M J Tan

List of Publications by Citations

256 papers	8,059 citations	50 h-index	82 g-index
267 ext. papers	9,754 ext. citations	4.4 avg, IF	6.86 L-index

#	Paper	IF	Citations
256	Dynamic continuous recrystallization characteristics in two stage deformation of Mg□Al□Zn alloy sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 339, 124-132	5.3	342
255	3D printing trends in building and construction industry: a review. *Virtual and Physical Prototyping*, **2017**, 12, 261-276	10.1	318
254	Nanomechanics of single and multiwalled carbon nanotubes. *Physical Review B*, **2004**, 69,	3.3	276
253	Anisotropic mechanical performance of 3D printed fiber reinforced sustainable construction material. *Materials Letters*, **2017**, 209, 146-149	3.3	266
252	Fresh and hardened properties of 3D printable cementitious materials for building and construction. *Archives of Civil and Mechanical Engineering*, **2018**, 18, 311-319	3.4	239
251	Additive manufacturing of geopolymer for sustainable built environment. *Journal of Cleaner Production*, **2017**, 167, 281-288	10.3	205
250	Measurement of tensile bond strength of 3D printed geopolymer mortar. *Measurement: Journal of the International Measurement Confederation*, **2018**, 113, 108-116	4.6	203
249	Experimental study on mix proportion and fresh properties of fly ash based geopolymer for 3D concrete printing. *Ceramics International*, **2018**, 44, 10258-10265	5.1	197
248	Mechanical design and optimization of capacitive micromachined switch. *Sensors and Actuators A: Physical*, **2001**, 93, 273-285	3.9	172
247	Investigation of the rheology and strength of geopolymer mixtures for extrusion-based 3D printing. *Cement and Concrete Composites*, **2018**, 94, 307-314	8.6	153
246	Powder metal matrix composites: selection and processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1998**, 244, 80-85	5.3	148
245	Improving the 3D printability of high volume fly ash mixtures via the use of nano attapulgite clay. *Composites Part B: Engineering*, **2019**, 165, 75-83	10	145
244	Spark plasma sintered multi-wall carbon nanotube reinforced aluminum matrix composites. *Materials & Design*, **2010**, 31, S96-S100		135
243	A review of 3D concrete printing systems and materials properties: current status and future research prospects. *Rapid Prototyping Journal*, **2018**, 24, 784-798	3.8	132
242	Free vibration and buckling analyses of shear-deformable plates based on FSDT meshfree method. *Journal of Sound and Vibration*, **2004**, 276, 997-1017	3.9	123
241	Mixing of carbon nanotubes (CNTs) and aluminum powder for powder metallurgy use. *Powder Technology*, **2011**, 208, 42-48	5.2	122
240	Mechanical properties and deformation behaviour of early age concrete in the context of digital construction. *Composites Part B: Engineering*, **2019**, 165, 563-571	10	120

239	Design 3D printing cementitious materials via Fuller Thompson theory and Marson-Percy model. *Construction and Building Materials*, **2018**, 163, 600-610	6.7	112
238	Printability region for 3D concrete printing using slump and slump flow test. *Composites Part B: Engineering*, **2019**, 174, 106968	10	105
237	Thermal stability of single and multi-walled carbon nanotubes. *Physical Review B*, **2005**, 71,	3.3	105
236	The global rise of 3D printing during the COVID-19 pandemic.. *Nature Reviews Materials*, **2020**, 5, 637-639	73.3	100
235	Superplasticity and grain boundary sliding characteristics in two stage deformation of MgBAl1Zn alloy sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 339, 81-89	5.3	95
234	Time gap effect on bond strength of 3D-printed concrete. *Virtual and Physical Prototyping*, **2019**, 14, 104-113	10.1	87
233	The Effect of Material Fresh Properties and Process Parameters on Buildability and Interlayer Adhesion of 3D Printed Concrete. *Materials*, **2019**, 12,	3.5	83
232	A systematical review of 3D printable cementitious materials. *Construction and Building Materials*, **2019**, 207, 477-490	6.7	83
231	Synthesis and characterization of one-part geopolymers for extrusion based 3D concrete printing. *Journal of Cleaner Production*, **2019**, 220, 610-619	10.3	81
230	Extrusion and rheology characterization of geopolymer nanocomposites used in 3D printing. *Composites Part B: Engineering*, **2019**, 176, 107290	10	80
229	Tensile and compressive properties of carbon nanotube bundles. *Acta Materialia*, **2006**, 54, 225-231	8.4	77
228	Analysis of laminated composite beams and plates with piezoelectric patches using the element-free Galerkin method. *Computational Mechanics*, **2002**, 29, 486-497	4	76
227	Analysis of rectangular laminated composite plates via FSDT meshless method. *International Journal of Mechanical Sciences*, **2002**, 44, 1275-1293	5.5	75
226	Buckling properties of carbon nanotube bundles. *Applied Physics Letters*, **2005**, 87, 041901	3.4	70
225	Effect of printing parameters in 3D concrete printing: Printing region and support structures. *Journal of Materials Processing Technology*, **2019**, 271, 261-270	5.3	69
224	Applications of superplastic forming and diffusion bonding to hollow engine blades. *Journal of Materials Processing Technology*, **2000**, 99, 80-85	5.3	69
223	Fabrication of a new Al-Al2O3-CNTs composite using friction stir processing (FSP). *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 667, 125-131	5.3	68
222	Effects of nano-Al2O3 particle addition on grain structure evolution and mechanical behaviour of friction-stir-processed Al. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 602, 143-149	5.3	66

221	Rheological behavior of high volume fly ash mixtures containing micro silica for digital construction application. *Materials Letters*, **2019**, 237, 348-351	3.3	66
220	Investigation of the properties of alkali-activated slag mixes involving the use of nanoclay and nucleation seeds for 3D printing. *Composites Part B: Engineering*, **2020**, 186, 107826	10	64
219	Microstructure and heterogeneous nucleation phenomena in cast SiC particles reinforced magnesium composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 282, 232-239	5.3	63
218	High-temperature tensile properties of Mg/Al2O3 nanocomposite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 486, 56-62	5.3	61
217	Mixture Design Approach to optimize the rheological properties of the material used in 3D cementitious material printing. *Construction and Building Materials*, **2019**, 198, 245-255	6.7	61
216	Friction stir processing of aluminium alloy AA7075: Microstructure, surface chemistry and corrosion resistance. *Corrosion Science*, **2016**, 106, 217-228	6.8	60
215	Effect of cooling rate on the phase transformation behavior and mechanical properties of Ni-rich NiTi shape memory alloy. *Journal of Alloys and Compounds*, **2009**, 469, 164-168	5.7	59
214	Osmotic membrane bioreactor for municipal wastewater treatment and the effects of silver nanoparticles on system performance. *Journal of Cleaner Production*, **2015**, 88, 146-151	10.3	56
213	Investigation on Properties of ECC Incorporating Crumb Rubber of Different Sizes. *Journal of Advanced Concrete Technology*, **2015**, 13, 241-251	2.3	56
212	Processing and Properties of Construction Materials for 3D Printing. *Materials Science Forum*, **2016**, 861, 177-181	0.4	52
211	Comparative economic, environmental and productivity assessment of a concrete bathroom unit fabricated through 3D printing and a precast approach. *Journal of Cleaner Production*, **2020**, 261, 121245	10.3	52
210	Feasibility study on sustainable magnesium potassium phosphate cement paste for 3D printing. *Construction and Building Materials*, **2019**, 221, 595-603	6.7	50
209	Nonlinear analysis of laminated composite plates using the mesh-free kp-Ritz method based on FSDT. *Computer Methods in Applied Mechanics and Engineering*, **2004**, 193, 4763-4779	5.7	50
208	Superplasticity in a rolled Mg□Al□Zn alloy by two-stage deformation method. *Scripta Materialia*, **2002**, 47, 101-106	5.6	50
207	Cavity growth and filament formation of superplastically deformed Al 7475 Alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 298, 235-244	5.3	50
206	Progressive microforming process: towards the mass production of micro-parts using sheet metal. *International Journal of Advanced Manufacturing Technology*, **2013**, 66, 611-621	3.2	49
205	CHOP deficiency results in elevated lipopolysaccharide-induced inflammation and kidney injury. *American Journal of Physiology - Renal Physiology*, **2013**, 304, F440-50	4.3	45
204	Printability and fire performance of a developed 3D printable fibre reinforced cementitious composites under elevated temperatures. *Virtual and Physical Prototyping*, **2019**, 14, 284-292	10.1	45

203	Empirical models to predict rheological properties of fiber reinforced cementitious composites for 3D printing. *Construction and Building Materials*, **2018**, 189, 676-685	6.7	45
202	Nucleation phenomenon in SiC particulate reinforced magnesium composite. *Scripta Materialia*, **1999**, 41, 967-971	5.6	44
201	Postbuckling analysis of laminated composite plates using the mesh-free kp-Ritz method. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 551-570	5.7	39
200	Utilization of recycled glass for 3D concrete printing: rheological and mechanical properties. *Journal of Material Cycles and Waste Management*, **2019**, 21, 994-1003	3.4	37
199	Current challenges and future potential of 3D concrete printing. *Materialwissenschaft Und Werkstofftechnik*, **2018**, 49, 666-673	0.9	37
198	A large-scale superhydrophobic surface-enhanced Raman scattering (SERS) platform fabricated via capillary force lithography and assembly of Ag nanocubes for ultratrace molecular sensing. *Physical Chemistry Chemical Physics*, **2014**, 16, 26983-90	3.6	37
197	Dynamic analysis of laminated composite plates with piezoelectric sensor/actuator patches using the FSDT mesh-free method. *International Journal of Mechanical Sciences*, **2004**, 46, 411-431	5.5	37
196	Role of reinforcement in sintering of SiC/316L stainless steel composite. *Powder Metallurgy*, **2000**, 43, 350-352	1.9	35
195	Designing spray-based 3D printable cementitious materials with fly ash cenosphere and air entraining agent. *Construction and Building Materials*, **2019**, 211, 1073-1084	6.7	34
194	In□vitro corrosion behaviors of Mg67Zn28Ca5 alloy: From amorphous to crystalline. *Materials Chemistry and Physics*, **2012**, 134, 1079-1087	4.4	34
193	Formability in AA5083 and AA6061 alloys for light weight applications. *Materials & Design*, **2010**, 31, S66-S70		34
192	Enhanced superplasticity in commercially pure titanium alloy. *Scripta Materialia*, **2005**, 52, 651-655	5.6	33
191	On the microstructure of micro-pins manufactured by a novel progressive microforming process. *International Journal of Material Forming*, **2013**, 6, 65-74	2	31
190	Analysis of Ti□Ni□Hf shape memory alloys by combinatorial nanocalorimetry. *Acta Materialia*, **2011**, 59, 7602-7614	8.4	31
189	Superplastic-like forming of non-superplastic AA5083 combined with mechanical pre-forming. *International Journal of Advanced Manufacturing Technology*, **2011**, 52, 123-129	3.2	31
188	Carbon Nanotube Evolution in Aluminum Matrix during Composite Fabrication Process. *Materials Science Forum*, **2011**, 690, 294-297	0.4	30
187	High temperature deformation in Ti□Al□.5Sn alloy. *Journal of Materials Processing Technology*, **2007**, 192-193, 434-438	5.3	30
186	Manufacturing of Aluminum Matrix Composites Reinforced with Iron Oxide (Fe3O4) Nanoparticles: Microstructural and Mechanical Properties. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2014**, 45, 352-362	2.5	29

185	Nanoindentation study of size effect and loading rate effect on mechanical properties of a thin film metallic glass Cu49.3Zr50.7. *Physica B: Condensed Matter*, **2012**, 407, 340-346	2.8	29
184	Chloride ingress in cracked and uncracked SHCC under cyclic wetting-drying exposure. *Construction and Building Materials*, **2016**, 114, 232-240	6.7	29
183	Strain Rate Insensitive Plasticity in Aluminum Alloy 5083. *Scripta Materialia*, **1998**, 38, 1255-1261	5.6	28
182	Tensile flow behavior of AZ31 magnesium alloy processed by severe plastic deformation and post-annealing at moderately high temperatures. *Journal of Materials Processing Technology*, **2017**, 246, 235-244	5.3	27
181	A theoretical model for the bending of a laminated beam with SMA fiber embedded layer. *Composite Structures*, **2009**, 90, 458-464	5.3	27
180	Piezothermoelastic analysis of a piezoelectric material with an elliptic cavity under uniform heat flow. *Archive of Applied Mechanics*, **1998**, 68, 719-733	2.2	27
179	Processing and interface stability of SiC fiber reinforced Ti□15V□3Cr matrix composites. *Journal of Materials Processing Technology*, **2000**, 102, 215-220	5.3	27
178	An Arrhenius equation-based model to predict the residual stress relief of post weld heat treatment of Ti-6Al-4V plate. *Journal of Manufacturing Processes*, **2018**, 32, 763-772	5	26
177	Development of non-flammable high strength AZ91 + Ca alloys via liquid forging and extrusion. *Materials and Design*, **2016**, 99, 37-43	8.1	26
176	Effect of Deformation and Temperature Paths in Severe Plastic Deformation Using Groove Pressing on Microstructure, Texture, and Mechanical Properties of AZ31-O. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2015**, 137,	3.3	26
175	Optimization of axisymmetric open-die micro-forging/extrusion processes: An upper bound approach. *International Journal of Mechanical Sciences*, **2013**, 71, 58-67	5.5	26
174	A simple approach to prepare Al/CNT composite: Spread□ispersion (SD) method. *Materials Letters*, **2011**, 65, 2742-2744	3.3	26
173	Twisting effects of carbon nanotube bundles subjected to axial compression and tension. *Journal of Applied Physics*, **2006**, 99, 114312	2.5	26
172	Three-dimensional modeling and simulation of superplastic forming. *Journal of Materials Processing Technology*, **2004**, 150, 76-83	5.3	26
171	Hydrothermally deposited protective and bioactive coating for magnesium alloys for implant application. *Surface and Coatings Technology*, **2014**, 258, 931-937	4.4	25
170	EXPLORING THE ANTISTICKING PROPERTIES OF SOLID LUBRICANT THIN FILMS IN TRANSFER MOLDING. *International Journal of Modern Physics B*, **2002**, 16, 1080-1085	1.1	25
169	Alpha casing and superplastic behavior of Ti□Al□V. *Journal of Materials Processing Technology*, **2001**, 112, 24-28	5.3	24
168	Improving surface finish quality in extrusion-based 3D concrete printing using machine learning-based extrudate geometry control. *Virtual and Physical Prototyping*, **2020**, 15, 178-193	10.1	23

167	Superplastic-like forming of Ti-6Al-4V alloy. *International Journal of Advanced Manufacturing Technology*, **2013**, 69, 1097-1104	3.2	23
166	Grain size and workpiece dimension effects on material flow in an open-die micro-forging/extrusion process. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 582, 379-388	5.3	23
165	Optimal process design of sheet metal forming for minimum springback via an integrated neural network evolutionary algorithm. *Structural and Multidisciplinary Optimization*, **2004**, 26, 284-294	3.6	23
164	Springback analysis for sheet forming processes by explicit finite element method in conjunction with the orthogonal regression analysis. *International Journal of Solids and Structures*, **1999**, 36, 4653-4668	3.1	22
163	Investigation of interlayer adhesion of 3D printable cementitious material from the aspect of printing process. *Cement and Concrete Research*, **2021**, 143, 106386	10.3	22
162	Mechanism of calcium phosphate deposition in a hydrothermal coating process. *Surface and Coatings Technology*, **2015**, 270, 197-205	4.4	20
161	Effect of cold-work on the Hall□Petch breakdown in copper based micro-components. *Mechanics of Materials*, **2015**, 80, 124-135	3.3	20
160	Towards sustainability-oriented decision making: Model development and its validation via a comparative case study on building construction methods. *Sustainable Development*, **2019**, 27, 860-872	6.7	19
159	Improved corrosion protection of magnesium by hydrothermally deposited biodegradable calcium phosphate coating. *Materials Chemistry and Physics*, **2015**, 161, 185-193	4.4	19
158	Synthesis, characterization and mechanical properties of nano alumina particulate reinforced magnesium based bulk metallic glass composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 6045-6050	5.3	19
157	Microstructural evolution and superplastic behavior in friction stir processed Mg□Li□Al□Zn alloy. *Journal of Materials Science*, **2013**, 48, 8539-8546	4.3	18
156	Discontinuous reinforcements in extruded aluminium-lithium matrix composites. *Journal of Materials Processing Technology*, **1993**, 37, 391-403	5.3	18
155	Valproic acid exhibits anti-tumor activity selectively against EGFR/ErbB2/ErbB3-coexpressing pancreatic cancer via induction of ErbB family members-targeting microRNAs. *Journal of Experimental and Clinical Cancer Research*, **2019**, 38, 150	12.8	17
154	Study of MgO-activated slag as a cementless material for sustainable spray-based 3D printing. *Journal of Cleaner Production*, **2020**, 258, 120671	10.3	17
153	Modelling and parameter optimization for filament deformation in 3D cementitious material printing using support vector machine. *Composites Part B: Engineering*, **2020**, 193, 108018	10	17
152	Aluminium-lithium/SiCp composites produced by mechanically milled powders. *Journal of Materials Processing Technology*, **1997**, 67, 8-12	5.3	17
151	Effect of grain boundary character distribution (GBCD) on the cavitation behaviour during superplastic deformation of Al 7475. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 338, 243-252	5.3	17
150	A further investigation of Green's functions for a piezoelectric material with a cavity or a crack. *International Journal of Solids and Structures*, **2000**, 37, 1065-1078	3.1	17

149	Enabling Wider Use of Magnesium Alloys for Lightweight Applications by Improving the Formability by Groove Pressing. *Procedia CIRP*, **2015**, 26, 449-454	1.8	16
148	Bonding strength of Al/Mg/Al alloy tri-metallic laminates fabricated by hot rolling. *Bulletin of Materials Science*, **2011**, 34, 805-810	1.7	16
147	EBSD characterization of 8090 Al□i alloy during dynamic and static recrystallization. *Materials Characterization*, **2004**, 52, 187-193	3.9	16
146	In vitro metal ion release and biocompatibility of amorphous Mg67Zn28Ca5 alloy with/without gelatin coating. *Materials Science and Engineering C*, **2013**, 33, 5019-27	8.3	15
145	Process optimization and microstructural development during superplastic-like forming of AA5083. *International Journal of Advanced Manufacturing Technology*, **2013**, 69, 2415-2422	3.2	15
144	Electrical characterisation of RF capacitive microswitch. *Sensors and Actuators A: Physical*, **2003**, 102, 296-310	3.9	15
143	A note on fluid-pressure-assisted deep drawing processes. *Journal of Materials Processing Technology*, **2006**, 172, 174-181	5.3	14
142	Novel biodegradable calcium phosphate/polymer composite coating with adjustable mechanical properties formed by hydrothermal process for corrosion protection of magnesium substrate. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 1643-1657	3.5	14
141	Electrophoretic deposition of hydroxyapatite coatings on AZ31 magnesium substrate for biodegradable implant applications. *Progress in Crystal Growth and Characterization of Materials*, **2014**, 60, 74-79	3.5	13
140	Development of nano-ZrO2 reinforced magnesium nanocomposites with significantly improved ductility. *Materials Science and Technology*, **2007**, 23, 1309-1312	1.5	13
139	Synchronized concrete and bonding agent deposition system for interlayer bond strength enhancement in 3D concrete printing. *Automation in Construction*, **2021**, 123, 103546	9.6	13
138	Finite element modelling of superplastic-like forming using a dislocation density-based model for AA5083. *Modelling and Simulation in Materials Science and Engineering*, **2013**, 21, 025006	2	12
137	Effect of severe plastic deformation and post-annealing on the mechanical properties and bio-corrosion rate of AZ31 magnesium alloy. *Procedia Engineering*, **2017**, 207, 1475-1480		12
136	Microstructure Stability of a Fine-Grained AZ31 Magnesium Alloy Processed by Constrained Groove Pressing During Isothermal Annealing. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2017**, 139,	3.3	11
135	Bonding temperature effects on the wide gap transient liquid phase bonding of Inconel 718 using BNi-2 paste filler metal. *Applied Surface Science*, **2019**, 484, 1223-1233	6.7	11
134	Fenofibrate Rescues Diabetes-Related Impairment of Ischemia-Mediated Angiogenesis by PPAR□ndependent Modulation of Thioredoxin-Interacting Protein. *Diabetes*, **2019**, 68, 1040-1053	0.9	11
133	Joining of 3D-printed AlSi10Mg by friction stir welding. *Welding in the World, Le Soudage Dans Le Monde*, **2018**, 62, 675-682	1.9	11
132	Effect of annealing on microstructure evolution and mechanical property of cold forged magnesium pipes. *Materials & Design*, **2012**, 39, 131-139		11

131	Improving the mechanical properties of TIG welding Ti-6Al-4V by post weld heat treatment. *Procedia Engineering*, **2017**, 207, 633-638		11
130	Three New Peroxy Triterpene Lactones from Pseudolarix kaempferi. *Helvetica Chimica Acta*, **2011**, 94, 1697-1702	2	11
129	Effect of exposure of human monocyte-derived macrophages to high, versus normal, glucose on subsequent lipid accumulation from glycated and acetylated low-density lipoproteins. *Experimental Diabetes Research*, **2011**, 2011, 851280		11
128	Cavitation phenomenon of commercially pure titanium. *Journal of Materials Processing Technology*, **2007**, 191, 202-205	5.3	11
127	Investigation of porosity reduction, microstructure and mechanical properties for joining of selective laser melting fabricated aluminium composite via friction stir welding. *Journal of Manufacturing Processes*, **2018**, 36, 33-43	5	11
126	Recent developments in friction-assisted sheet metal forming processes. *Journal of Materials Processing Technology*, **2005**, 167, 161-166	5.3	10
125	Influence of Alpha Casing on Superplastic Deformation of Ti-6Al-4V. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2001**, 123, 144-147	1.8	10
124	Friction stir processing of Al□CNT composites. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2016**, 230, 825-833	1.3	10
123	Experimental and Simulation of Friction Effects in an Open-Die Microforging/Extrusion Process. *Journal of Micro and Nano-Manufacturing*, **2014**, 2,	1.3	9
122	Facilitating Basal Slip to Increase Deformation Ability in Mg-Mn-Ce Alloy by Textural Reconstruction Using Friction Stir Processing. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3947-3960	2.3	9
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120	Friction Effects During Open-die Micro-forging/Extrusion Processes: An Upper Bound Approach. *Procedia Engineering*, **2014**, 81, 1915-1920		9
119	Humoral theory of transplantation: some hot topics. *British Medical Bulletin*, **2013**, 105, 139-55	5.4	9
118	Rapid thermal annealing of Ti-rich TiNi thin films: A new approach to fabricate patterned shape memory thin films. *Materials & Design*, **2011**, 32, 688-695		9
117	Chemical constituents of Equisetum debile. *Journal of Asian Natural Products Research*, **2011**, 13, 811-6	1.5	9
116	Improved Tensile Strength of Carbon Nanotube Reinforced Aluminum Composites Processed by Powder Metallurgy. *Advanced Materials Research*, **2012**, 500, 651-656	0.5	9
115	Investigations into collar drawing using urethane pads. *Journal of Materials Processing Technology*, **2007**, 191, 87-91	5.3	9
114	Grain boundary characterisation in superplastic deformation of Al-Li alloy using electron backscatter diffraction. *Materials Science and Technology*, **2004**, 20, 173-180	1.5	9

113	EBSD characterization of cavitation during superplastic deformation of Al□i alloy. *Journal of Materials Processing Technology*, **2005**, 162-163, 429-434	5.3	9
112	Use of magnesium-silicate-hydrate (M-S-H) cement mixes in 3D printing applications. *Cement and Concrete Composites*, **2021**, 117, 103901	8.6	9
111	Experimental measurement on the effects of recycled glass cullets as aggregates for construction 3D printing. *Journal of Cleaner Production*, **2021**, 300, 126919	10.3	9
110	Aluminium-carbon nanotubes composites produced from friction stir processing and selective laser melting. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 539-548	0.9	9
109	Rotation nozzle and numerical simulation of mass distribution at corners in 3D cementitious material printing. *Additive Manufacturing*, **2020**, 34, 101190	6.1	8
108	Effect of Nano-Particle Addition on Grain Structure Evolution of Friction Stir-Processed Al 6061 During Postweld Annealing. *Jom*, **2016**, 68, 2268-2273	2.1	8
107	Treatment of radiation-induced acute intestinal injury with bone marrow-derived mesenchymal stem cells. *Experimental and Therapeutic Medicine*, **2016**, 11, 2425-2431	2.1	8
106	Post-bond heat treatment effects on the wide gap transient liquid phase bonding of Inconel 718 with BNi-2 paste filler metal. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 766, 138267	5.3	8
105	Manufacturing of an aluminum alloy mold for micro-hot embossing of polymeric micro-devices. *Journal of Micromechanics and Microengineering*, **2010**, 20, 055020	2	8
104	Dislocation Model for Continuous Recrystallisation during Initial Stage of Superplastic Deformation. *Scripta Materialia*, **1998**, 38, 827-831	5.6	8
103	Matrix reinforcement interaction in SiC/316L stainless steel composite. *Journal of Materials Science Letters*, **2000**, 19, 613-615		8
102	Identification of disease-related miRNAs based on co-expression network in spinal cord injury. *International Journal of Neuroscience*, **2015**, 125, 270-6	2	7
101	High temperature deformation behavior of Mg67Zn28Ca5 metallic glass and its composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2015**, 621, 1-7	5.3	7
100	Deformation behavior of Mg67Zn28Ca5 metallic glass at near supercooled liquid region. *Journal of Alloys and Compounds*, **2013**, 549, 100-104	5.7	7
99	Microstructure Evolution of Ti-6Al-4V during Superplastic-like Forming. *Procedia Engineering*, **2014**, 81, 1090-1095		7
98	Magnesium and Aluminium Carbon Nanotube Composites. *Key Engineering Materials*, **2010**, 425, 245-261	0.4	7
97	Selection of particulate reinforcement in P/M metal matrix composites. *Journal of Materials Processing Technology*, **1997**, 63, 913-917	5.3	7
96	Thermal cycling processes in metal-matrix composites. *Journal of Materials Processing Technology*, **1997**, 67, 62-66	5.3	7

95	Dispersion of CNTs in Selective Laser Melting Printed AlSi10Mg Composites via Friction Stir Processing. *Materials Science Forum*, **2016**, 879, 1915-1920	0.4	7
94	Bond Strength in 3D Printed Geopolymer Mortar. *RILEM Bookseries*, **2019**, 200-206	0.5	7
93	Strength of donor-specific antibodies with the use of Luminex single-antigen beads is a reliable predictor of acute rejection in living-relative kidney recipients. *Transplantation Proceedings*, **2015**, 47, 309-12	1.1	6
92	Strain hardening at elevated temperatures induced by dynamic crystallization of an Al88Ni4Y8 amorphous alloy. *Scripta Materialia*, **2012**, 66, 382-385	5.6	6
91	Corrosion performance of melt-spun Mg67Zn28Ca5 metallic glass in artificial sweat. *Journal of Materials Science*, **2012**, 47, 6586-6592	4.3	6
90	Tension-Tension Fatigue Behaviour of Carbon Nanotube Reinforced Aluminium Composites. *Materials Science Forum*, **2013**, 765, 563-567	0.4	6
89	Investigation of Process Parameters in Superplastic Forming of Mechanical Pre-Formed Sheet by FEM. *Key Engineering Materials*, **2010**, 447-448, 437-441	0.4	6
88	Nanoindentation of Multi-Wall CNT Reinforced Al Composites. *Key Engineering Materials*, **2010**, 447-448, 549-553	0.4	6
87	Isothermal Rolling of Mg-Based Laminated Composites Made by Explosion Cladding. *Key Engineering Materials*, **2010**, 443, 614-619	0.4	6
86	Evolution of structural, surfacial and mechanical properties of titanium–nickel–copper thin films during rapid thermal annealing. *Surface and Coatings Technology*, **2011**, 205, 3147-3157	4.4	6
85	Influence of cavity boundary conditions on the effective electroelastic moduli of piezoelectric ceramic with cavities. *Mechanics Research Communications*, **1999**, 26, 229-238	2.2	6
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83	Automation of Robotic Concrete Printing Using Feedback Control System **2017**,		6
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