

# Sankaranarayanan Seetharaman

## List of Publications by Citations

**Source:**

<https://exaly.com/author-pdf/8950456/sankaranarayanan-seetharaman-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

270  
papers

8,802  
citations

51  
h-index

83  
g-index

279  
ext. papers

9,936  
ext. citations

3.7  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
270	Properties and deformation behaviour of Mg/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Acta Materialia</i> , <b>2007</b> , 55, 5115-5128.	8.4	313
269	Magnesium-based nanocomposites: Lightweight materials of the future. <i>Materials Characterization</i> , <b>2015</b> , 105, 30-46	3.9	233
268	Development of novel carbon nanotube reinforced magnesium nanocomposites using the powder metallurgy technique. <i>Nanotechnology</i> , <b>2006</b> , 17, 7-12	3.4	233
267	Development of high performance magnesium nano-composites using nano-Al <sub>2</sub> O <sub>3</sub> as reinforcement. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 392, 163-168	5.3	232
266	Enhancing overall mechanical performance of metallic materials using two-directional microwave assisted rapid sintering. <i>Scripta Materialia</i> , <b>2005</b> , 52, 479-483	5.6	218
265	Simultaneous enhancement in strength and ductility by reinforcing magnesium with carbon nanotubes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 423, 153-156	5.3	185
264	Ductility improvement and fatigue studies in Mg-CNT nanocomposites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1432-1439	8.6	174
263	Development of ductile magnesium composite materials using titanium as reinforcement. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 345, 246-251	5.7	170
262	Synthesis, microstructure and properties characterization of disintegrated melt deposited Mg/SiC composites. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 2155-2165	4.3	160
261	<b>2011,</b>		152
260	Development of Mg/Cu nanocomposites using microwave assisted rapid sintering. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1541-1552	8.6	152
259	Improving mechanical properties of magnesium using nano-yttria reinforcement and microwave assisted powder metallurgy method. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2657-2664	8.6	150
258	Increasing significantly the failure strain and work of fracture of solidification processed AZ31B using nano-Al <sub>2</sub> O <sub>3</sub> particulates. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 459, 244-250	5.7	134
257	Mg-based composite reinforced by Mg <sub>2</sub> Si. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 627-632	8.6	134
256	<b>2007,</b>		130
255	Effect of particulate size of Al <sub>2</sub> O <sub>3</sub> reinforcement on microstructure and mechanical behavior of solidification processed elemental Mg. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 419, 84-90	5.7	123
254	Mechanical Properties of Magnesium-Rare Earth Alloy Systems: A Review. <i>Metals</i> , <b>2015</b> , 5, 1-39	2.3	119

253	Enhancing compressive response of AZ31B magnesium alloy using alumina nanoparticulates. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2185-2192	8.6	115
252	Effect of different types of nano-size oxide particulates on microstructural and mechanical properties of elemental Mg. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 2229-2236	4.3	115
251	Enhancing physical and mechanical properties of Mg using nanosized Al <sub>2</sub> O <sub>3</sub> particulates as reinforcement. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 2253-2258	2.3	112
250	Enhancing strength and ductility of magnesium by integrating it with aluminum nanoparticles. <i>Acta Materialia</i> , <b>2007</b> , 55, 6338-6344	8.4	108
249	Influence of processing parameters during disintegrated melt deposition processing on near net shape synthesis of aluminium based metal matrix composites. <i>Materials Science and Technology</i> , <b>1999</b> , 15, 1139-1146	1.5	99
248	Hierarchical magnesium nano-composites for enhanced mechanical response. <i>Acta Materialia</i> , <b>2010</b> , 58, 6104-6114	8.4	95
247	Effect of reinforcement concentration on the properties of hot extruded Al-Al <sub>2</sub> O <sub>3</sub> composites synthesized through microwave sintering process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 696, 60-69	5.3	94
246	Development of a novel magnesium/copper based composite with improved mechanical properties. <i>Materials Research Bulletin</i> , <b>2002</b> , 37, 377-389	5.1	91
245	Development of a novel magnesium/nickel composite with improved mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 335, L10-L15	5.7	88
244	Dry sliding wear behaviour of zinc oxide reinforced magnesium matrix nano-composites. <i>Materials &amp; Design</i> , <b>2014</b> , 58, 475-481		85
243	Development of high strength magnesium copper based hybrid composites with enhanced tensile properties. <i>Materials Science and Technology</i> , <b>2003</b> , 19, 253-259	1.5	81
242	Slurry erosion characteristics and erosion mechanisms of stainless steel. <i>Tribology International</i> , <b>2014</b> , 79, 1-7	4.9	73
241	An Insight into Evolution of Light Weight High Entropy Alloys: A Review. <i>Metals</i> , <b>2016</b> , 6, 199	2.3	73
240	Interface tailoring to enhance mechanical properties of carbon nanotube reinforced magnesium composites. <i>Materials &amp; Design</i> , <b>2014</b> , 60, 490-495		69
239	Enhancing overall tensile and compressive response of pure Mg using nano-TiB <sub>2</sub> particulates. <i>Materials Characterization</i> , <b>2014</b> , 94, 178-188	3.9	67
238	An insight into ignition factors and mechanisms of magnesium based materials: A review. <i>Materials and Design</i> , <b>2017</b> , 113, 84-98	8.1	66
237	Simultaneously Improving Strength and Ductility of Magnesium using Nano-size SiC Particulates and Microwaves. <i>Advanced Engineering Materials</i> , <b>2006</b> , 8, 735-740	3.5	66
236	Development of high strength magnesium based composites using elemental nickel particulates as reinforcement. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 2467-2474	4.3	66

235	Effect of impact angle and testing time on erosion of stainless steel at higher velocities. <i>Wear</i> , <b>2014</b> , 321, 87-93	3.5	65
234	Enhancing compressive response of AZ31B using nano-Al <sub>2</sub> O <sub>3</sub> and copper additions. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 490, 382-387	5.7	65
233	Effect of type of primary processing on the microstructure, CTE and mechanical properties of magnesium/alumina nanocomposites. <i>Composite Structures</i> , <b>2006</b> , 72, 19-26	5.3	64
232	High-temperature tensile properties of Mg/Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 486, 56-62	5.3	61
231	Enhancing strength and ductility of Mg/SiC composites using recrystallization heat treatment. <i>Composite Structures</i> , <b>2006</b> , 72, 266-272	5.3	61
230	Development of high performance Mg/TiO <sub>2</sub> nanocomposites targeting for biomedical/structural applications. <i>Materials &amp; Design</i> , <b>2015</b> , 65, 104-114		60
229	Simultaneous enhancement of tensile/compressive strength and ductility of magnesium alloy AZ31 using carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 956-64	1.3	60
228	Investigation into tensile and compressive responses of Mg/ZnO composites. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 582-588	1.5	57
227	Synthesis and mechanical behavior of carbon nanotube/magnesium composites hybridized with nanoparticles of alumina. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 466, 32-37	5.3	56
226	The mechanical behavior of magnesium alloy AZ91 reinforced with fine copper particulates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 369, 302-308	5.3	56
225	Development of high performance Mg/Al <sub>2</sub> O <sub>3</sub> composites containing Al <sub>2</sub> O <sub>3</sub> in submicron length scale using microwave assisted rapid sintering. <i>Materials Science and Technology</i> , <b>2005</b> , 21, 1063-1070	1.5	54
224	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticulates. <i>International Journal of Materials Research</i> , <b>2016</b> , 107, 1091-1099	0.5	53
223	Nano-ZnO particle addition to monolithic magnesium for enhanced tensile and compressive response. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, 211-219	5.7	53
222	Microstructure and Mechanical Characteristics of AZ31B/Al <sub>2</sub> O <sub>3</sub> Nanocomposite with Addition of Ca. <i>Journal of Composite Materials</i> , <b>2009</b> , 43, 5-17	2.7	53
221	Improving Overall Mechanical Performance of Magnesium Using Nano-Alumina Reinforcement and Energy Efficient Microwave Assisted Processing Route. <i>Advanced Engineering Materials</i> , <b>2007</b> , 9, 902-909	3.5	52
220	Synthesis and Characterization of Nano Boron Nitride Reinforced Magnesium Composites Produced by the Microwave Sintering Method. <i>Materials</i> , <b>2013</b> , 6, 1940-1955	3.5	51
219	Effect of ball milling the hybrid reinforcements on the microstructure and mechanical properties of Mg/(Ti + n-Al <sub>2</sub> O <sub>3</sub> ) composites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7229-7237	5.7	51
218	Structural and mechanical properties of Ni <sub>60</sub> Nb <sub>40</sub> amorphous alloy particle reinforced Al-based composites produced by microwave-assisted rapid sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 581, 119-127	5.3	50

217	Effect of length scale of Al <sub>2</sub> O <sub>3</sub> particulates on microstructural and tensile properties of elemental Mg. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 425, 22-27	5.3	49
216	Development of hybrid Mg/Al <sub>2</sub> O <sub>3</sub> composites with improved properties using microwave assisted rapid sintering route. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 3395-3402	4.3	48
215	Development of novel Mg <sub>60</sub> Ni <sub>60</sub> Nb <sub>40</sub> amorphous particle reinforced composites with enhanced hardness and compressive response. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 849-855		47
214	Synthesis and characterization of high performance low volume fraction TiC reinforced Mg nanocomposites targeting biocompatible/structural applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 627, 306-315	5.3	46
213	Development of lead-free Sn-3.5Ag/SnO <sub>2</sub> nanocomposite solders. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 571-576	2.1	46
212	Reinforcements at nanometer length scale and the electrical resistivity of lead-free solders. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 458-461	5.7	45
211	Nano-AlN particle reinforced Mg composites: microstructural and mechanical properties. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 1122-1131	1.5	44
210	Effect of submicron size Al <sub>2</sub> O <sub>3</sub> particulates on microstructural and tensile properties of elemental Mg. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 457, 244-250	5.7	44
209	Progress in research on hybrid metal matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 838, 155274	5.7	43
208	Investigation on dry sliding wear behavior of Mg/BN nanocomposites. <i>Journal of Magnesium and Alloys</i> , <b>2018</b> , 6, 263-276	8.8	43
207	Improved properties of Al <sub>5</sub> Bi <sub>3</sub> N <sub>4</sub> nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , <b>2017</b> , 7, 34401-34410	3.7	43
206	Aluminum and Magnesium Metal Matrix Nanocomposites. <i>Engineering Materials</i> , <b>2017</b> ,	0.4	43
205	Adding carbon nanotubes and integrating with AA5052 aluminium alloy core to simultaneously enhance stiffness, strength and failure strain of AZ31 magnesium alloy. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1490-1500	8.4	43
204	Effect of nanoscale boron carbide particle addition on the microstructural evolution and mechanical response of pure magnesium. <i>Materials &amp; Design</i> , <b>2014</b> , 56, 428-436		42
203	Carbon nanotube addition to concentrated magnesium alloy AZ81: Enhanced ductility with occasional significant increase in strength. <i>Materials &amp; Design</i> , <b>2013</b> , 45, 15-23		42
202	Development of magnesium/(yttria+nickel) hybrid nanocomposites using hybrid microwave sintering: Microstructure and tensile properties. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 487, 76-82	5.7	42
201	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 762, 398-408	5.7	42
200	Enhancing thermal and mechanical response of aluminum using nanolength scale TiC ceramic reinforcement. <i>Ceramics International</i> , <b>2018</b> , 44, 9247-9254	5.1	41

199	Effect of Ag and Cu trace additions on the microstructural evolution and mechanical properties of Mg <sub>85</sub> Sn alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 565, 56-65	5.7	41
198	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Metals</i> , <b>2017</b> , 7, 357	2.3	41
197	Improvement of microstructure and mechanical properties of AZ91/SiC composite by mechanical alloying. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 5553-5561	4.3	41
196	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. <i>Materials</i> , <b>2017</b> , 10,	3.5	40
195	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 485-492	10	39
194	Low volume fraction nano-titanium particulates for improving the mechanical response of pure magnesium. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 593, 176-183	5.7	39
193	Development of high performance magnesium composites using Ni <sub>50</sub> Ti <sub>50</sub> metallic glass reinforcement and microwave sintering approach. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 627, 192-199	5.7	39
192	On the role of nano-alumina particulate reinforcements in enhancing the oxidation resistance of magnesium alloy AZ31B. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 500, 233-237	5.3	39
191	Additive manufacturing of magnesium-zinc-zirconium (ZK) alloys via capillary-mediated binderless three-dimensional printing. <i>Materials and Design</i> , <b>2019</b> , 169, 107683	8.1	38
190	Microstructural evolution and mechanical properties of Mg composites containing nano-B <sub>4</sub> C hybridized micro-Ti particulates. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 143, 1178-1190	4.4	38
189	Enhancing Thermal Stability, Modulus and Ductility of Magnesium using Molybdenum as Reinforcement. <i>Advanced Engineering Materials</i> , <b>2005</b> , 7, 250-256	3.5	38
188	Processing-microstructure-mechanical properties of an Al-Cu/SiC metal matrix composite synthesized using disintegrated melt deposition technique. <i>Materials Research Bulletin</i> , <b>1995</b> , 30, 1525-1534	5.1	37
187	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. <i>Ceramics International</i> , <b>2018</b> , 44, 15035-15043	5.1	37
186	Enhancing damping of pure magnesium using nano-size alumina particulates. <i>Materials Letters</i> , <b>2005</b> , 59, 3851-3855	3.3	36
185	Effect of individual and combined addition of micro/nano-sized metallic elements on the microstructure and mechanical properties of pure Mg. <i>Materials &amp; Design</i> , <b>2012</b> , 37, 274-284		35
184	Effect of heating rate during hybrid microwave sintering on the tensile properties of magnesium and Mg/Y <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 466, 140-145	5.7	35
183	Microstructure and grain growth behavior of an aluminum alloy metal matrix composite processed by disintegrated melt deposition. <i>Journal of Materials Engineering and Performance</i> , <b>1999</b> , 8, 473-478	1.6	34
182	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3612-3620	5.7	33

181	Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary MgAl alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 648, 759-770	5.7	32
180	Effect of addition of mutually soluble and insoluble metallic elements on the microstructure, tensile and compressive properties of pure magnesium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 530, 149-160	5.3	32
179	An investigation into interaction between magnesium powder and Ar gas: Implications for selective laser melting of magnesium. <i>Powder Technology</i> , <b>2018</b> , 333, 252-261	5.2	31
178	Enhancing overall static/dynamic/damping/ignition response of magnesium through the addition of lower amounts (. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 689, 350-358	5.7	30
177	Synthesis and properties of light weight magnesium/nanosphere composite. <i>Materials Science and Technology</i> , <b>2016</b> , 32, 923-929	1.5	30
176	Using Microwave Energy to Synthesize Light Weight/Energy Saving Magnesium Based Materials: A Review. <i>Technologies</i> , <b>2015</b> , 3, 1-18	2.4	30
175	Effect of extrusion ratio on microstructure and mechanical properties of microwave-sintered magnesium and Mg/Y2O3 nanocomposite. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4503-4511	4.3	30
174	A study on the effect of low-cost eggshell reinforcement on the immersion, damping and mechanical properties of magnesium/zinc alloy. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107650	10	30
173	Tailoring the tensile/compressive response of magnesium alloy ZK60A using Al2O3 nanoparticles. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1170-1178	4.3	29
172	Development of high-performance quaternary LPSO Mg/ZnAl alloys by Disintegrated Melt Deposition technique. <i>Materials and Design</i> , <b>2015</b> , 83, 443-450	8.1	28
171	Enhancing Mechanical Response of Monolithic Magnesium Using Nano-NiTi (Nitinol) Particles. <i>Metals</i> , <b>2018</b> , 8, 1014	2.3	28
170	Investigating influence of hybrid (yttria + copper) nanoparticulate reinforcements on microstructural development and tensile response of magnesium. <i>Materials Science and Technology</i> , <b>2010</b> , 26, 87-94	1.5	27
169	Insight into cytotoxicity of Mg nanocomposites using MTT assay technique. <i>Materials Science and Engineering C</i> , <b>2017</b> , 78, 647-652	8.3	26
168	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticulates. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2169-2178	2.5	26
167	Effect of niobium particulate addition on the microstructure and mechanical properties of pure magnesium. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 513, 202-207	5.7	26
166	Tensile and Compressive Responses of Ceramic and Metallic Nanoparticle Reinforced Mg Composites. <i>Materials</i> , <b>2013</b> , 6, 1826-1839	3.5	26
165	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. <i>Metals</i> , <b>2016</b> , 6, 143	2.3	26
164	Effect of hybridizing micron-sized Ti with nano-sized SiC on the microstructural evolution and mechanical response of MgB.6Ti composite. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 575, 207-217	5.7	25

163	Utilizing Low-Cost Eggshell Particles to Enhance the Mechanical Response of Mg <sub>2</sub> .5Zn Magnesium Alloy Matrix. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700919	3.5	24
162	Metallic Amorphous Alloy Reinforcements in Light Metal Matrices. <i>SpringerBriefs in Materials</i> , <b>2015</b> ,	0.5	23
161	Enhancing the Properties of Magnesium using SiC Particulates in Sub-micron Length Scale. <i>Advanced Engineering Materials</i> , <b>2004</b> , 6, 957-964	3.5	23
160	A strong and deformable in-situ magnesium nanocomposite igniting above 1000 °C. <i>Scientific Reports</i> , <b>2018</b> , 8, 7038	4.9	22
159	Enhanced (X-band) microwave shielding properties of pure magnesium by addition of diamagnetic titanium micro-particulates. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 473-482	5.7	22
158	Microwave Synthesis and Characterization of Magnesium Based Composites Containing Nanosized SiC and Hybrid (SiC+Al <sub>2</sub> O <sub>3</sub> ) Reinforcements. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2007</b> , 129, 194-199	1.8	22
157	Introducing Mg-4Zn-3Gd-1Ca/ZnO nanocomposite with compressive strengths matching/exceeding that of mild steel. <i>Scientific Reports</i> , <b>2016</b> , 6, 32395	4.9	21
156	Enhancing mechanical response of AZ31B using Cu + nano-Al <sub>2</sub> O <sub>3</sub> addition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1411-1416	5.3	21
155	Achieving ultra-high strength and good ductility in AZ61 alloy composites containing hybrid micron SiC and carbon nanotubes reinforcements. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 768, 138447	5.3	20
154	Mg/BN nanocomposites: Nano-BN addition for enhanced room temperature tensile and compressive response. <i>Journal of Composite Materials</i> , <b>2015</b> , 49, 3045-3055	2.7	20
153	Influence of nano-alumina and sub-micron copper on mechanical properties of magnesium alloy AZ31. <i>Composites Part B: Engineering</i> , <b>2013</b> , 55, 486-491	10	20
152	Review on mechanical properties of magnesium (nano)composites developed using energy efficient microwaves. <i>Powder Metallurgy</i> , <b>2015</b> , 58, 183-192	1.9	20
151	Effect of sintering techniques on the microstructure and tensile properties of nano-yttria particulates reinforced magnesium nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4341-4347	5.7	20
150	Enhancing tensile and compressive strengths of magnesium using nanosize (Al <sub>2</sub> O <sub>3</sub> + Cu) hybrid reinforcements. <i>Journal of Composite Materials</i> , <b>2012</b> , 46, 1879-1887	2.7	20
149	Enhancing modulus and ductility of Mg/SiC composite through judicious selection of extrusion temperature and heat treatment. <i>Materials Science and Technology</i> , <b>2003</b> , 19, 803-808	1.5	20
148	A paradigm shift towards compositionally zero-sum binderless 3D printing of magnesium alloys via capillary-mediated bridging. <i>Acta Materialia</i> , <b>2019</b> , 165, 294-306	8.4	20
147	Significantly enhancing the strength + ductility combination of Mg-9Al alloy using multi-walled carbon nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 974-982	5.7	19
146	Powder metallurgy hollow fly ash cenospheres particles reinforced magnesium composites. <i>Powder Metallurgy</i> , <b>2016</b> , 59, 188-196	1.9	19



145	Processing and Properties of Aluminum and Magnesium Based Composites Containing Amorphous Reinforcement: A Review. <i>Metals</i> , <b>2015</b> , 5, 743-762	2.3	19
144	Processing, microstructure, and properties of Mg <sub>5</sub> SiC composites synthesised using fluxless casting process. <i>Materials Science and Technology</i> , <b>2001</b> , 17, 823-832	1.5	19
143	Effect of presence and type of particulate reinforcement on the electrical conductivity of non-heat treatable aluminum. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 219, 133-141	5.3	19
142	Effects of Primary Processing Techniques and Significance of Hall-Petch Strengthening on the Mechanical Response of Magnesium Matrix Composites Containing TiO <sub>2</sub> Nanoparticulates. <i>Nanomaterials</i> , <b>2015</b> , 5, 1256-1283	5.4	18
141	Microstructure and mechanical properties of elemental and reinforced magnesium synthesized using a fluxless liquid-phase process. <i>Materials Research Bulletin</i> , <b>1999</b> , 34, 1201-1214	5.1	18
140	Using hybrid reinforcement methodology to enhance overall mechanical performance of pure magnesium. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 2875-2882	4.3	17
139	Magnesium-iron micro-composite for enhanced shielding of electromagnetic pollution. <i>Composites Part B: Engineering</i> , <b>2019</b> , 163, 150-157	10	17
138	Strengthening due to the in-situ evolution of $\beta'$ Mg-Zn rich phase in a ZnO nanoparticles introduced Mg-Y alloy. <i>Scripta Materialia</i> , <b>2017</b> , 133, 29-32	5.6	16
137	Effect of homogenization on enhancing the failure strain of high strength quaternary LPSO Mg <sub>92</sub> Zn <sub>8</sub> Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 644, 405-412	5.3	16
136	A study of the dynamic compressive response of AZ31/Al <sub>2</sub> O <sub>3</sub> nanocomposites and the influence of nanoparticles. <i>International Journal of Impact Engineering</i> , <b>2016</b> , 89, 114-123	4	16
135	Emerging Environment Friendly, Magnesium-Based Composite Technology for Present and Future Generations. <i>Jom</i> , <b>2016</b> , 68, 1890-1901	2.1	16
134	Simultaneous effect of nano-Al <sub>2</sub> O <sub>3</sub> and micrometre Cu particulates on microstructure and mechanical properties of magnesium alloy AZ31. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 227-233	1.5	16
133	Superior ductility in magnesium alloy-based nanocomposites: the crucial role of texture induced by nanoparticles. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 8711-8718	4.3	16
132	Microstructure-sensitive investigation on the plastic deformation and damage initiation of amorphous particles reinforced composites. <i>Composite Structures</i> , <b>2016</b> , 142, 130-139	5.3	15
131	Enhancing the Hardness and Compressive Response of Magnesium Using Complex Composition Alloy Reinforcement. <i>Metals</i> , <b>2018</b> , 8, 276	2.3	15
130	The dynamic compressive response of a high-strength magnesium alloy and its nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 702, 65-72	5.3	15
129	Influence of Micron-Ti and Nano-Cu Additions on the Microstructure and Mechanical Properties of Pure Magnesium. <i>Metals</i> , <b>2012</b> , 2, 274-291	2.3	15
128	Effect of nano-Al <sub>2</sub> O <sub>3</sub> addition and heat treatment on the microstructure and mechanical properties of Mg-(5.6Ti+3Al) composite. <i>Materials Characterization</i> , <b>2013</b> , 75, 150-164	3.9	15

127	Mechanical characteristics of pure Mg and a Mg/Y <sub>2</sub> O <sub>3</sub> nanocomposite in the 25–50 °C temperature range. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3058-3066	4.3	15
126	Compressive deformation behavior of Mg and Mg/(Y <sub>2</sub> O <sub>3</sub> +Ni) nanocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 5550-5558	5.3	15
125	The Cyclic Deformation Behavior of Mg/Y <sub>2</sub> O <sub>3</sub> Nanocomposites. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 2039-2050	2.7	14
124	Damping characterization of magnesium based composites using an innovative circle-fit approach. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 559-568	8.6	14
123	Evolution of texture and asymmetry and its impact on the fatigue behaviour of an in-situ magnesium nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 727, 61-69	5.3	13
122	Influence of Cerium on the Deformation and Corrosion of Magnesium. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2016</b> , 138,	1.8	13
121	Development of nano-ZrO <sub>2</sub> reinforced magnesium nanocomposites with significantly improved ductility. <i>Materials Science and Technology</i> , <b>2007</b> , 23, 1309-1312	1.5	13
120	Development of rare-earth oxide reinforced magnesium nanocomposites for orthopaedic applications: A mechanical/immersion/biocompatibility perspective. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 114, 104162	4.1	13
119	Effect of defects on electromagnetic interference shielding effectiveness of magnesium. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 9728-9739	2.1	12
118	Microstructure and Mechanical Properties of Mg-5Nb Metal-Metal Composite Reinforced with Nano SiC Ceramic Particles. <i>Metals</i> , <b>2012</b> , 2, 178-194	2.3	12
117	Reinforcing Low-Volume Fraction Nano-TiN Particulates to Monolithical, Pure Mg for Enhanced Tensile and Compressive Response. <i>Materials</i> , <b>2016</b> , 9,	3.5	12
116	Nano-ZnO Particles Effect in Improving the Mechanical Response of Mg-3Al-0.4Ce Alloy. <i>Metals</i> , <b>2016</b> , 6, 276	2.3	12
115	Effects of TiO <sub>2</sub> powder morphology on the mechanical response of pure magnesium: 1D nanofibers versus 0D nanoparticulates. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 664, 45-58	5.7	11
114	Hybridizing micro-Ti with nano-B <sub>4</sub> C particulates to improve the microstructural and mechanical characteristics of Mg/Ti composite. <i>Journal of Magnesium and Alloys</i> , <b>2014</b> , 2, 13-19	8.8	11
113	Fatigue crack growth behavior of amorphous particulate reinforced composites. <i>Composite Structures</i> , <b>2016</b> , 153, 782-790	5.3	11
112	Magnesium nanocomposites: An overview on time-dependent plastic (creep) deformation. <i>Defence Technology</i> , <b>2019</b> , 15, 123-131	3	10
111	Synthesis and recyclability of a magnesium based composite using an innovative disintegrated melt deposition technique. <i>Materials Science and Technology</i> , <b>2002</b> , 18, 92-98	1.5	10
110	Effect of dilution on micro hardness of Ni/TiB <sub>2</sub> Si alloy hardfaced on austenitic stainless steel plate for sodium-cooled fast reactor applications. <i>Nuclear Engineering and Technology</i> , <b>2020</b> , 52, 589-596	2.6	10

109	Role of Microstructure and Texture on Compressive Strength Improvement of Mg/(Y <sub>2</sub> O <sub>3</sub> + Cu) Hybrid Nanocomposites. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 3033-3050	2.7	9
108	Improving Mechanical, Thermal and Damping Properties of NiTi (Nitinol) Reinforced Aluminum Nanocomposites. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 19	3	9
107	Fe <sub>3</sub> O <sub>4</sub> Nanoparticle-Reinforced Magnesium Nanocomposites Processed via Disintegrated Melt Deposition and Turning-Induced Deformation Techniques. <i>Metals</i> , <b>2019</b> , 9, 1225	2.3	9
106	Cumulative Effect of Strength Enhancer Lanthanum and Ductility Enhancer Cerium on Mechanical Response of Magnesium. <i>Metals</i> , <b>2017</b> , 7, 241	2.3	8
105	Stretching the engineering strain of high strength LPSO quaternary Mg-Y-Zn-Al alloy via integration of nano-Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4160-4168	4.3	8
104	Towards additive manufacturing of magnesium alloys through integration of binderless 3D printing and rapid microwave sintering. <i>Additive Manufacturing</i> , <b>2019</b> , 29, 100790	6.1	8
103	An investigation into the effect of ball milling of reinforcement on the enhanced mechanical response of magnesium. <i>Journal of Composite Materials</i> , <b>2011</b> , 45, 2483-2493	2.7	8
102	Investigations on different hardfacing processes for High temperature applications of Ni-Cr-B-Si alloy hardfaced on austenitic stainless steel components. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10062-10072	5.5	8
101	Micromechanics and indentation creep of magnesium carbon nanotube nanocomposites: 298K-73K. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 801, 140418	5.3	8
100	A Novel Turning-Induced-Deformation Based Technique to Process Magnesium Alloys. <i>Metals</i> , <b>2019</b> , 9, 841	2.3	7
99	Using heat treatment effects and EBSD analysis to tailor microstructure of hybrid Mg nanocomposite for enhanced overall mechanical response. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 1309-1320	1.5	7
98	Microstructural and mechanical properties of AZ31 magnesium alloy with Cr addition and CO <sub>2</sub> incorporation during processing. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 134, 721-727	4.4	7
97	Differentiating the mechanical response of hierarchical magnesium nano-composites as a function of temperature. <i>Materials &amp; Design</i> , <b>2012</b> , 42, 102-110		7
96	Effect of strain rate and ball milling of reinforcement on the compressive response of magnesium composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 1920-1929	8.4	7
95	Enhancing significantly the damping response of Mg using hollow glass microspheres while simultaneously reducing weight. <i>Advanced Materials Letters</i> , <b>2017</b> , 8, 1171-1177	2.4	7
94	Hot deformation behavior and processing maps of hybrid SiC and CNTs reinforced AZ61 alloy composite. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159098	5.7	7
93	Processing, Properties and Potential Applications of Magnesium Alloy-Based Nanocomposites: A Review. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 3-18	0.3	7
92	Investigations of Wear Response of Pure Mg and Mg-0.4 Ce-Y <sub>2</sub> O <sub>3</sub> /ZnO Nanocomposites Using a Single and Repeated Scratch Tests. <i>Tribology Transactions</i> , <b>2018</b> , 61, 951-959	1.8	6

91	Microstructure and damping characteristics of Mg and its composites containing metastable Al85Ti15 particle. <i>Journal of Composite Materials</i> , <b>2016</b> , 50, 2565-2573	2.7	6
90	Metallic Glasses as Potential Reinforcements in Al and Mg Matrices: A Review. <i>Technologies</i> , <b>2018</b> , 6, 40	2.4	6
89	Ex Situ Production Routes for Metal Matrix Nanocomposites. <i>Engineering Materials</i> , <b>2017</b> , 19-40	0.4	6
88	Light Metal Matrix Composites. <i>SpringerBriefs in Materials</i> , <b>2015</b> , 7-58	0.5	6
87	Enhancing hardness, CTE and compressive response of powder metallurgy magnesium reinforced with metastable Al90Y10 powder particles. <i>Powder Metallurgy</i> , <b>2016</b> , 59, 209-215	1.9	6
86	Enhanced mechanical properties and near unity yield asymmetry in equiatomic high entropy alloy particles reinforced magnesium composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 810, 151909	5.7	5
85	Improved Compressive, Damping and Coefficient of Thermal Expansion Response of Mg $\beta$ Al $\alpha$ .5La Alloy Using Y $2$ O $3$ Nano Reinforcement. <i>Metals</i> , <b>2017</b> , 7, 104	2.3	5
84	Effect of Addition of Nano-Al $2$ O $3$ and Copper Particulates and Heat Treatment on the Tensile Response of AZ61 Magnesium Alloy. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2013</b> , 135,	1.8	5
83	Light Weight High Entropy Alloys: Processing Challenges and Properties. <i>Recent Patents on Materials Science</i> , <b>2018</b> , 10, 116-121	0.3	5
82	A New Method to Lightweight Magnesium Using Syntactic Composite Core. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4773	2.6	5
81	Development of Lightweight Magnesium/Glass Micro Balloon Syntactic Foams Using Microwave Approach with Superior Thermal and Mechanical Properties. <i>Metals</i> , <b>2021</b> , 11, 827	2.3	5
80	Optimization of tribological behavior of magnesium metal-metal composite using pattern search and simulated annealing techniques. <i>Materials Today: Proceedings</i> , <b>2020</b> , 21, 492-496	1.4	5
79	Fracture of magnesium matrix nanocomposites - A review. <i>International Journal of Lightweight Materials and Manufacture</i> , <b>2021</b> , 4, 67-98	2.2	5
78	Revealing modification mechanism of Mg $2$ Si in Sb modified Mg $2$ Si/ AZ91 composites and its effect on mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156877	5.7	5
77	Influence of turning speed on the microstructure and properties of magnesium ZK60 alloy pre-processed via turning-induced-deformation. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 831, 154840	5.7	4
76	Microstructure and Mechanical Behavior of Hot Extruded Aluminum/Tin-Bismuth Composites Produced by Powder Metallurgy. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2812	2.6	4
75	Improving significantly the failure strain and work hardening response of LPSO-strengthened Mg-Y-Zn-Al alloy via hot extrusion speed control. <i>Metals and Materials International</i> , <b>2017</b> , 23, 699-707	2.4	4
74	Effect of Inconel625 particles on the microstructural, mechanical, and thermal properties of Al-Inconel625 composites. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101564	2.5	4

73	Magnesium nanocomposite: increasing copperisation effect on high temperature tensile properties. <i>Powder Metallurgy</i> , <b>2016</b> , 59, 66-72	1.9	4
72	Rapid densification of additive manufactured magnesium alloys via microwave sintering. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101655	6.1	4
71	Using CaO Nanoparticles to Improve Mechanical and Ignition Response of Magnesium. <i>Current Nanomaterials</i> , <b>2018</b> , 3, 44-51	1.3	4
70	Designing highly ductile magnesium alloys: current status and future challenges. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1-88	10.1	4
69	Magnesium Based Nanocomposites for Cleaner Transport <b>2017</b> , 809-830		3
68	Introducing a High Performance Mg-Based Multicomponent Alloy as an Alternative to Al-Alloys. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	3
67	An Engineered Magnesium Alloy Nanocomposite: Mechanisms Governing Microstructural Development and Mechanical Properties. <i>Minerals, Metals and Materials Series</i> , <b>2018</b> , 193-202	0.3	3
66	DLC coating of magnesium nanocomposites using RF sputtering. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 6737-6742	1.4	3
65	Effect of Mg/nano-Al <sub>2</sub> O <sub>3</sub> interaction time during stirring on microstructure and mechanical properties of Mg/Al <sub>2</sub> O <sub>3</sub> composite. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 1341-1346	1.5	3
64	Enhancing Properties of Aerospace Alloy Elektron 21 Using Boron Carbide Nanoparticles as Reinforcement. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5470	2.6	3
63	Depth sensing indentation of magnesium/boron nitride nanocomposites. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 1751-1763	2.7	3
62	Mechanical Properties of Sustainable Metal Matrix Composites: A Review on the Role of Green Reinforcements and Processing Methods. <i>Technologies</i> , <b>2022</b> , 10, 32	2.4	3
61	Light Metal Matrix Composites with Amorphous Alloys/Bulk Metallic Glass Reinforcements (BMG). <i>SpringerBriefs in Materials</i> , <b>2015</b> , 85-106	0.5	2
60	An Introduction to Lightweight, Energy Saving, Environment Friendly Magnesium Based Nanocomposites: Materials of Upcoming Generation. <i>Advanced Materials Research</i> , <b>2015</b> , 1125, 3-7	0.5	2
59	EMI shielding of metals, alloys, and composites <b>2020</b> , 341-355		2
58	Effect of cooling rate on microstructures and mechanical property of Al 1230 alloy in a sand casting process. <i>Materials Today: Proceedings</i> , <b>2020</b> , 26, 1771-1775	1.4	2
57	Synthesis and analysis of Mg <sub>3</sub> Al alloy nanocomposites reinforced by RGO. <i>Materials and Manufacturing Processes</i> , <b>2020</b> , 35, 1650-1660	4.1	2
56	Magnesium Reinforced with Inconel 718 Particles Prepared Ex Situ-Microstructure and Properties. <i>Materials</i> , <b>2020</b> , 13,	3.5	2

55	Development of rare-earth oxide reinforced magnesium nanocomposites targeting biomedical applications. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 5414-5418	1.4	2
54	Ambient and non-ambient temperature depth-sensing indentation of Mg-Sm <sub>2</sub> O <sub>3</sub> nanocomposites. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 105, 2947-2956	3.2	2
53	Mechanical Behavior of Al and Mg Based Nanocomposites. <i>Engineering Materials</i> , <b>2017</b> , 95-137	0.4	2
52	Global Emergence and Significance of Magnesium/Technology. <i>Material Science Research India</i> , <b>2018</b> , 15, 107-113	1	2
51	Investigation on the combined effect of ZnO nanorods and Y <sub>2</sub> O <sub>3</sub> nanoparticles on the microstructural and mechanical response of aluminium. <i>Advanced Composite Materials</i> , 1-22	2.8	2
50	Effects of Ti and TiB <sub>2</sub> Nanoparticulates on Room Temperature Mechanical Properties and In Vitro Degradation of Pure Mg <b>2015</b> , 413-418		2
49	Synthesis of Magnesium-Based Biomaterials. <i>SpringerBriefs in Materials</i> , <b>2015</b> , 17-34	0.5	2
48	Biocompatibility of Metal Matrix Composites Used for Biomedical Applications <b>2021</b> , 474-501		2
47	Using low-temperature sinterless powder method to develop exceptionally high amount of zinc containing Mg <sub>70</sub> Zn <sub>10</sub> Ca alloy and Mg <sub>70</sub> Zn <sub>10</sub> Ca/SiO <sub>2</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 156957	5.7	2
46	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 16280-16285	1.4	2
45	Tribological characteristics of magnesium nanocomposites. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 16575-16579		2
44	Utilizing Iron as Reinforcement to Enhance Ambient Mechanical Response and Impression Creep Response of Magnesium. <i>Metals</i> , <b>2021</b> , 11, 1448	2.3	2
43	Synthesis of Magnesium Based Nano-composites <b>2020</b> ,		1
42	Microstructure And Mechanical Properties New Magnesium- Zinc-Gadolinium Alloys <b>2016</b> , 159-163		1
41	Microstructure and Mechanical Properties of a Magnesium-Aluminium-Erbium Alloy <b>2015</b> , 445-449		1
40	Microstructure and mechanical properties of Mg-Al alloys with in situ Al <sub>4</sub> C <sub>3</sub> phase synthesised by CO <sub>2</sub> incorporation during liquid state processing. <i>International Journal of Microstructure and Materials Properties</i> , <b>2013</b> , 8, 283	0.4	1
39	Microwave Heating of Metal-Based Materials <b>2011</b> , 65-157		1
38	Mechanical Characterization of Graphene Nanoplatelets-Reinforced Mg-3Sn Alloy Synthesized by Powder Metallurgy. <i>Metals</i> , <b>2021</b> , 11, 62	2.3	1

37	Bioresorbable Nano-Hydroxyapatite Reinforced Magnesium Alloplastic Bone Substitute for Biomedical Applications: A Study. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 71-82	0.3	1
36	Magnesium-Bismarium oxide nanocomposites: Room-temperature depth-sensing nanoindentation response. <i>International Journal of Lightweight Materials and Manufacture</i> , <b>2020</b> , 3, 217-225	2.2	1
35	The Mechanical and Thermal Response of Shape Memory Alloy-Reinforced Aluminum Nanocomposites. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 51-62	0.3	1
34	Influence of micro Ti particles on resistance to cavitation erosion of Mg-xTi composites. <i>Mechanics of Materials</i> , <b>2021</b> , 154, 103705	3.3	1
33	Development and Properties of Amorphous Particles Reinforced Al Matrix Nanocomposites <b>2021</b> , 96-108		1
32	Eco-Friendly Metal Matrix Composites <b>2021</b> , 140-159		1
31	An Insight Into Magnesium Based Metal Matrix Composites With Hybrid Reinforcement <b>2021</b> , 52-77		1
30	Microstructure and Corrosion Behavior of Extruded Mg-Sn-Y Alloys. <i>Metals</i> , <b>2021</b> , 11, 1095	2.3	1
29	The Promise of Turning Induced Deformation Process for Synthesizing Magnesium Based Materials with Superior Mechanical Response. <i>Technologies</i> , <b>2021</b> , 9, 69	2.4	1
28	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements <b>2022</b> , 26-45		1
27	An Investigation into the Effect of Length Scale (Nano to Micron) of Cerium Oxide Particles on the Mechanical and Flammability Response of Magnesium. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	1
26	Machinability Investigation in Micro-milling of Mg Based MMCs with Nano-Sized Particles. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 61-69	0.3	0
25	Selection of Alloying Elements and Reinforcements Based on Toxicity and Mechanical Properties. <i>SpringerBriefs in Materials</i> , <b>2015</b> , 35-67	0.5	0
24	The Potential of Magnesium-Based Materials for Engineering and Biomedical Applications. <i>Journal of the Indian Institute of Science</i> ,1	2.4	0
23	Development from Alloys to Nanocomposite for an Enhanced Mechanical and Ignition Response in Magnesium. <i>Metals</i> , <b>2021</b> , 11, 1792	2.3	0
22	Corrosion Behavior, Microstructure and Mechanical Properties of Novel Mg-Zn-Ca-Er Alloy for Bio-Medical Applications. <i>Metals</i> , <b>2021</b> , 11, 519	2.3	0
21	In vitro degradation, haemolysis and cytotoxicity study of [Mg-0.4Ce/ZnO nanocomposites. <i>IET Nanobiotechnology</i> , <b>2021</b> , 15, 157-163	2	0
20	The Promise of Sustainable Magnesium Composite Technology for Greener Future. <i>Materials Science Forum</i> , <b>2018</b> , 928, 56-61	0.4	

19	Casting Routes for the Production of Al and Mg Based Nanocomposites. <i>Engineering Materials</i> , <b>2017</b> , 41-93	0.4
18	Synthesis and Characterization of Novel Magnesium Materials Containing Copper-Titanium Based (Cu50Ti50) Amorphous Alloy Particles <b>2015</b> , 387-390	
17	Effects of Ti and TiB <sub>2</sub> Nanoparticulates on Room Temperature Mechanical Properties and in Vitro Degradation of Pure Mg <b>2015</b> , 413-418	
16	Synthesis and Characterization of Novel Magnesium Materials Containing Copper-Titanium Based (Cu50Ti50) Amorphous Alloy Particles <b>2015</b> , 387-390	
15	Validating the potential of centralized holes to enhance the compressive response of Mg-, Al-, Fe-Based commercial alloys. <i>MRS Communications</i> ,1	2.7
14	Role of Rare Earth Oxide Reinforcements in Enhancing the Mechanical, Damping and Ignition Resistance of Magnesium. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 115-124	0.3
13	Investigating and Understanding the Mechanical and Tribological Properties of a Magnesium Hybrid Metal/Ceramic Nanocomposite. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 85-94	0.3
12	Using Energy Efficient Microwaves to Synthesize High Performance Energy Saving Magnesium (Nano) Composites <b>2015</b> , 187-193	
11	Microstructure and Mechanical Properties New Magnesium-Zinc-Gadolinium Alloys <b>2016</b> , 159-163	
10	ANALYSIS OF WEAR BEHAVIOR OF A NOVEL MAGNESIUM METAL/METAL COMPOSITE. <i>Surface Review and Letters</i> , <b>2020</b> , 27, 1950228	1.1
9	On the Role of Processing on Microstructural Development and Mechanical Response of Magnesium-Based Nanocomposites. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 37-49	0.3
8	Tensile Response of Al-Based Nanocomposites <b>2021</b> , 313-324	
7	Metal Matrix Composites. <i>Engineering Materials</i> , <b>2021</b> , 129-158	0.4
6	Tensile Characteristics of Metal Matrix Composites <b>2021</b> , 298-312	
5	Two Phase Processing of Metal Matrix Composites <b>2021</b> , 197-208	
4	Fatigue Behavior of Magnesium Matrix Composites <b>2021</b> , 344-359	
3	Metal Based Composites With Metastable/Amorphous Reinforcements <b>2021</b> , 78-95	
2	Damping Characteristics of Metal Matrix Composites <b>2021</b> , 415-427	



- 1 Machining of Y<sub>2</sub>O<sub>3</sub> reinforced magnesium rare earth alloys using wire electrical discharge turning process. *Machining Science and Technology*,1-23 2