

Sankaranarayanan Seetharaman

List of Publications by Year in descending order

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269
papers

11,144
citations

28190

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all docs

279
docs citations

279
times ranked

4284
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and deformation behaviour of Mg-Y2O3 nanocomposites. <i>Acta Materialia</i> , 2007, 55, 5115-5121.	3.8	391
2	Magnesium-based nanocomposites: Lightweight materials of the future. <i>Materials Characterization</i> , 2015, 105, 30-46.	1.9	313
3	Development of high performance magnesium nano-composites using nano-Al2O3 as reinforcement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 392, 163-168.	2.6	282
4	Development of novel carbon nanotube reinforced magnesium nanocomposites using the powder metallurgy technique. <i>Nanotechnology</i> , 2006, 17, 7-12.	1.3	261
5	Enhancing overall mechanical performance of metallic materials using two-directional microwave assisted rapid sintering. <i>Scripta Materialia</i> , 2005, 52, 479-483.	2.6	236
6	Simultaneous enhancement in strength and ductility by reinforcing magnesium with carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 423, 153-156.	2.6	219
7	Development of ductile magnesium composite materials using titanium as reinforcement. <i>Journal of Alloys and Compounds</i> , 2002, 345, 246-251.	2.8	201
8	Ductility improvement and fatigue studies in Mg-CNT nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 1432-1439.	3.8	196
9	Development of Mg/Cu nanocomposites using microwave assisted rapid sintering. <i>Composites Science and Technology</i> , 2007, 67, 1541-1552.	3.8	184
10	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 2155-2165.	1.7	182
11	Improving mechanical properties of magnesium using nano-yttria reinforcement and microwave assisted powder metallurgy method. <i>Composites Science and Technology</i> , 2007, 67, 2657-2664.	3.8	176
12	Mechanical Properties of Magnesium-Rare Earth Alloy Systems: A Review. <i>Metals</i> , 2015, 5, 1-39.	1.0	164
13	Effect of particulate size of Al2O3 reinforcement on microstructure and mechanical behavior of solidification processed elemental Mg. <i>Journal of Alloys and Compounds</i> , 2006, 419, 84-90.	2.8	150
14	Increasing significantly the failure strain and work of fracture of solidification processed AZ31B using nano-Al2O3 particulates. <i>Journal of Alloys and Compounds</i> , 2008, 459, 244-250.	2.8	150
15	Mg-based composite reinforced by Mg2Si. <i>Composites Science and Technology</i> , 2003, 63, 627-632.	3.8	146
16	Enhancing compressive response of AZ31B magnesium alloy using alumina nanoparticulates. <i>Composites Science and Technology</i> , 2008, 68, 2185-2192.	3.8	139
17	Enhancing physical and mechanical properties of Mg using nanosized Al2O3 particulates as reinforcement. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 2253-2258.	1.1	126
18	Enhancing strength and ductility of magnesium by integrating it with aluminum nanoparticles. <i>Acta Materialia</i> , 2007, 55, 6338-6344.	3.8	126

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19	Effect of different types of nano-size oxide particulates on microstructural and mechanical properties of elemental Mg. <i>Journal of Materials Science</i> , 2006, 41, 2229-2236.	1.7	122
20	Hierarchical magnesium nano-composites for enhanced mechanical response. <i>Acta Materialia</i> , 2010, 58, 6104-6114.	3.8	114
21	An Insight into Evolution of Light Weight High Entropy Alloys: A Review. <i>Metals</i> , 2016, 6, 199.	1.0	114
22	Dry sliding wear behaviour of zinc oxide reinforced magnesium matrix nano-composites. <i>Materials & Design</i> , 2014, 58, 475-481.	5.1	111
23	Slurry erosion characteristics and erosion mechanisms of stainless steel. <i>Tribology International</i> , 2014, 79, 1-7.	3.0	105
24	Effect of reinforcement concentration on the properties of hot extruded Al-Al ₂ O ₃ composites synthesized through microwave sintering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 60-69.	2.6	104
25	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> , 1999, 15, 1139-1146.	0.8	103
26	Development of a novel magnesium/nickel composite with improved mechanical properties. <i>Journal of Alloys and Compounds</i> , 2002, 335, L10-L15.	2.8	103
27	Progress in research on hybrid metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155274.	2.8	103
28	Development of a novel magnesium-copper based composite with improved mechanical properties. <i>Materials Research Bulletin</i> , 2002, 37, 377-389.	2.7	101
29	An insight into ignition factors and mechanisms of magnesium based materials: A review. <i>Materials and Design</i> , 2017, 113, 84-98.	3.3	101
30	Interface tailoring to enhance mechanical properties of carbon nanotube reinforced magnesium composites. <i>Materials & Design</i> , 2014, 60, 490-495.	5.1	97
31	Development of high strength magnesium copper based hybrid composites with enhanced tensile properties. <i>Materials Science and Technology</i> , 2003, 19, 253-259.	0.8	88
32	Enhancing overall tensile and compressive response of pure Mg using nano-TiB ₂ particulates. <i>Materials Characterization</i> , 2014, 94, 178-188.	1.9	82
33	Development of high performance Mg-TiO ₂ nanocomposites targeting for biomedical/structural applications. <i>Materials & Design</i> , 2015, 65, 104-114.	5.1	82
34	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 2467-2474.	1.7	80
35	Effect of impact angle and testing time on erosion of stainless steel at higher velocities. <i>Wear</i> , 2014, 321, 87-93.	1.5	80
36	Effect of type of primary processing on the microstructure, CTE and mechanical properties of magnesium/alumina nanocomposites. <i>Composite Structures</i> , 2006, 72, 19-26.	3.1	75

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37	Enhancing compressive response of AZ31B using nano-Al ₂ O ₃ and copper additions. Journal of Alloys and Compounds, 2010, 490, 382-387.	2.8	73
38	Simultaneously Improving Strength and Ductility of Magnesium using Nano-size SiC Particulates and Microwaves. Advanced Engineering Materials, 2006, 8, 735-740.	1.6	71
39	The mechanical behavior of magnesium alloy AZ91 reinforced with fine copper particulates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 369, 302-308.	2.6	69
40	Enhancing strength and ductility of Mg/SiC composites using recrystallization heat treatment. Composite Structures, 2006, 72, 266-272.	3.1	68
41	Investigation into tensile and compressive responses of Mg-ZnO composites. Materials Science and Technology, 2012, 28, 582-588.	0.8	68
42	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. Journal of Alloys and Compounds, 2018, 762, 398-408.	2.8	68
43	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticles. International Journal of Materials Research, 2016, 107, 1091-1099.	0.1	67
44	High-temperature tensile properties of Mg/Al ₂ O ₃ nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 56-62.	2.6	66
45	Structural and mechanical properties of Ni ₆₀ Nb ₄₀ amorphous alloy particle reinforced Al-based composites produced by microwave-assisted rapid sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 581, 119-127.	2.6	66
46	Nano-ZnO particle addition to monolithic magnesium for enhanced tensile and compressive response. Journal of Alloys and Compounds, 2014, 615, 211-219.	2.8	66
47	Synthesis and mechanical behavior of carbon nanotube-magnesium composites hybridized with nanoparticles of alumina. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 466, 32-37.	2.6	65
48	Development of high performance Mg-Al ₂ O ₃ composites containing Al ₂ O ₃ in submicron length scale using microwave assisted rapid sintering. Materials Science and Technology, 2005, 21, 1063-1070.	0.8	64
49	Simultaneous Enhancement of Tensile/Compressive Strength and Ductility of Magnesium Alloy AZ31 Using Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 956-964.	0.9	62
50	Nano-AlN particle reinforced Mg composites: Microstructural and mechanical properties. Materials Science and Technology, 2015, 31, 1122-1131.	0.8	62
51	Additive manufacturing of magnesium-zinc-zirconium (ZK) alloys via capillary-mediated binderless three-dimensional printing. Materials and Design, 2019, 169, 107683.	3.3	62
52	Synthesis and characterization of high performance low volume fraction TiC reinforced Mg nanocomposites targeting biocompatible/structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 306-315.	2.6	61
53	Aluminum and Magnesium Metal Matrix Nanocomposites. Engineering Materials, 2017, , .	0.3	61
54	Enhancing thermal and mechanical response of aluminum using nanolength scale TiC ceramic reinforcement. Ceramics International, 2018, 44, 9247-9254.	2.3	61

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55	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> , 2019, 164, 485-492.	5.9	60
56	Investigation on dry sliding wear behavior of Mg/BN nanocomposites. <i>Journal of Magnesium and Alloys</i> , 2018, 6, 263-276.	5.5	59
57	Improving Overall Mechanical Performance of Magnesium Using Nano-Alumina Reinforcement and Energy Efficient Microwave Assisted Processing Route. <i>Advanced Engineering Materials</i> , 2007, 9, 902-909.	1.6	57
58	Effect of ball milling the hybrid reinforcements on the microstructure and mechanical properties of Mg-(Ti +n-Al ₂ O ₃) composites. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7229-7237.	2.8	57
59	Synthesis and Characterization of Nano Boron Nitride Reinforced Magnesium Composites Produced by the Microwave Sintering Method. <i>Materials</i> , 2013, 6, 1940-1955.	1.3	57
60	Development of novel Mg-Ni ₆₀ Nb ₄₀ amorphous particle reinforced composites with enhanced hardness and compressive response. <i>Materials & Design</i> , 2014, 53, 849-855.	5.1	56
61	Effect of length scale of Al ₂ O ₃ particulates on microstructural and tensile properties of elemental Mg. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 425, 22-27.	2.6	55
62	Microstructure and Mechanical Characteristics of AZ31B/Al ₂ O ₃ Nanocomposite with Addition of Ca. <i>Journal of Composite Materials</i> , 2009, 43, 5-17.	1.2	55
63	Effect of nanoscale boron carbide particle addition on the microstructural evolution and mechanical response of pure magnesium. <i>Materials & Design</i> , 2014, 56, 428-436.	5.1	55
64	Low volume fraction nano-titanium particulates for improving the mechanical response of pure magnesium. <i>Journal of Alloys and Compounds</i> , 2014, 593, 176-183.	2.8	55
65	Development of hybrid Mg/Al ₂ O ₃ composites with improved properties using microwave assisted rapid sintering route. <i>Journal of Materials Science</i> , 2005, 40, 3395-3402.	1.7	54
66	Effect of Ag and Cu trace additions on the microstructural evolution and mechanical properties of Mg-5Sn alloy. <i>Journal of Alloys and Compounds</i> , 2013, 565, 56-65.	2.8	54
67	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm ₂ O ₃ Nanoparticles. <i>Metals</i> , 2017, 7, 357.	1.0	52
68	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> , 2020, 182, 107650.	5.9	52
69	Reinforcements at nanometer length scale and the electrical resistivity of lead-free solders. <i>Journal of Alloys and Compounds</i> , 2009, 478, 458-461.	2.8	51
70	Development of magnesium/(yttria+nickel) hybrid nanocomposites using hybrid microwave sintering: Microstructure and tensile properties. <i>Journal of Alloys and Compounds</i> , 2009, 487, 76-82.	2.8	51
71	Improved properties of Al-Si ₃ N ₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , 2017, 7, 34401-34410.	1.7	51
72	Development of lead-free Sn-3.5Ag/SnO ₂ nanocomposite solders. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 571-576.	1.1	49

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73	Carbon nanotube addition to concentrated magnesium alloy AZ81: Enhanced ductility with occasional significant increase in strength. <i>Materials & Design</i> , 2013, 45, 15-23.	5.1	49
74	An investigation into interaction between magnesium powder and Ar gas: Implications for selective laser melting of magnesium. <i>Powder Technology</i> , 2018, 333, 252-261.	2.1	49
75	Development of high performance magnesium composites using Ni50Ti50 metallic glass reinforcement and microwave sintering approach. <i>Journal of Alloys and Compounds</i> , 2015, 627, 192-199.	2.8	48
76	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 5553-5561.	1.7	47
77	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3612-3620.	2.8	47
78	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. <i>Materials</i> , 2017, 10, 997.	1.3	47
79	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. <i>Ceramics International</i> , 2018, 44, 15035-15043.	2.3	47
80	A paradigm shift towards compositionally zero-sum binderless 3D printing of magnesium alloys via capillary-mediated bridging. <i>Acta Materialia</i> , 2019, 165, 294-306.	3.8	47
81	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> , 2009, 40, 1490-1500.	3.8	46
82	Effect of submicron size Al ₂ O ₃ particulates on microstructural and tensile properties of elemental Mg. <i>Journal of Alloys and Compounds</i> , 2008, 457, 244-250.	2.8	45
83	Microstructural evolution and mechanical properties of Mg composites containing nano-B ₄ C hybridized micro-Ti particulates. <i>Materials Chemistry and Physics</i> , 2014, 143, 1178-1190.	2.0	45
84	Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary Mg-Al alloys. <i>Journal of Alloys and Compounds</i> , 2015, 648, 759-770.	2.8	45
85	Processing-microstructure-mechanical properties of an Al-Cu/SiC metal matrix composite synthesized using disintegrated melt deposition technique. <i>Materials Research Bulletin</i> , 1995, 30, 1525-1534.	2.7	43
86	Enhancing damping of pure magnesium using nano-size alumina particulates. <i>Materials Letters</i> , 2005, 59, 3851-3855.	1.3	43
87	Enhancing Thermal Stability, Modulus and Ductility of Magnesium using Molybdenum as Reinforcement. <i>Advanced Engineering Materials</i> , 2005, 7, 250-256.	1.6	43
88	Effect of addition of mutually soluble and insoluble metallic elements on the microstructure, tensile and compressive properties of pure magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 149-160.	2.6	42
89	Enhancing overall static/dynamic/damping/ignition response of magnesium through the addition of lower amounts (<2%) of yttrium. <i>Journal of Alloys and Compounds</i> , 2016, 689, 350-358.	2.8	42
90	On the role of nano-alumina particulate reinforcements in enhancing the oxidation resistance of magnesium alloy AZ31B. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 500, 233-237.	2.6	41

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91	Effect of individual and combined addition of micro/nano-sized metallic elements on the microstructure and mechanical properties of pure Mg. <i>Materials & Design</i> , 2012, 37, 274-284.	5.1	41
92	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. <i>Metals</i> , 2016, 6, 143.	1.0	41
93	Enhancing Mechanical Response of Monolithic Magnesium Using Nano-NiTi (Nitinol) Particles. <i>Metals</i> , 2018, 8, 1014.	1.0	39
94	Effect of heating rate during hybrid microwave sintering on the tensile properties of magnesium and Mg/Y2O3 nanocomposite. <i>Journal of Alloys and Compounds</i> , 2008, 466, 140-145.	2.8	38
95	Insight into cytotoxicity of Mg nanocomposites using MTT assay technique. <i>Materials Science and Engineering C</i> , 2017, 78, 647-652.	3.8	38
96	Using Microwave Energy to Synthesize Light Weight/Energy Saving Magnesium Based Materials: A Review. <i>Technologies</i> , 2015, 3, 1-18.	3.0	37
97	Development of high-performance quaternary LPSO Mg-Al-Zn alloys by Disintegrated Melt Deposition technique. <i>Materials and Design</i> , 2015, 83, 443-450.	3.3	36
98	Achieving ultra-high strength and good ductility in AZ61 alloy composites containing hybrid micron SiC and carbon nanotubes reinforcements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138447.	2.6	36
99	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> , 1999, 8, 473-478.	1.2	35
100	Synthesis and properties of light weight magnesium cenosphere composite. <i>Materials Science and Technology</i> , 2016, 32, 923-929.	0.8	35
101	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticles. <i>Journal of Materials Research</i> , 2017, 32, 2169-2178.	1.2	35
102	Significantly enhancing the strength+ ductility combination of Mg-9Al alloy using multi-walled carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2019, 790, 974-982.	2.8	35
103	Tensile and Compressive Responses of Ceramic and Metallic Nanoparticle Reinforced Mg Composites. <i>Materials</i> , 2013, 6, 1826-1839.	1.3	34
104	Magnesium-iron micro-composite for enhanced shielding of electromagnetic pollution. <i>Composites Part B: Engineering</i> , 2019, 163, 150-157.	5.9	33
105	Designing highly ductile magnesium alloys: current status and future challenges. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 194-281.	6.8	33
106	Metallic Amorphous Alloy Reinforcements in Light Metal Matrices. <i>SpringerBriefs in Materials</i> , 2015, , .	0.1	32
107	Utilizing Low-Cost Eggshell Particles to Enhance the Mechanical Response of Mg-2.5Zn Magnesium Alloy Matrix. <i>Advanced Engineering Materials</i> , 2018, 20, 1700919.	1.6	32
108	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> , 2021, 114, 104162.	1.5	32

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109	Effect of extrusion ratio on microstructure and mechanical properties of microwave-sintered magnesium and Mg/Y ₂ O ₃ nanocomposite. <i>Journal of Materials Science</i> , 2008, 43, 4503-4511.	1.7	31
110	Effect of hybridizing micron-sized Ti with nano-sized SiC on the microstructural evolution and mechanical response of Mg-5.6Ti composite. <i>Journal of Alloys and Compounds</i> , 2013, 575, 207-217.	2.8	31
111	Tailoring the tensile/compressive response of magnesium alloy ZK60A using Al ₂ O ₃ nanoparticles. <i>Journal of Materials Science</i> , 2010, 45, 1170-1178.	1.7	30
112	A strong and deformable in-situ magnesium nanocomposite igniting above 1000°C. <i>Scientific Reports</i> , 2018, 8, 7038.	1.6	30
113	Effect of dilution on micro hardness of Ni-Cr-Si alloy hardfaced on austenitic stainless steel plate for sodium-cooled fast reactor applications. <i>Nuclear Engineering and Technology</i> , 2020, 52, 589-596.	1.1	30
114	Mg/BN nanocomposites: Nano-BN addition for enhanced room temperature tensile and compressive response. <i>Journal of Composite Materials</i> , 2015, 49, 3045-3055.	1.2	29
115	Investigating influence of hybrid (yttria + copper) nanoparticulate reinforcements on microstructural development and tensile response of magnesium. <i>Materials Science and Technology</i> , 2010, 26, 87-94.	0.8	28
116	Effect of sintering techniques on the microstructure and tensile properties of nano-yttria particulates reinforced magnesium nanocomposites. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4341-4347.	2.8	28
117	Effect of niobium particulate addition on the microstructure and mechanical properties of pure magnesium. <i>Journal of Alloys and Compounds</i> , 2012, 513, 202-207.	2.8	28
118	Powder metallurgy hollow fly ash cenospheres™ particles reinforced magnesium composites. <i>Powder Metallurgy</i> , 2016, 59, 188-196.	0.9	28
119	Enhanced (X-band) microwave shielding properties of pure magnesium by addition of diamagnetic titanium micro-particulates. <i>Journal of Alloys and Compounds</i> , 2019, 770, 473-482.	2.8	28
120	Influence of nano-alumina and sub-micron copper on mechanical properties of magnesium alloy AZ31. <i>Composites Part B: Engineering</i> , 2013, 55, 486-491.	5.9	26
121	Introducing Mg-4Zn-3Gd-1Ca/ZnO nanocomposite with compressive strengths matching/exceeding that of mild steel. <i>Scientific Reports</i> , 2016, 6, 32395.	1.6	26
122	Enhancing the Properties of Magnesium using SiC Particulates in Sub-micron Length Scale. <i>Advanced Engineering Materials</i> , 2004, 6, 957-964.	1.6	25
123	Enhancing tensile and compressive strengths of magnesium using nanosize (Al ₂ O ₃ +Cu) hybrid reinforcements. <i>Journal of Composite Materials</i> , 2012, 46, 1879-1887.	1.2	25
124	Review on mechanical properties of magnesium (nano)composites developed using energy efficient microwaves. <i>Powder Metallurgy</i> , 2015, 58, 183-192.	0.9	25
125	Microwave Synthesis and Characterization of Magnesium Based Composites Containing Nanosized SiC and Hybrid (SiC+Al ₂ O ₃) Reinforcements. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2007, 129, 194-199.	0.8	24
126	Enhancing mechanical response of AZ31B using Cu+nano-Al ₂ O ₃ addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1411-1416.	2.6	24

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127	Influence of Micron-Ti and Nano-Cu Additions on the Microstructure and Mechanical Properties of Pure Magnesium. <i>Metals</i> , 2012, 2, 274-291.	1.0	24
128	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> , 2020, 9, 10062-10072.	2.6	24
129	Effects of Primary Processing Techniques and Significance of Hall-Petch Strengthening on the Mechanical Response of Magnesium Matrix Composites Containing TiO ₂ Nanoparticulates. <i>Nanomaterials</i> , 2015, 5, 1256-1283.	1.9	23
130	The dynamic compressive response of a high-strength magnesium alloy and its nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 65-72.	2.6	23
131	Processing, microstructure, and properties of Mg-SiC composites synthesised using fluxless casting process. <i>Materials Science and Technology</i> , 2001, 17, 823-832.	0.8	22
132	Enhancing modulus and ductility of Mg/SiC composite through judicious selection of extrusion temperature and heat treatment. <i>Materials Science and Technology</i> , 2003, 19, 803-808.	0.8	22
133	Processing and Properties of Aluminum and Magnesium Based Composites Containing Amorphous Reinforcement: A Review. <i>Metals</i> , 2015, 5, 743-762.	1.0	22
134	A study of the dynamic compressive response of AZ31/Al ₂ O ₃ nanocomposites and the influence of nanoparticles. <i>International Journal of Impact Engineering</i> , 2016, 89, 114-123.	2.4	22
135	Evolution of texture and asymmetry and its impact on the fatigue behaviour of an in-situ magnesium nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 727, 61-69.	2.6	22
136	Effect of presence and type of particulate reinforcement on the electrical conductivity of non-heat treatable aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 219, 133-141.	2.6	21
137	Emerging Environment Friendly, Magnesium-Based Composite Technology for Present and Future Generations. <i>Jom</i> , 2016, 68, 1890-1901.	0.9	21
138	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> , 2021, 850, 156877.	2.8	21
139	Strengthening due to the in-situ evolution of Mg-Zn rich phase in a ZnO nanoparticles introduced Mg-Y alloy. <i>Scripta Materialia</i> , 2017, 133, 29-32.	2.6	20
140	Compressive deformation behavior of Mg and Mg/(Y ₂ O ₃ +Ni) nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5550-5556.	2.6	19
141	Fatigue crack growth behavior of amorphous particulate reinforced composites. <i>Composite Structures</i> , 2016, 153, 782-790.	3.1	19
142	Influence of Cerium on the Deformation and Corrosion of Magnesium. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016, 138, .	0.8	19
143	Enhancing the Hardness and Compressive Response of Magnesium Using Complex Composition Alloy Reinforcement. <i>Metals</i> , 2018, 8, 276.	1.0	19
144	Towards additive manufacturing of magnesium alloys through integration of binderless 3D printing and rapid microwave sintering. <i>Additive Manufacturing</i> , 2019, 29, 100790.	1.7	19

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145	Superior ductility in magnesium alloy-based nanocomposites: the crucial role of texture induced by nanoparticles. <i>Journal of Materials Science</i> , 2019, 54, 8711-8718.	1.7	19
146	Hot deformation behavior and processing maps of hybrid SiC and CNTs reinforced AZ61 alloy composite. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159098.	2.8	19
147	Microstructure and mechanical properties of elemental and reinforced magnesium synthesized using a fluxless liquid-phase process. <i>Materials Research Bulletin</i> , 1999, 34, 1201-1214.	2.7	18
148	Effect of nano-Al ₂ O ₃ addition and heat treatment on the microstructure and mechanical properties of Mg-(5.6Ti+3Al) composite. <i>Materials Characterization</i> , 2013, 75, 150-164.	1.9	18
149	Effect of homogenization on enhancing the failure strain of high strength quaternary LPSO Mg-Y-Zn-Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 405-412.	2.6	18
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