of Ti Alloys Studied Using a New Mo Equivalent Derived from $\frac{V}{Ti}$ Phase-Boundary Slopes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3440-3447	2.3	54
297	Microstructure and properties of laser clad Zr-based alloy coatings on Ti substrates. <i>Surface and Coatings Technology</i> , 2004 , 176, 284-289	4.4	54
296	Microstructure and property modifications in a near Ti alloy induced by pulsed electron beam surface treatment. <i>Surface and Coatings Technology</i> , 2011 , 206, 295-304	4.4	50
295	Cross-sectional analysis of the graded microstructure in an AISI D2-steel treated with low energy high-current pulsed electron beam. <i>Applied Surface Science</i> , 2009 , 255, 4758-4764	6.7	50
294	Surface treatment of aluminum by high current pulsed electron beam. <i>Current Applied Physics</i> , 2001 , 1, 203-208	2.6	50
293	Microstructure modifications and associated hardness and corrosion improvements in the AISI 420 martensitic stainless steel treated by high current pulsed electron beam (HCPEB). <i>Surface and Coatings Technology</i> , 2014 , 259, 737-745	4.4	49
292	Surface modification of Al ₂ Si alloy by high current pulsed electron beam. <i>Applied Surface Science</i> , 2012 , 258, 2052-2056	6.7	49
291	Surface treatment of DZ4 directionally solidified nickel-based superalloy by high current pulsed electron beam. <i>Materials Letters</i> , 2008 , 62, 414-417	3.3	49
290	Texture and Microstructure at the Surface of an AISI D2 Steel Treated by High Current Pulsed Electron Beam. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2061-2071	2.3	49
289	The concept of the approximants of quasicrystals. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 239-243		49
288	Formation and evolution of craters in carbon steels during low-energy high-current pulsed electron-beam treatment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 1217-1226	2.9	47
287	Composition optimization of the Cu-based Cu ₃ ZrAl alloys. <i>Intermetallics</i> , 2004 , 12, 1229-1232	3.5	45
286	Deep Modification of materials by thermal stress wave generated by irradiation of high-current pulsed electron beams. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 430-435	2.9	44
285	Composition optimization of the Al ₂₀ Zr bulk metallic glasses. <i>Scripta Materialia</i> , 2004 , 50, 829-833	5.6	44
284	Grain refinement, hardening and metastable phase formation by high current pulsed electron beam (HCPEB) treatment under heating and melting modes. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S508-S511	5.7	43
283	Orientation-dependent deformation on 316L stainless steel induced by high-current pulsed electron beam irradiation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 302-305	5.3	43

282	Improved wear resistance of Al ₅ Si alloy with a high current pulsed electron beam treatment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1499-1505	1.2	42
281	The $\overline{\text{Al}}_4\text{Cu}_9$ phase as an approximant of quasicrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 73, 1519-1528		42
280	Composition design procedures of Ti-based bulk metallic glasses using the cluster-plus-glass-atom model. <i>Acta Materialia</i> , 2016 , 111, 366-376	8.4	42
279	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	42
278	High-temperature oxidation of thick Cr coating prepared by arc deposition for accident tolerant fuel claddings. <i>Journal of Nuclear Materials</i> , 2019 , 519, 145-156	3.3	40
277	Analysis of the evaporation and re-condensation processes induced by pulsed beam treatments. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1172-1182	4.9	40
276	Quasicrystals in the Ti ₂ ZrNi alloy system. <i>Journal of Non-Crystalline Solids</i> , 2004 , 334-335, 223-227	3.9	40
275	Hume-Rothery Phases with Constant e/a Value and their Related Electronic Properties in Al-Cu-Fe(-Cr) Quasicrystalline Systems. <i>Materials Science Forum</i> , 1994 , 150-151, 403-416	0.4	40
274	Ti Alloys with Low Young's Moduli Interpreted by Cluster-Plus-Glass-Atom Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1872-1879	2.3	39
273	24 electron cluster formulas as the molecular units of ideal metallic glasses. <i>Philosophical Magazine</i> , 2014 , 94, 2520-2540	1.6	38
272	Cluster formulae for alloy phases. <i>Philosophical Magazine Letters</i> , 2010 , 90, 683-688	1	37
271	Cluster-based composition rule for stable ternary quasicrystals in Al-(Cu, Pd, Ni)-TM systems. <i>Philosophical Magazine</i> , 2006 , 86, 263-274	1.6	36
270	Vacuum brazing of TiAl alloy to 40Cr steel with Ti ₆₀ Ni ₂₂ Cu ₁₀ Zr ₈ alloy foil as filler metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 252-258	5.3	34
269	Al-Cu approximants in the alloy. <i>European Physical Journal B</i> , 1998 , 6, 25-32	1.2	34
268	Effects of Nb and Zr on structural stabilities of Ti-Mo-Sn-based alloys with low modulus. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 1-7	5.3	33
267	Ultrafast atomic layer-by-layer oxygen vacancy-exchange diffusion in double-perovskite LnBaCo ₂ O _{5.5} + δ thin films. <i>Scientific Reports</i> , 2014 , 4, 4726	4.9	33
266	Fundamentals and applications of material modification by intense pulsed beams. <i>Surface and Coatings Technology</i> , 2007 , 201, 8588-8595	4.4	32
265	Microstructures and phase formations in the surface layer of an AISI D2 steel treated with pulsed electron beam. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 707-709	5.7	32

264	Cluster-plus-glue-atom model and universal composition formulas [cluster](glue atom) _x for BCC solid solution alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 652, 63-69	5.7	31
263	First-principle study of the structural, electronic, and magnetic properties of amorphous FeB alloys. <i>Physica B: Condensed Matter</i> , 2012 , 407, 250-257	2.8	31
262	Surface microstructure and mechanical property of WC-6% Co hard alloy irradiated by high current pulsed electron beam. <i>Applied Surface Science</i> , 2013 , 279, 137-141	6.7	31
261	Revelation of solid solubility limit Fe/Ni = 1/12 in corrosion resistant Cu-Ni alloys and relevant cluster model. <i>Journal of Materials Research</i> , 2010 , 25, 328-336	2.5	31
260	Optimum ZrAlCo bulk metallic glass composition Zr ₅₃ Al _{23.5} Co _{23.5} . <i>Intermetallics</i> , 2004 , 12, 1275-1278	3.5	31
259	The e/a Criterion for the Largest Glass-forming Abilities of the Zr-Al-Ni(Co) Alloys. <i>Materials Transactions</i> , 2004 , 45, 1180-1183	1.3	31
258	The e/a-constant HumeRothery phases in an As-cast Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 291, 78-85	5.3	31
257	Microstructures and mechanical properties of body-centered-cubic (Al,Ti) _{0.7} (Ni,Co,Fe,Cr) ₅ high entropy alloys with coherent B2/L21 nanoprecipitation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 286-296	5.3	30
256	CuZrAl (Ti) bulk metallic glasses: Cluster selection rules and glass formation. <i>Intermetallics</i> , 2007 , 15, 711-715	3.5	29
255	Oxidation protection of AISI H13 steel by high current pulsed electron beam treatment. <i>Surface and Coatings Technology</i> , 2004 , 183, 261-267	4.4	29
254	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
253	ZrNbTiMoSn alloys with low Young's modulus and low magnetic susceptibility optimized via a cluster-plus-glue-atom model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 369-374	5.3	28
252	The microstructure analysis of AlCuCr phases in Al ₆₅ Cu ₂₀ Cr ₁₅ quasicrystalline particles/Al base composites. <i>Journal of Alloys and Compounds</i> , 1999 , 285, 221-228	5.7	27
251	Formation and structure-property correlation of new bulk FeBSiBf metallic glasses. <i>Materials and Design</i> , 2016 , 106, 69-73	8.1	27
250	Ti surface alloying of an AISI 316L stainless steel by low energy high current pulsed electron beam treatment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 1407-1414	2.9	26
249	Composition formulas of binary eutectics. <i>Scientific Reports</i> , 2015 , 5, 17880	4.9	25
248	Formation rule for Al-based ternary quasi-crystals: Example of AlNiBe decagonal phase. <i>Journal of Materials Research</i> , 2001 , 16, 2653-2660	2.5	25
247	Surface modification of Ni (50.6at.%) Ti by high current pulsed electron beam treatment. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 682-685	5.7	24

246	Cu ₃ Ni ₃ Sn ₃ Si alloys designed by cluster-plus-glue-atom model. <i>Materials and Design</i> , 2019 , 167, 107641	8.1	23
245	Effect of corrosion attack on the fatigue behavior of an as-cast Mg ₇ %Gd ₅ %Y ₁ %Nd _{0.5} %Zr alloy. <i>Materials and Design</i> , 2015 , 84, 185-193	8.1	22
244	WC/Co composite surface structure and nano graphite precipitate induced by high current pulsed electron beam irradiation. <i>Applied Surface Science</i> , 2013 , 285, 552-556	6.7	22
243	Vacuum Brazing TC4 Titanium Alloy to 304 Stainless Steel with Cu-Ti-Ni-Zr-V Amorphous Alloy Foil. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 3770-3777	1.6	22
242	Preparation of TiN films by arc ion plating using dc and pulsed biases. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 250-254	2.9	22
241	Composition interpretation of binary bulk metallic glasses via principal cluster definition. <i>Materials and Design</i> , 2016 , 96, 115-121	8.1	21
240	Influence of phase dissolution and hydrogen absorption on the stress corrosion cracking behavior of Mg-7%Gd-5%Y-1%Nd-0.5%Zr alloy in 3.5 wt.% NaCl solution. <i>Corrosion Science</i> , 2018 , 142, 185-200	6.8	21
239	Structure and tribological property of B2-based approximants. <i>Bulletin of Materials Science</i> , 1999 , 22, 465-472	1.7	21
238	Influences of Mo/Zr minor-alloying on the phase precipitation behavior in modified 310S austenitic stainless steels at high temperatures. <i>Materials and Design</i> , 2017 , 128, 34-46	8.1	21
237	Phase-field simulation of coherent BCC/B2 microstructures in high entropy alloys. <i>Acta Materialia</i> , 2020 , 197, 10-19	8.4	21
236	Composition formulas of Fe ₂ B binary amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 453-458	8.5	20
235	Mechanism of surface modifications on a NiTi alloy treated with low energy high current pulsed electron beam. <i>EPJ Applied Physics</i> , 2008 , 43, 327-331	1.1	20
234	Sm-based Sm-Al-Ni ternary bulk metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 573-577	2.5	20
233	High-temperature oxidation resistant (Cr, Al)N films synthesized using pulsed bias arc ion plating. <i>Applied Surface Science</i> , 2008 , 254, 7149-7154	6.7	20
232	Bulk metallic glass formation in Cu ₂ Zr ₃ Ti ternary system. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3425-3428	3.9	20
231	Effect of solution treatment on stress corrosion cracking behavior of an as-forged Mg-Zn-Y-Zr alloy. <i>Scientific Reports</i> , 2016 , 6, 29471	4.9	19
230	Minor-alloyed Cu-Ni-Si alloys with high hardness and electric conductivity designed by a cluster formula approach. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 467-473	3.6	19
229	Effects of Sb Content on Solidification Pathways and Grain Size of AZ91 Magnesium Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 115-121	2.5	19

228	Understanding the Ni ₁₀ Zr BMG composition from a binary eutectic Ni ₁₀ icosahedral cluster. <i>Intermetallics</i> , 2010 , 18, 1800-1802	3.5	19
227	Interfacial microstructure and shear strength of Ti6Al4V alloy/316L stainless steel joint brazed with Ti33.3Zr16.7Cu50NiX amorphous filler metals. <i>Materials and Design</i> , 2020 , 187, 108380	8.1	19
226	Nearest-neighbor coordination polyhedral clusters in metallic phases defined using Friedel oscillation and atomic dense packing. <i>Journal of Applied Crystallography</i> , 2015 , 48, 2002-2005	3.8	18
225	Stress corrosion cracking susceptibility of a high strength Mg-7%Gd-5%Y-1%Nd-0.5%Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 335-341	8.8	18
224	Electron microscopy study of scratch-induced surface microstructures in an Al-Cu-Fe icosahedral quasicrystal. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1645-1655		18
223	Crater-formation-induced metastable structure in an AISI D2 steel treated with a pulsed electron beam. <i>Vacuum</i> , 2012 , 86, 1273-1277	3.7	17
222	Composition formulas of Fe-based transition metals-metalloid bulk metallic glasses derived from dual-cluster model of binary eutectics. <i>Scientific Reports</i> , 2017 , 7, 9150	4.9	17
221	Barrierless Cu-Ni-Mo Interconnect Films with High Thermal Stability Against Silicide Formation. <i>Journal of Electronic Materials</i> , 2012 , 41, 3447-3452	1.9	17
220	Cu ₇ Zr ₃ Ag bulk metallic glasses based on Cu ₈ Zr ₅ icosahedron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 281-284	5.3	17
219	Ti-Zr-Ni bulk quasicrystals prepared by casting. <i>Philosophical Magazine Letters</i> , 2003 , 83, 467-472	1	17
218	Al-Cu approximants and associated B2 chemical-twinning modes. <i>Micron</i> , 2000 , 31, 507-14	2.3	17
217	The Al ₃ Ni ₂ Structure as Approximant of Quasicrystals. <i>Journal De Physique, I</i> , 1995 , 5, 1625-1634		17
216	Ni-based BBeNiSiTi bulk metallic glasses designed using cluster line, minor alloying, and element substitutions. <i>Intermetallics</i> , 2010 , 18, 791-795	3.5	16
215	Hexahedral nanocementites catalyzing the growth of carbon nanohelices. <i>Applied Physics Letters</i> , 2008 , 92, 063121	3.4	16
214	Direct Friction Welding of TiAl Alloy to 42CrMo Steel Rods. <i>Materials and Manufacturing Processes</i> , 2015 , 30, 1104-1108	4.1	15
213	Controlled Preparation of MgAl-Layered Double Hydroxide/Graphene Hybrids and Their Applications for Metal Protection. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16516-16525	3.9	15
212	Packing efficiency of coordination polyhedra. <i>Philosophical Magazine</i> , 2010 , 90, 3961-3973	1.6	15
211	Composition formulae of ideal metallic glasses and their relevant eutectics established by a cluster-resonance model. <i>Philosophical Magazine</i> , 2011 , 91, 2404-2418	1.6	15

210	High thermal stability and low electrical resistivity carbon-containing Cu film on barrierless Si. <i>Applied Physics Letters</i> , 2010 , 96, 182105	3.4	15
209	Formation and soft magnetic properties of Co (-Fe)-Si-B-Nb bulk metallic glasses in relation to clusters. <i>Journal of Physics: Conference Series</i> , 2008 , 98, 012017	0.3	15
208	Review of structural models for the compositional interpretation of metallic glasses. <i>International Materials Reviews</i> , 2020 , 65, 286-296	16.1	15
207	Microstructures and Stability Origins of $\text{[(Ti,Zr)-(Mo,Sn)-Nb}$ Alloys with Low Young's Modulus. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3924-3933	1.3	14
206	Co-B-Si-Ta bulk metallic glasses designed using cluster line and alloying. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S34-S37	5.7	14
205	A comparative study on microstructures of [FeSi_2 and carbon-doped [Fe(Si,C)_2 films by transmission electron microscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 194, 47-53	1.2	14
204	Formation and Optimization of Cu-Based Cu-Zr-Al Bulk Metallic Glasses. <i>Materials Science Forum</i> , 2005 , 475-479, 3381-3384	0.4	14
203	Effect of solution treatment on the fatigue behavior of an as-forged Mg-Zn-Y-Zr alloy. <i>Scientific Reports</i> , 2016 , 6, 23955	4.9	14
202	Composition formulas of Cu-Ni industrial alloy specifications. <i>Science China Materials</i> , 2015 , 58, 355-362	7.1	13
201	Fe-B-Si-Zr soft magnetic bulk glassy alloys. <i>Intermetallics</i> , 2015 , 67, 138-144	3.5	13
200	Effects of Cu, Fe and Co addition on the glass-forming ability and mechanical properties of Zr-Al-Ni bulk metallic glasses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 2367-2371	3.6	13
199	Surface Modification of Light Alloys by Low-Energy High-Current Pulsed Electron Beam. <i>Journal of Metallurgy</i> , 2012 , 2012, 1-10	0	13
198	Enhancement of glass-forming ability and corrosion resistance of Zr-based Zr-Ni-Al bulk metallic glasses with minor addition of Nb. <i>Journal of Applied Physics</i> , 2011 , 110, 023513	2.5	13
197	Microstructure and property modifications of an AISI H13 (4Cr5MoSiV) steel induced by pulsed electron beam treatment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010 , 28, 1349-1355	2.9	13
196	Highly corrosion-resistant $\text{Cu}_{70}(\text{Ni,Fe,Mn,Cr})_{30}$ cupronickel designed using a cluster model for stable solid solutions. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 179-182	5.7	13
195	SURFACE MODIFICATION OF METALLIC MATERIALS BY HIGH CURRENT PULSED ELECTRON BEAM. <i>International Journal of Modern Physics B</i> , 2009 , 23, 1713-1718	1.1	13
194	Rapid surface alloying by Ti of AISI 316L stainless steel using. Low energy high current pulsed electron beam. <i>EPJ Applied Physics</i> , 2008 , 43, 343-347	1.1	13
193	Formation of quasicrystals and metallic glasses in relation to icosahedral clusters. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3405-3411	3.9	13

192	Geometric structure of Bergman clusters related to bulk amorphous alloys and quasicrystals. <i>Philosophical Magazine</i> , 2004 , 84, 825-834	1.6	13
191	Cluster-formula-embedded machine learning for design of multicomponent Ti alloys with low Young's modulus. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
190	High-Temperature Structural Stabilities of Ni-Based Single-Crystal Superalloys NiCoCrMoWAlTiTa with Varying Co Contents. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 127-133	2.5	13
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