Walter Jos Botta

List of Publications by Year in Descending Order

295 papers	5,238 citations	34 h-index	52 g-index
305 ext. papers	6,034 ext. citations	4.1 avg, IF	5.76 L-index

#	Paper	IF	Citations
295	A wear-resistant Al85Cu6Fe3Cr6 spray-formed quasicrystalline composite. *Materialia*, **2022**, 101367	3.2	0
294	Hydrogen absorption/desorption reactions of the (TiVNb)85Cr15 multicomponent alloy. *Journal of Alloys and Compounds*, **2022**, 901, 163620	5.7	1
293	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. *Materials Research Letters*, **2022**, 10, 163-256	7.4	26
292	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. *Journal of Materials Research*, **2021**, 36, 1-17	2.5	0
291	Room temperature conversion of Mg to MgH2 assisted by low fractions of additives. *International Journal of Hydrogen Energy*, **2021**,	6.7	2
290	Metallurgical processing of Mg alloys and MgH2 for hydrogen storage. *Journal of Alloys and Compounds*, **2021**, 162798	5.7	2
289	Structural transformations of a gas-atomized Al62.5Cu25Fe12.5 alloy during detonation spraying, spark plasma sintering and hot pressing. *Science of Sintering*, **2021**, 53, 379-386	0.7	0
288	Corrosion Resistant Boron-Modified Ferritic and Austenitic Stainless Steels Designed by CALPHAD. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 2708-2719	2.3	0
287	Effects of the Chromium Content in (TiVNb)100−xCrx Body-Centered Cubic High Entropy Alloys Designed for Hydrogen Storage Applications. *Energies*, **2021**, 14, 3068	3.1	3
286	Design of TiVNb-(Cr, Ni or Co) multicomponent alloys with the same valence electron concentration for hydrogen storage. *Journal of Alloys and Compounds*, **2021**, 865, 158767	5.7	13
285	An approach to design single BCC Mg-containing high entropy alloys for hydrogen storage applications. *International Journal of Hydrogen Energy*, **2021**, 46, 25555-25561	6.7	6
284	Synthesis and hydrogen storage behavior of MgV2.4Ti1.6CrNi high entropy alloys. *International Journal of Hydrogen Energy*, **2021**, 46, 2351-2361	6.7	27
283	Interaction between Fe66Cr10Nb5B19 metallic glass and aluminum during spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2021**, 799, 140165	5.3	6
282	Challenges in optimizing the resistance to corrosion and wear of amorphous Fe-Cr-Nb-B alloy containing crystalline phases. *Journal of Non-Crystalline Solids*, **2021**, 555, 120537	3.9	11
281	Recent developments on fabrication of Al-matrix composites reinforced with quasicrystals: From metastable to conventional processing. *Journal of Materials Research*, **2021**, 36, 281-297	2.5	10
280	Thermodynamic modelling of hydrogen-multicomponent alloy systems: Calculating pressure-composition-temperature diagrams. *Acta Materialia*, **2021**, 215, 117070	8.4	6
279	Compositional influence on heating-induced clustered glass formation for multicomponent Zr55-60Al10(Co,Ni,Cu,Ag)30-35 alloys. *Intermetallics*, **2021**, 135, 107233	3.5	0

278	Influence of chromium concentration and partial crystallization on the corrosion resistance of FeCrNiB amorphous alloys. *Materials Characterization*, **2021**, 179, 111369	3.9	4
277	Corrosion resistance of WE43 Mg alloy in sodium chloride solution. *Materials Chemistry and Physics*, **2021**, 272, 124930	4.4	8
276	Strong and ductile recycled Al-7Si-3Cu-1Fe alloy: Controlling the morphology of quasicrystal approximant □phase by Mn and V addition. *Journal of Alloys and Compounds*, **2021**, 888, 161508	5.7	2
275	Corrosion resistant and tough multi-principal element Cr-Co-Ni alloys. *Journal of Alloys and Compounds*, **2021**, 884, 161107	5.7	4
274	Micro-structural characterization of supermartensitic stainless steel coating modified with boro processed by HVOF. *Microscopy and Microanalysis*, **2020**, 26, 97-98	0.5	
273	Mg-containing multi-principal element alloys for hydrogen storage: A study of the MgTiNbCr0.5Mn0.5Ni0.5 and Mg0.68TiNbNi0.55 compositions. *International Journal of Hydrogen Energy*, **2020**, 45, 19539-19552	6.7	16
272	Synthesis of Nanostructured TiFe Hydrogen Storage Material by Mechanical Alloying via High-Pressure Torsion. *Advanced Engineering Materials*, **2020**, 22, 2000011	3.5	6
271	Single step fabrication by spray forming of large volume Al-based composites reinforced with quasicrystals. *Scripta Materialia*, **2020**, 181, 86-91	5.6	15
270	Influence of Al Additions on the Microstructure and Mechanical Properties of a C and Si-Free High-Mn Steel. *Metals*, **2020**, 10, 352	2.3	1
269	Phase decomposition and mechanical properties of pseudo-high entropy Zr65(Al,Fe,Co,Ni,M)35 (M=Cu, Ag or Pd) glassy alloys. *Journal of Alloys and Compounds*, **2020**, 829, 154513	5.7	3
268	The influence of the O2/C2H2 ratio on the structure and properties of Fe66Cr10Nb5B19 detonation coatings. *Materials Today: Proceedings*, **2020**, 25, 384-386	1.4	5
267	FCC phase formation in immiscible Mg□Hf (magnesium□afnium) system by high-pressure torsion. *AIP Advances*, **2020**, 10, 055222	1.5	7
266	Wear-resistant boride reinforced steel coatings produced by non-vacuum electron beam cladding. *Surface and Coatings Technology*, **2020**, 386, 125466	4.4	15
265	Corrosion properties of amorphous, partially, and fully crystallized Fe68Cr8Mo4Nb4B16 alloy. *Journal of Alloys and Compounds*, **2020**, 826, 154123	5.7	17
264	Designing new quasicrystalline compositions in Al-based alloys. *Journal of Alloys and Compounds*, **2020**, 823, 153765	5.7	11
263	Formation, thermal stability and mechanical properties of high-entropy (Fe0.25Co0.25Ni0.25Cr0.125Mo0.0625Nb0.0625)100-xBx (x = 7□14) amorphous alloys. *Journal of Alloys and Compounds*, **2020**, 825, 153858	5.7	7
262	Fast hydrogen absorption/desorption kinetics in reactive milled Mg-8 mol% Fe nanocomposites. *International Journal of Hydrogen Energy*, **2020**, 45, 12408-12418	6.7	16
261	Outstanding Tensile Ductility in High Iron-Containing Al-Si-Cu Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 2703-2710	2.3	5

260	Wear and Corrosion Performance of Al-Cu-Fe-(Cr) Quasicrystalline Coatings Produced by HVOF. *Journal of Thermal Spray Technology*, **2020**, 29, 1195-1207	2.5	14
259	Improved ball milling method for the synthesis of nanocrystalline TiFe compound ready to absorb hydrogen. *International Journal of Hydrogen Energy*, **2020**, 45, 2084-2093	6.7	9
258	Formation, structure and properties of pseudo-high entropy clustered bulk metallic glasses. *Journal of Alloys and Compounds*, **2020**, 820, 153164	5.7	4
257	Functionally graded aluminum reinforced with quasicrystal approximant phases Improving the wear resistance at high temperatures. *Wear*, **2020**, 462-463, 203507	3.5	2
256	Severe plastic deformation and different surface treatments on the biocompatible Ti13Nb13Zr and Ti35Nb7Zr5Ta alloys: Microstructural and phase evolutions, mechanical properties, and bioactivity analysis. *Journal of Alloys and Compounds*, **2020**, 812, 152116	5.7	11
255	Hydrogen storage properties of filings of the ZK60 alloy modified with 2.5 wt% mischmetal. *International Journal of Hydrogen Energy*, **2020**, 45, 5375-5383	6.7	3
254	Effects of graphite addition and air exposure on ball-milled MgAl alloys for hydrogen storage. *International Journal of Hydrogen Energy*, **2019**, 44, 23257-23266	6.7	6
253	Hydrogen desorption/absorption properties of the extensively cold rolled Ti40Nb alloy. *International Journal of Hydrogen Energy*, **2019**, 44, 20133-20144	6.7	5
252	Surface anodization of the biphasic Ti13Nb13Zr biocompatible alloy: Influence of phases on the formation of TiO2 nanostructures. *Journal of Alloys and Compounds*, **2019**, 796, 93-102	5.7	23
251	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. *Scientific Reports*, **2019**, 9, 7136	4.9	14
250	Formation, stability and ultrahigh strength of novel nanostructured alloys by partial crystallization of high-entropy (Fe0.25Co0.25Ni0.25Cr0.125Mo0.125)86-89B11-14 amorphous phase. *Acta Materialia*, **2019**, 170, 50-61	8.4	25
249	Effect of iron on the microstructure and mechanical properties of the spray-formed and rotary-swaged 319 aluminum alloy. *International Journal of Advanced Manufacturing Technology*, **2019**, 102, 3879-3894	3.2	11
248	Microstructure and mechanical behavior of Al92Fe3Cr2X3 (X = Ce, Mn, Ti, and V) alloys processed by centrifugal force casting. *Journal of Materials Research and Technology*, **2019**, 8, 2092-2097	5.5	9
247	Fabrication of Al-matrix composite reinforced with quasicrystals using conventional metallurgical fabrication methods. *Scripta Materialia*, **2019**, 173, 21-25	5.6	20
246	Hydrogen Storage in Mg and Mg-Based Alloys and Composites Processed by Severe Plastic Deformation. *Materials Transactions*, **2019**, 60, 1561-1570	1.3	15
245	Tailoring the microstructure of recycled 319 aluminum alloy aiming at high ductility. *Journal of Materials Research and Technology*, **2019**, 8, 3539-3549	5.5	5
244	Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. *Metals* , **2019**, 9, 846	2.3	11
243	Hydrogen storage properties of 2 MgFe mixtures processed by hot extrusion: Effect of ram speeds. *International Journal of Hydrogen Energy*, **2019**, 44, 20203-20212	6.7	2

242	Wear Resistance of Boron-Modified Supermartensitic Stainless Steel Coatings Produced by High-Velocity Oxygen Fuel Process. *Journal of Thermal Spray Technology*, **2019**, 28, 2003-2014	2.5	9
241	Corrosion and wear properties of FeCrMnCoSi HVOF coatings. *Surface and Coatings Technology*, **2019**, 357, 993-1003	4.4	31
240	Wear Resistant Duplex Stainless Steels Produced by Spray Forming. *Metals and Materials International*, **2019**, 25, 456-464	2.4	11
239	Effect of boron addition on the solidification sequence and microstructure of AlCoCrFeNi alloys. *Journal of Alloys and Compounds*, **2019**, 775, 1235-1243	5.7	20
238	Degradation of biodegradable implants: The influence of microstructure and composition of Mg-Zn-Ca alloys. *Journal of Alloys and Compounds*, **2019**, 774, 168-181	5.7	27
237	Mechanical activation of TiFe for hydrogen storage by cold rolling under inert atmosphere. *International Journal of Hydrogen Energy*, **2018**, 43, 2913-2918	6.7	39
236	The formation of quasicrystals in Al-Cu-Fe-(M=Cr,Ni) melt-spun ribbons. *Journal of Alloys and Compounds*, **2018**, 731, 1288-1294	5.7	18
235	An alternative route to produce easily activated nanocrystalline TiFe powder. *International Journal of Hydrogen Energy*, **2018**, 43, 16107-16116	6.7	17
234	Study of Glass Forming on Cu60.0Zr32.5Ti7.5 Alloy by Molecular Dynamics Simulation. *Materials Research*, **2018**, 21,	1.5	1
233	Hydrogen-induced phase transition of MgZrTiFe0.5Co0.5Ni0.5 high entropy alloy. *International Journal of Hydrogen Energy*, **2018**, 43, 1702-1708	6.7	60
232	Characterization and Corrosion Resistance of Boron-Containing-Austenitic Stainless Steels Produced by Rapid Solidification Techniques. *Materials*, **2018**, 11,	3.5	11
231	Changing the solidification sequence and the morphology of iron-containing intermetallic phases in AA6061 aluminum alloy processed by spray forming. *Materials Characterization*, **2018**, 145, 507-515	3.9	10
230	Synthesis of Ti-Nb alloys from elemental powders by high-energy ball milling and their hydrogenation features. *International Journal of Hydrogen Energy*, **2018**, 43, 18382-18391	6.7	7
229	Effects of friction stir processing on hydrogen storage of ZK60 alloy. *International Journal of Hydrogen Energy*, **2018**, 43, 11085-11091	6.7	12
228	Room temperature hydrogen absorption by Mg and Mg TiFe nanocomposites processed by high-energy ball milling. *International Journal of Hydrogen Energy*, **2018**, 43, 12251-12259	6.7	16
227	Production and Corrosion Resistance of Thermally Sprayed Fe-Based Amorphous Coatings from Mechanically Milled Feedstock Powders. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 4860-4870	2.3	23
226	Hydrogen storage in MgH2LaNi5 composites prepared by cold rolling under inert atmosphere. *International Journal of Hydrogen Energy*, **2018**, 43, 13348-13355	6.7	16
225	Effect of Cr addition on the formation of the decagonal quasicrystalline phase of a rapidly solidified Al-Ni-Co alloy. *Journal of Alloys and Compounds*, **2017**, 707, 41-45	5.7	16

224	On the ternary eutectic reaction in the Fe60Cr8Nb8B24 quaternary alloy. *Journal of Alloys and Compounds*, **2017**, 707, 281-286	5.7	2
223	Electrochemical Corrosion Behavior of Spray-Formed Boron-Modified Supermartensitic Stainless Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 2077-2089	2.3	7
222	Hydrogen storage properties of 2Mg-Fe mixtures processed by hot extrusion at different temperatures. *International Journal of Hydrogen Energy*, **2017**, 42, 11493-11500	6.7	6
221	Experimental and thermodynamic investigation of the microstructural evolution of a boron-rich Fe-Cr-Nb-B alloy. *Journal of Alloys and Compounds*, **2017**, 713, 119-124	5.7	2
220	Structural, mechanical and thermal characterization of an Al-Co-Fe-Cr alloy for wear and thermal barrier coating applications. *Surface and Coatings Technology*, **2017**, 319, 241-248	4.4	21
219	Thermodynamic Calculations for the Investigation of Phase Formation in Boron-Modified Ferritic Stainless Steel. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 343-349	1	6
218	Assessing technological developments in amorphous/glassy metallic alloys using patent indicators. *Journal of Alloys and Compounds*, **2017**, 716, 330-335	5.7	8
217	Structural characterization and hydrogen storage properties of MgH2/Mg2CoH5 nanocomposites. *International Journal of Hydrogen Energy*, **2017**, 42, 14593-14601	6.7	14
216	Investigation by mechanical spectroscopy at different frequencies of the nucleation processes in amorphous Cu-Zr-Al alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 694, 66-71	5.3	4
215	Microstructure and wear behavior of Fe-based amorphous HVOF coatings produced from commercial precursors. *Surface and Coatings Technology*, **2017**, 309, 938-944	4.4	64
214	Iron and niobium based additives in magnesium hydride: Microstructure and hydrogen storage properties. *International Journal of Hydrogen Energy*, **2017**, 42, 6810-6819	6.7	46
213	Processing of MgH2 by extensive cold rolling under protective atmosphere. *International Journal of Hydrogen Energy*, **2017**, 42, 2201-2208	6.7	11
212	Ultrafine-Grained Ti-13Nb-13Zr Alloy Produced by Severe Plastic Deformation. *Materials Research*, **2017**, 20, 404-410	1.5	6
211	Characterization of Atomized Powders and Extruded Samples of an Al-Si-Cu Alloy. *Materials Science Forum*, **2017**, 899, 442-447	0.4	
210	Thermal Spraying Processes and Amorphous Alloys: Macro-Indicators of Patent Activity. *Materials Research*, **2017**, 20, 89-95	1.5	1
209	Effect of cold rolling on the structure and hydrogen properties of AZ91 and AM60D magnesium alloys processed by ECAP. *International Journal of Hydrogen Energy*, **2017**, 42, 21822-21831	6.7	13
208	Insight into the complex ternary phase behavior in Al-Mn-Ce alloys. *Journal of Alloys and Compounds*, **2017**, 727, 460-468	5.7	9
207	Low temperature rolling of AZ91 alloy for hydrogen storage. *International Journal of Hydrogen Energy*, **2017**, 42, 29394-29405	6.7	11

206	Predicting the Formation of Intermetallic Phases in the Al-Si-Fe System with Mn Additions. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 298-304	1	14
205	Synthesis by High-Energy Ball Milling of MgH2-TiFe Composites for Hydrogen Storage. *Materials Science Forum*, **2017**, 899, 13-18	0.4	4
204	Effect of dislocations and residual stresses on the martensitic transformation of Cu-Al-Ni-Mn shape memory alloy powders. *Journal of Alloys and Compounds*, **2017**, 723, 841-849	5.7	8
203	Wear and corrosion properties of HVOF coatings from Superduplex alloy modified with addition of boron. *Surface and Coatings Technology*, **2017**, 309, 911-919	4.4	17
202	Assessing Collaboration and Knowledge Flow on Coatings of Metallic Glasses Obtained From Thermal Spraying Processes Using Bibliometrics and Science Mapping. *Materials Research*, **2017**, 20, 71-80	1.5	2
201	Severe Plastic Deformation and Additive Distribution in Mg-Fe to Improve Hydrogen Storage Properties. *Materials Research*, **2017**, 20, 61-70	1.5	6
200	Nanoporous titanium obtained from a spinodally decomposed Ti alloy. *Microporous and Mesoporous Materials*, **2016**, 222, 23-26	5.3	11
199	Characterization of hydrogen storage properties of Mg-Fe-CNT composites prepared by ball milling, hot-extrusion and severe plastic deformation methods. *International Journal of Hydrogen Energy*, **2016**, 41, 23092-23098	6.7	11
198	Microstructural investigation of FeCrNbB amorphous/nanocrystalline coating produced by HVOF. *Materials and Design*, **2016**, 111, 608-615	8.1	28
197	Assessment of phase constitution on the Al-rich region of rapidly solidified Al-Co-Fe-Cr alloys. *Materials Characterization*, **2016**, 122, 76-82	3.9	4
196	Wear resistant coatings of boron-modified stainless steels deposited by Plasma Transferred Arc. *Surface and Coatings Technology*, **2016**, 302, 255-264	4.4	29
195	Severely deformed ZK60 + 2.5% Mm alloy for hydrogen storage produced by two different processing routes. *International Journal of Hydrogen Energy*, **2016**, 41, 11284-11292	6.7	21
194	Hydrogen storage in heavily deformed ZK60 alloy modified with 2.5 wt.% Mm addition. *International Journal of Hydrogen Energy*, **2016**, 41, 4177-4184	6.7	16
193	Enhancement of Mechanical Properties of Aluminum and 2124 Aluminum Alloy by the Addition of Quasicrystalline Phases. *Materials Research*, **2016**, 19, 74-79	1.5	20
192	Mg-based Nanocomposites for Hydrogen Storage Containing Ti-Cr-V Alloys as Additives. *Materials Research*, **2016**, 19, 80-85	1.5	8
191	Microstructure formation and abrasive wear resistance of a boron-modified superduplex stainless steel produced by spray forming. *Journal of Materials Research*, **2016**, 31, 2987-2993	2.5	8
190	Phase transformation and shape memory effect of a Cu-Al-Ni-Mn-Nb high temperature shape memory alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 663, 64-68	5.3	24
189	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 661, 61-67	5.3	29

188	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. *Additive Manufacturing*, **2016**, 11, 23-31	6.1	61
187	Design and production of Al-Mn-Ce alloys with tailored properties. *Materials and Design*, **2016**, 110, 436-448	4.8	10
186	Mg-Zn-Ca amorphous alloys for application as temporary implant: Effect of Zn content on the mechanical and corrosion properties. *Materials and Design*, **2016**, 110, 188-195	8.1	30
185	Reassessment of the effects of Ce on quasicrystal formation and microstructural evolution in rapidly solidified Al–Mn alloys. *Acta Materialia*, **2015**, 98, 221-228	8.4	33
184	Design of wear resistant boron-modified supermartensitic stainless steel by spray forming process. *Materials and Design*, **2015**, 83, 214-223	8.1	29
183	Thermodynamic analysis of the effect of annealing on the thermal stability of a Cu–Al–Ni–Mn shape memory alloy. *Thermochimica Acta*, **2015**, 608, 1-6	2.9	25
182	Gene expression of human osteoblasts cells on chemically treated surfaces of Ti-6Al-4V-ELI. *Materials Science and Engineering C*, **2015**, 51, 248-55	8.3	26
181	Study on Cu48Zr43Al9 and Cu54Zr40Al6 Amorphous Matrix Alloys by Mechanical Spectroscopy. *Defect and Diffusion Forum*, **2015**, 365, 317-322	0.7	
180	The effect of oxygen on the microstructural evolution in crystallized Cu–Zr–Al metallic glasses. *Intermetallics*, **2015**, 65, 51-55	3.5	2
179	Controlled mechanochemical synthesis and hydrogen desorption mechanisms of nanostructured Mg2CoH5. *International Journal of Hydrogen Energy*, **2015**, 40, 1504-1515	6.7	13
178	Mechanical spectroscopy study on the Cu54Zr40Al6 amorphous matrix alloy at low temperature. *Journal of Alloys and Compounds*, **2015**, 621, 319-323	5.7	8
177	Electrochemical impedance analysis of TiO2 nanotube porous layers based on an alternative representation of impedance data. *Journal of Electroanalytical Chemistry*, **2015**, 737, 54-64	4.1	22
176	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. *Materials Research*, **2015**, 18, 35-38	1.5	27
175	Surface chemical treatment of ultrafine-grained Ti–6Al–7Nb alloy processed by severe plastic deformation. *Journal of Alloys and Compounds*, **2015**, 643, S241-S245	5.7	15
174	Effects of equal-channel angular pressing and accumulative roll-bonding on hydrogen storage properties of a commercial ZK60 magnesium alloy. *International Journal of Hydrogen Energy*, **2015**, 40, 16971-16976	6.7	32
173	Residual glass and crystalline phases in a barium disilicate glass–ceramic. *Materials Characterization*, **2015**, 110, 192-196	3.9	8
172	Hot Consolidation of Partially Amorphous Cu-Ti Based Alloy: a Comparison Between Hot Extrusion and Hot Compaction by Sintering. *Materials Research*, **2015**, 18, 448-452	1.5	2
171	Corrosion properties of Fe–Cr–Nb–B amorphous alloys and coatings. *Surface and Coatings Technology*, **2014**, 254, 238-243	4.4	42

170	The role of yttrium and oxygen on the crystallization behavior of a Cu□rA□l metallic glass. *Journal of Non-Crystalline Solids*, **2014**, 406, 79-87	3.9	11
169	Development of Ultrafine-Grained Metals by Equal-Channel Angular Pressing **2014**, 187-209		6
168	Formation of Fe-based glassy matrix composite coatings by laser processing. *Surface and Coatings Technology*, **2014**, 240, 336-343	4.4	39
167	Spray forming of Cu□1.85Al□.2Ni□Mn (wt%) shape memory alloy. *Journal of Alloys and Compounds*, **2014**, 615, S602-S606	5.7	27
166	Hydrogen storage properties of MgH2 processed by cold forging. *Journal of Alloys and Compounds*, **2014**, 615, S719-S724	5.7	16
165	Hydrogen storage properties of pure Mg after the combined processes of ECAP and cold-rolling. *Journal of Alloys and Compounds*, **2014**, 586, S405-S408	5.7	36
164	MgH2 + FeNb nanocomposites for hydrogen storage. *Materials Chemistry and Physics*, **2014**, 147, 557-562	4.4	21
163	Osteoblasts behavior on chemically treated commercially pure titanium surfaces. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1816-22	5.4	28
162	Hydrogen storage properties of 2Mg□e after the combined processes of hot extrusion and cold rolling. *Journal of Alloys and Compounds*, **2014**, 586, S409-S412	5.7	12
161	Exploring several different routes to produce Mg- based nanomaterials for Hydrogen storage. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012115	0.4	4
160	Microstructure of a recycled AA7050 alloy processed by spray forming followed by hot extrusion and rotary swaging. *Materialwissenschaft Und Werkstofftechnik*, **2014**, 45, 568-573	0.9	6
159	Atomization and Selective Laser Melting of a Cu-Al-Ni-Mn Shape Memory Alloy. *Materials Science Forum*, **2014**, 802, 343-348	0.4	25
158	Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling. *International Journal of Hydrogen Energy*, **2014**, 39, 3810-3821	6.7	49
157	Processing and characterization of amorphous magnesium based alloy for application in biomedical implants. *Journal of Materials Research and Technology*, **2014**, 3, 203-209	5.5	21
156	MgH2-based nanocomposites prepared by short-time high energy ball milling followed by□cold rolling: A new processing route. *International Journal of Hydrogen Energy*, **2014**, 39, 4404-4413	6.7	21
155	Cold rolling under inert atmosphere: A powerful tool for Mg activation. *International Journal of Hydrogen Energy*, **2014**, 39, 4959-4965	6.7	26
154	Corrosion resistance of Fe-based amorphous alloys. *Journal of Alloys and Compounds*, **2014**, 586, S105-S110	5.5	65
153	Microstructure Characterization and Kinetics of Crystallization Behavior of Tubular Spray Formed Fe43.2Co28.8B19.2Si4.8Nb4 Bulk Metallic Glass*. *HTM - Journal of Heat Treatment and Materials*, **2014**, 69, 312-321	0.7	1

152	Microstructure evolution and mechanical properties of Al□nMgCu alloy reprocessed by spray-forming and heat treated at peak aged condition. *Journal of Alloys and Compounds*, **2013**, 579, 169-173	5.7	56
151	An investigation of hydrogen storage in a magnesium-based alloy processed by equal-channel angular pressing. *International Journal of Hydrogen Energy*, **2013**, 38, 8306-8312	6.7	81
150	Comparative study between two die cast methods for processing Cu□rAl bulk metallic glasses. *Journal of Materials Research and Technology*, **2013**, 2, 125-129	5.5	6
149	Cold rolling of MgH2 powders containing different additives. *International Journal of Hydrogen Energy*, **2013**, 38, 16193-16198	6.7	31
148	Microstructure study of Al 7050 alloy reprocessed by spray forming and hot-extrusion and aged at 121□C. *Intermetallics*, **2013**, 43, 182-187	3.5	22
147	Nanoquasicrystalline Al□eCrNb alloys produced by powder metallurgy. *Journal of Alloys and Compounds*, **2013**, 577, 650-657	5.7	20
146	H-sorption properties and structural evolution of Mg processed by severe plastic deformation. *Journal of Alloys and Compounds*, **2013**, 580, S187-S191	5.7	19
145	Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass with Ni60Nb37B3 composition. *Journal of Materials Research*, **2013**, 28, 2740-2746	2.5	7
144	Nanostructured MgH2 obtained by cold rolling combined with short-time high-energy ball milling. *Materials Research*, **2013**, 16, 158-163	1.5	11
143	Formation reaction of Mg2FeH6: effect of hydrogen absorption/desorption kinetics. *Materials Research*, **2013**, 16, 1373-1378	1.5	8
142	Corrosion resistance and glass forming ability of Fe47Co7Cr15M9Si5B15Y2 (M=Mo, Nb) amorphous alloys. *Materials Research*, **2013**, 16, 1294-1298	1.5	4
141	Microstructure and wear resistance of spray-formed supermartensitic stainless steel. *Materials Research*, **2013**, 16, 642-646	1.5	14
140	Mechanochemistry and H-sorption properties of Mg2FeH6-based nanocomposites. *International Journal of Materials Research*, **2012**, 103, 1147-1154	0.5	11
139	Formation and microstructure of Ni62-xNb38Tix (x = 3, 6, 10 at.%) bulk metallic glasses. *International Journal of Materials Research*, **2012**, 103, 1096-1101	0.5	5
138	Reactive Milling of Magnesium under Hydrogen Using Transition Metals and their Fluorides as Additives. *Solid State Phenomena*, **2012**, 194, 232-236	0.4	6
137	Synthesis and hydrogen sorption properties of Mg2FeH6□MgH2 nanocomposite prepared by reactive milling. *Journal of Alloys and Compounds*, **2012**, 536, S250-S254	5.7	22
136	A synchrotron X-ray diffraction study of hydrogen storage and enhanced sorption kinetics in a mini-tank of Mg with crystalline and amorphous catalytic particle additions. *Journal of Alloys and Compounds*, **2012**, 540, 57-61	5.7	6
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