

Manoj Gupta

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

796
papers

17,771
citations

66
h-index

100
g-index

865
ext. papers

20,386
ext. citations

3.3
avg, IF

7.38
L-index

#	Paper	IF	Citations
796	Properties and deformation behaviour of Mg/Y ₂ O ₃ nanocomposites. <i>Acta Materialia</i> , 2007 , 55, 5115-5128.	8.4	313
795	Wear behaviour of SiCp-reinforced magnesium matrix composites. <i>Wear</i> , 2003 , 255, 629-637	3.5	274
794	Magnesium-based nanocomposites: Lightweight materials of the future. <i>Materials Characterization</i> , 2015 , 105, 30-46	3.9	233
793	Development of novel carbon nanotube reinforced magnesium nanocomposites using the powder metallurgy technique. <i>Nanotechnology</i> , 2006 , 17, 7-12	3.4	233
792	Development of high performance magnesium nano-composites using nano-Al ₂ O ₃ as reinforcement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 163-168	5.3	232
791	Enhancing overall mechanical performance of metallic materials using two-directional microwave assisted rapid sintering. <i>Scripta Materialia</i> , 2005 , 52, 479-483	5.6	218
790	Effect of limited matrix/reinforcement interfacial reaction on enhancing the mechanical properties of aluminium/silicon carbide composites. <i>Acta Materialia</i> , 2001 , 49, 3243-3253	8.4	213
789	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	5.3	185
788	Ductility improvement and fatigue studies in Mg-CNT nanocomposites. <i>Composites Science and Technology</i> , 2008 , 68, 1432-1439	8.6	174
787	Development of ductile magnesium composite materials using titanium as reinforcement. <i>Journal of Alloys and Compounds</i> , 2002 , 345, 246-251	5.7	170
786	Synthesis, microstructure and properties characterization of disintegrated melt deposited Mg/SiC composites. <i>Journal of Materials Science</i> , 2000 , 35, 2155-2165	4.3	160
785	Wear of magnesium composites reinforced with nano-sized alumina particulates. <i>Wear</i> , 2005 , 259, 620-625	3.5	154
784	2011 ,		152
783	Development of Mg/Cu nanocomposites using microwave assisted rapid sintering. <i>Composites Science and Technology</i> , 2007 , 67, 1541-1552	8.6	152
782	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	8.6	150
781	In situ preparation of TiB ₂ reinforced Al based composites. <i>Journal of Materials Processing Technology</i> , 1998 , 73, 160-166	5.3	142
780	Development of nano-Y ₂ O ₃ containing magnesium nanocomposites using solidification processing. <i>Journal of Alloys and Compounds</i> , 2007 , 429, 176-183	5.7	138

779	Increasing significantly the failure strain and work of fracture of solidification processed AZ31B using nano-Al ₂ O ₃ particulates. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 244-250	5.7	134
778	Mg-based composite reinforced by Mg ₂ Si. <i>Composites Science and Technology</i> , 2003 , 63, 627-632	8.6	134
777	Sensing with toroidal metamaterial. <i>Applied Physics Letters</i> , 2017 , 110, 121108	3.4	131
776	2007 ,		130
775	Effect of particulate size of Al ₂ O ₃ reinforcement on microstructure and mechanical behavior of solidification processed elemental Mg. <i>Journal of Alloys and Compounds</i> , 2006 , 419, 84-90	5.7	123
774	Selective Laser Melting of Magnesium and Magnesium Alloy Powders: A Review. <i>Metals</i> , 2017 , 7, 2	2.3	120
773	Mechanical Properties of Magnesium-Rare Earth Alloy Systems: A Review. <i>Metals</i> , 2015 , 5, 1-39	2.3	119
772	Improving the performance of lead-free solder reinforced with multi-walled carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 423, 166-169	5.3	118
771	Microstructure and mechanical properties of hypo/hyper-eutectic AlBi alloys synthesized using a near-net shape forming technique. <i>Journal of Alloys and Compounds</i> , 1999 , 287, 284-294	5.7	118
770	Influence of ceramic reinforcements on the wettability and mechanical properties of novel lead-free solder composites. <i>Thin Solid Films</i> , 2006 , 504, 401-404	2.2	116
769	Sharp Toroidal Resonances in Planar Terahertz Metasurfaces. <i>Advanced Materials</i> , 2016 , 28, 8206-8211	2.4	115
768	Enhancing compressive response of AZ31B magnesium alloy using alumina nanoparticles. <i>Composites Science and Technology</i> , 2008 , 68, 2185-2192	8.6	115
767	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	4.3	115
766	Interfacial intermetallic growth and shear strength of lead-free composite solder joints. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 100-106	5.7	114
765	Enhancing physical and mechanical properties of Mg using nanosized Al ₂ O ₃ particulates as reinforcement. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2253-2258	2.3	112
764	Enhanced performance of nano-sized SiC reinforced Al metal matrix nanocomposites synthesized through microwave sintering and hot extrusion techniques. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 606-614	3.6	110
763	Enhancing strength and ductility of magnesium by integrating it with aluminum nanoparticles. <i>Acta Materialia</i> , 2007 , 55, 6338-6344	8.4	108
762	Tribology characteristics of magnesium alloy AZ31B and its composites. <i>Tribology International</i> , 2015 , 82, 464-471	4.9	105

761	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	1.5	99
760	Advanced Metal Matrix Nanocomposites. <i>Metals</i> , 2019 , 9, 330	2.3	96
759	Hierarchical magnesium nano-composites for enhanced mechanical response. <i>Acta Materialia</i> , 2010 , 58, 6104-6114	8.4	95
758	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	5.3	94
757	Terahertz sensing of 7 nm dielectric film with bound states in the continuum metasurfaces. <i>Applied Physics Letters</i> , 2019 , 115, 151105	3.4	93
756	Development of high performance magnesium nanocomposites using solidification processing route. <i>Materials Science and Technology</i> , 2004 , 20, 1383-1388	1.5	93
755	Development of a novel magnesium/copper based composite with improved mechanical properties. <i>Materials Research Bulletin</i> , 2002 , 37, 377-389	5.1	91
754	Graphene nanoplatelets induced heterogeneous bimodal structural magnesium matrix composites with enhanced mechanical properties. <i>Scientific Reports</i> , 2016 , 6, 38824	4.9	91
753	The tribological properties of Al ₂ O ₃ /SiCp metal matrix composites fabricated using the rheocasting technique. <i>Journal of Materials Processing Technology</i> , 1999 , 89-90, 591-596	5.3	89
752	Microstructural evolution and mechanical properties of SiC/Al ₂ O ₃ particulate-reinforced spray-deposited metal-matrix composites. <i>Journal of Materials Science</i> , 1993 , 28, 2245-2259	4.3	89
751	Development of a novel magnesium/nickel composite with improved mechanical properties. <i>Journal of Alloys and Compounds</i> , 2002 , 335, L10-L15	5.7	88
750	Dry sliding wear behaviour of zinc oxide reinforced magnesium matrix nano-composites. <i>Materials & Design</i> , 2014 , 58, 475-481		85
749	Effect of Carbon Nanotubes on the Shear Strength and Electrical Resistivity of a Lead-Free Solder. <i>Journal of Electronic Materials</i> , 2008 , 37, 515-522	1.9	85
748	A Toroidal Metamaterial Switch. <i>Advanced Materials</i> , 2018 , 30, 1704845	24	84
747	Development of high strength magnesium copper based hybrid composites with enhanced tensile properties. <i>Materials Science and Technology</i> , 2003 , 19, 253-259	1.5	81
746	Effect of type of processing on the microstructural features and mechanical properties of Al-Cu/SiC metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 210, 114-122	5.3	79
745	Toroidal versus Fano Resonances in High Q planar THz Metamaterials. <i>Advanced Optical Materials</i> , 2016 , 4, 2119-2125	8.1	79
744	Hot workability and deformation mechanisms in Mg/nanoAl ₂ O ₃ composite. <i>Composites Science and Technology</i> , 2009 , 69, 1070-1076	8.6	77

743	Lead-free solder reinforced with multiwalled carbon nanotubes. <i>Journal of Electronic Materials</i> , 2006 , 35, 1518-1522	1.9	74
742	Slurry erosion characteristics and erosion mechanisms of stainless steel. <i>Tribology International</i> , 2014 , 79, 1-7	4.9	73
741	Enhancing tensile/compressive response of magnesium alloy AZ31 by integrating with Al ₂ O ₃ nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 162-168	5.3	73
740	An Insight into Evolution of Light Weight High Entropy Alloys: A Review. <i>Metals</i> , 2016 , 6, 199	2.3	73
739	Enhanced overall strength and ductility of magnesium matrix composites by low content of graphene nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 100, 183-193	8.4	71
738	Effect of reinforcement volume fraction on the evolution of reinforcement size during the extrusion of Al-SiC composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 326, 355-363	5.3	71
737	Interface tailoring to enhance mechanical properties of carbon nanotube reinforced magnesium composites. <i>Materials & Design</i> , 2014 , 60, 490-495		69
736	Solidification processed Mg/Al bimetal macrocomposite: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2008 , 461, 200-208	5.7	69
735	The Effect of ceramic reinforcements during spray atomization and codeposition of metal matrix composites: part i. heat transfer. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992 , 23, 831-843		69
734	Characterization of High Performance Mg/MgO Nanocomposites. <i>Journal of Composite Materials</i> , 2007 , 41, 2325-2335	2.7	68
733	Enhancing overall tensile and compressive response of pure Mg using nano-TiB ₂ particulates. <i>Materials Characterization</i> , 2014 , 94, 178-188	3.9	67
732	An insight into ignition factors and mechanisms of magnesium based materials: A review. <i>Materials and Design</i> , 2017 , 113, 84-98	8.1	66
731	Addition of CNTs to enhance tensile/compressive response of magnesium alloy ZK60A. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 180-188	8.4	66
730	Development of new magnesium based alloys and their nanocomposites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8522-8529	5.7	66
729	Simultaneously Improving Strength and Ductility of Magnesium using Nano-size SiC Particulates and Microwaves. <i>Advanced Engineering Materials</i> , 2006 , 8, 735-740	3.5	66
728	Development of high strength magnesium based composites using elemental nickel particulates as reinforcement. <i>Journal of Materials Science</i> , 2002 , 37, 2467-2474	4.3	66
727	Investigation of the reactions between boron and titanium compounds with magnesium. <i>Scripta Materialia</i> , 2001 , 45, 479-486	5.6	66
726	Microstructure and properties of spray atomized and deposited Al-7SiSiCp metal matrix composites. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 26, 825-830		66

725	Effect of impact angle and testing time on erosion of stainless steel at higher velocities. <i>Wear</i> , 2014 , 321, 87-93	3.5	65
724	Enhancing compressive response of AZ31B using nano-Al ₂ O ₃ and copper additions. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 382-387	5.7	65
723	Corrosion behavior of SiC reinforced magnesium composites. <i>Corrosion Science</i> , 2007 , 49, 711-725	6.8	65
722	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	5.3	64
721	SOLIDIFICATION BEHAVIOR OF Al-Li-SiCp MMCs PROCESSED USING VARIABLE CO-DEPOSITION OF MULTI-PHASE MATERIALS. <i>Materials and Manufacturing Processes</i> , 1990 , 5, 165-196	4.1	64
720	A Stochastic Intelligent Computing with Neuro-Evolution Heuristics for Nonlinear Sitr System of Novel COVID-19 Dynamics. <i>Symmetry</i> , 2020 , 12, 1628	2.7	64
719	High-temperature tensile properties of Mg/Al ₂ O ₃ nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 56-62	5.3	61
718	Enhancing strength and ductility of Mg/SiC composites using recrystallization heat treatment. <i>Composite Structures</i> , 2006 , 72, 266-272	5.3	61
717	Development of high performance Mg/TiO ₂ nanocomposites targeting for biomedical/structural applications. <i>Materials & Design</i> , 2015 , 65, 104-114		60
716	Simultaneous enhancement of tensile/compressive strength and ductility of magnesium alloy AZ31 using carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 956-64	1.3	60
715	Development of lead-free Sn _{0.7} Cu/Al ₂ O ₃ nanocomposite solders with superior strength. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 095403	3	60
714	Investigation into tensile and compressive responses of Mg/ZnO composites. <i>Materials Science and Technology</i> , 2012 , 28, 582-588	1.5	57
713	Development and characterization of magnesium composites containing nano-sized silicon carbide and carbon nanotubes as hybrid reinforcements. <i>Journal of Materials Science</i> , 2007 , 42, 10040-10046	4.3	57
712	Wetting and interfacial reactions in Al-Li-SiCp metal matrix composites processed by spray atomization and deposition. <i>Journal of Materials Science</i> , 1991 , 26, 6673-6684	4.3	57
711	Synthesis and mechanical behavior of carbon nanotube/magnesium composites hybridized with nanoparticles of alumina. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 466, 32-37	5.3	56
710	The mechanical behavior of magnesium alloy AZ91 reinforced with fine copper particulates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 369, 302-308	5.3	56
709	Development of high performance Mg/Al ₂ O ₃ composites containing Al ₂ O ₃ in submicron length scale using microwave assisted rapid sintering. <i>Materials Science and Technology</i> , 2005 , 21, 1063-1070	1.5	54
708	Enhanced corrosion performance of magnesium phosphate conversion coating on AZ31 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1087-1095	3.3	53

707	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticulates. <i>International Journal of Materials Research</i> , 2016 , 107, 1091-1099	0.5	53
706	Nano-ZnO particle addition to monolithic magnesium for enhanced tensile and compressive response. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 211-219	5.7	53
705	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	2.7	53
704	Microwave synthesis and characterization of metastable (Al/Ti) and hybrid (Al/Ti+SiC) composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 61-69	5.3	53
703	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	3.5	52
702	Synthesis and Characterization of Nano Boron Nitride Reinforced Magnesium Composites Produced by the Microwave Sintering Method. <i>Materials</i> , 2013 , 6, 1940-1955	3.5	51
701	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	5.7	51
700	Structural and mechanical properties of Ni ₆₀ Nb ₄₀ amorphous alloy particle reinforced Al-based composites produced by microwave-assisted rapid sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 581, 119-127	5.3	50
699	Enhancing tensile and compressive strength of magnesium using ball milled Al+CNT reinforcement. <i>Composites Science and Technology</i> , 2012 , 72, 290-298	8.6	49
698	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	5.3	49
697	A DSC study on the precipitation kinetics of cryorolled Al 6063 alloy. <i>Materials Chemistry and Physics</i> , 2010 , 122, 188-193	4.4	48
696	Influence of stirring speed on the synthesis of Al/SiC based functionally gradient materials. <i>Composite Structures</i> , 2002 , 57, 227-233	5.3	48
695	High Strength Lead-Free Composite Solder Materials using Nano Al ₂ O ₃ as Reinforcement. <i>Advanced Engineering Materials</i> , 2005 , 7, 1049-1054	3.5	48
694	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	4.3	48
693	A Comparative Study of Gallium-Prostate Specific Membrane Antigen Positron Emission Tomography-Computed Tomography and Magnetic Resonance Imaging for Lymph Node Staging in High Risk Prostate Cancer Patients: An Initial Experience. <i>World Journal of Nuclear Medicine</i> , 2017 , 16, 186-191	0.6	48
692	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		47
691	Study on hot deformation behavior and microstructure evolution of cast-extruded AZ31B magnesium alloy and nanocomposite using processing map. <i>Materials & Design</i> , 2013 , 47, 449-455		47
690	Sliding wear behaviour of AZ31B magnesium alloy and nano-composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 60-65	3.3	47

689	The effect of process parameters on machining of magnesium nano alumina composites through EDM. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 46, 1035-1042	3.2	47
688	Scratch hardness and mechanical property correlation for Mg/SiC and Mg/SiC/Ti metal matrix composites. <i>Tribology International</i> , 2006 , 39, 184-189	4.9	47
687	Synthesis and characterization of high performance low volume fraction TiC reinforced Mg nanocomposites targeting biocompatible/structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 306-315	5.3	46
686	Development of lead-free Sn-3.5Ag/SnO ₂ nanocomposite solders. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 571-576	2.1	46
685	Increasing elastic modulus, strength and CTE of AZ91 by reinforcing pure magnesium with elemental copper. <i>Materials Letters</i> , 2004 , 58, 2143-2146	3.3	46
684	Reinforcements at nanometer length scale and the electrical resistivity of lead-free solders. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 458-461	5.7	45
683	Corrosion behaviour of MgCu and MgMo composites in 3.5% NaCl. <i>Corrosion Science</i> , 2008 , 50, 2423-2428	2.8	45
682	Nano-AlN particle reinforced Mg composites: microstructural and mechanical properties. <i>Materials Science and Technology</i> , 2015 , 31, 1122-1131	1.5	44
681	Using integrated hybrid (Al + CNT) reinforcement to simultaneously enhance strength and ductility of magnesium. <i>Composites Science and Technology</i> , 2011 , 71, 734-741	8.6	44
680	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	5.7	44
679	Improving mechanical performance of Al by using Ti as reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1010-1018	8.4	44
678	Progress in research on hybrid metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155274	5.7	43
677	Investigation on dry sliding wear behavior of Mg/BN nanocomposites. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 263-276	8.8	43
676	Improved properties of AlBi ₃ N ₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , 2017 , 7, 34401-34410	3.7	43
675	Aluminum and Magnesium Metal Matrix Nanocomposites. <i>Engineering Materials</i> , 2017 ,	0.4	43
674	Processing maps, microstructure evolution and deformation mechanisms of extruded AZ31-DMD during hot uniaxial compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 773-781	5.3	43
673	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	8.4	43
672	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		42

671	Carbon nanotube addition to concentrated magnesium alloy AZ81: Enhanced ductility with occasional significant increase in strength. <i>Materials & Design</i> , 2013 , 45, 15-23		42
670	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	5.7	42
669	Wear of a spray-deposited hypereutectic aluminium-silicon alloy. <i>Journal of Materials Processing Technology</i> , 1997 , 63, 865-870	5.3	42
668	Effect of processing on the microstructural variation and heat-treatment response of a hypereutectic Al ₂ Si alloy. <i>Journal of Materials Processing Technology</i> , 1995 , 54, 261-270	5.3	42
667	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 398-408	5.7	42
666	Enhancing thermal and mechanical response of aluminum using nanolength scale TiC ceramic reinforcement. <i>Ceramics International</i> , 2018 , 44, 9247-9254	5.1	41
665	Effect of Ag and Cu trace additions on the microstructural evolution and mechanical properties of Mg ₃ Sn alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 565, 56-65	5.7	41
664	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm ₂ O ₃ Nanoparticles. <i>Metals</i> , 2017 , 7, 357	2.3	41
663	Development of high strength SnCu solder using copper particles at nanolength scale. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 199-206	5.7	41
662	Improvement of microstructure and mechanical properties of AZ91/SiC composite by mechanical alloying. <i>Journal of Materials Science</i> , 2000 , 35, 5553-5561	4.3	41
661	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. <i>Materials</i> , 2017 , 10,	3.5	40
660	Development of processing maps for Al/SiCp composite using fuzzy logic. <i>Journal of Materials Processing Technology</i> , 2007 , 183, 104-110	5.3	40
659	Microstructure, excess solid solubility, and elevated-temperature mechanical behavior of spray-atomized and codeposited Al-Ti-SiCP. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1992 , 23, 719-736		40
658	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	10	39
657	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	5.7	39
656	Development of high performance magnesium composites using Ni ₅₀ Ti ₅₀ metallic glass reinforcement and microwave sintering approach. <i>Journal of Alloys and Compounds</i> , 2015 , 627, 192-199	5.7	39
655	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	5.3	39
654	Using Microwave-Assisted Powder Metallurgy Route and Nano-size Reinforcements to Develop High-Strength Solder Composites. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 335-341	1.6	39

653	Accumulative Roll Bonding: A Review. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3627	2.6	38
652	Additive manufacturing of magnesium-zinc-zirconium (ZK) alloys via capillary-mediated binderless three-dimensional printing. <i>Materials and Design</i> , 2019 , 169, 107683	8.1	38
651	Microstructural evolution and mechanical properties of Mg composites containing nano-B4C hybridized micro-Ti particulates. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1178-1190	4.4	38
650	Regarding the processing associated microstructure and mechanical properties improvement of an Al-4.5 Cu alloy. <i>Journal of Alloys and Compounds</i> , 1997 , 260, 250-255	5.7	38
649	Enhancing Thermal Stability, Modulus and Ductility of Magnesium using Molybdenum as Reinforcement. <i>Advanced Engineering Materials</i> , 2005 , 7, 250-256	3.5	38
648	Interrelationship between matrix microhardness and ultimate tensile strength of discontinuous particulate-reinforced aluminum alloy composites. <i>Materials Letters</i> , 2001 , 51, 255-261	3.3	38
647	Sliding wear behaviour of calcium containing AZ31B/Al ₂ O ₃ nanocomposites. <i>Wear</i> , 2010 , 269, 473-479	3.5	37
646	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	5.1	37
645	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. <i>Ceramics International</i> , 2018 , 44, 15035-15043	5.1	37
644	Liquid Metal Infiltration Processing of Metallic Composites: A Critical Review. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 2799-2819	2.5	36
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169	Effect of Calcium on the Hot Working Behavior of AZ31-1.5 vol.% Nano-Alumina Composite Prepared by Disintegrated Melt Deposition (DMD) Processing. <i>Metals</i> , 2018 , 8, 699	2.3	2
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167	Utilizing Iron as Reinforcement to Enhance Ambient Mechanical Response and Impression Creep Response of Magnesium. <i>Metals</i> , 2021 , 11, 1448	2.3	2
166	Evaluation of mechanical properties of dissimilar aluminium alloys during friction stir welding using tapered tool. <i>Cogent Engineering</i> , 2021 , 8, 1909520	1.5	2
165	Risk stratification and staging in prostate cancer with prostatic specific membrane antigen PET/CTObjective: A one-stop-shop. <i>Hellenic Journal of Nuclear Medicine</i> , 2017 , 20 Suppl, 156	0.6	2
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162	Design and Performance Analysis of Interleaved Inverter Topology for Photovoltaic Applications 2020 ,		1
161	Primary pineal rhabdomyosarcoma in an adult male patient: A rare presentation and review of the literature. <i>Clinical Neurology and Neurosurgery</i> , 2020 , 196, 106044	2	1
160	Synthesis of Magnesium Based Nano-composites 2020 ,		1
159	Microstructure And Mechanical Properties New Magnesium- Zinc-Gadolinium Alloys 2016 , 159-163		1
158	Impression Creep Characteristics of Mg-Sn-Ag Alloy. <i>Applied Mechanics and Materials</i> , 2016 , 854, 33-37	0.3	1
157	Metal Matrix Nanocomposites: An Overview. <i>Engineering Materials</i> , 2017 , 1-17	0.4	1
156	Microstructure and Mechanical Properties of a Magnesium-Aluminium-Erbium Alloy 2015 , 445-449		1
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154	Microstructure and mechanical properties of Mg-Al alloys with in situ Al ₄ C ₃ phase synthesised by CO ₂ incorporation during liquid state processing. <i>International Journal of Microstructure and Materials Properties</i> , 2013 , 8, 283	0.4	1
153	The ability of cast composite technology to enhance ductility of wrought magnesium and alloys. <i>International Journal of Materials Research</i> , 2011 , 102, 76-81	0.5	1
152	Microwave Heating 2011 , 43-63		1
151	Microwave Heating of Metal-Based Materials 2011 , 65-157		1
150	Utilizing energy efficient microwave sintering to significantly enhance the tensile response of a lead-free solder. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015404	3	1

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148	Magnesium Composites 2010 , 113-205		1
147	Enhancing Mechanical Properties of AZ31 Magnesium Alloy Through Simultaneous Addition of Aluminum and Nano-Al ₂ O ₃ 2010 ,		1
146	Effect of chloride ions on passivity of Mg based materials. <i>Corrosion Engineering Science and Technology</i> , 2008 , 43, 179-185	1.7	1
145	Effect of Presence of Multi-Walled Carbon Nanotubes on the Creep Properties of Sn-Ag-Cu Solder 2006 , 161		1
144	Effect of the Presence of Continuous/ Discontinuous/ Hybrid Reinforcement on the Damping Characteristics of Pure Aluminium Matrix. <i>Solid State Phenomena</i> , 2006 , 111, 71-74	0.4	1
143	Influence of Reinforcements on the Electrical Resistivity of Novel Sn-Ag-Cu Composite Solder 2007 , 39		1
142	FEM based damping studies of metastable Al/Ti composites. <i>Journal of Alloys and Compounds</i> , 2005 , 394, 226-234	5.7	1
141	Characterization of Magnesium/Carbon Nanotubes Composites Synthesized Using an Innovative Solidification Method 2004 , 7		1
140	Development of Mg/Cu Nanocomposites Using Microwave Assisted Powder Metallurgy Technique 2005 , 1		1
139	Application Of A Model For The Work Hardening Behaviour Of A SiC Reinforced Mg Based Metal - Matrix Composite. <i>Materials Technology</i> , 2001 , 16, 191-195	2.1	1
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130	Mechanical Characterization of Graphene Nanoplatelets-Reinforced Mg-3Sn Alloy Synthesized by Powder Metallurgy. <i>Metals</i> , 2021 , 11, 62	2.3	1
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127	TWDM-PON: The Enhanced PON for Triple Play Services 2020 ,		1
126	Effect of Nano-Alumina and Copper Micron Size Particulates on Microstructure and Mechanical Properties of Magnesium Alloy AZ31 2012 , 187-189		1
125	An Insight into Processing and Characteristics of Magnesium Based Composites 2014 , 423-428		1
124	Enhancing the Tensile Response of Magnesium Through Simultaneous Addition of Aluminium and Alumina Nanoparticulates. <i>Minerals, Metals and Materials Series</i> , 2017 , 253-257	0.3	1
123	An Insight Into Use of Hollow Fly Ash Particles on the Properties of Magnesium 2016 , 175-176		1
122	Effect of Nano-Alumina and Copper Micron Size Particulates on Microstructure and Mechanical Properties of Magnesium Alloy AZ31 187-189		1
121	An Insight into Processing and Characteristics of Magnesium Based Composites 419-428		1
120	Magnesium-Barium oxide nanocomposites: Room-temperature depth-sensing nanoindentation response. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020 , 3, 217-225	2.2	1
119	Thermomechanical Processing of AZ31-3Ca Alloy Prepared by Disintegrated Melt Deposition (DMD). <i>Crystals</i> , 2020 , 10, 647	2.3	1
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117	Influence of micro Ti particles on resistance to cavitation erosion of Mg-xTi composites. <i>Mechanics of Materials</i> , 2021 , 154, 103705	3.3	1
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115	Development and Properties of Amorphous Particles Reinforced Al Matrix Nanocomposites 2021 , 96-108		1
114	Eco-friendly Metal Matrix Composites 2021 , 140-159		1

113	An Insight Into Magnesium Based Metal Matrix Composites With Hybrid Reinforcement 2021 , 52-77		1
112	Microstructure and Corrosion Behavior of Extruded Mg-Zn-Er Alloys. <i>Materials Science Forum</i> , 2018 , 941, 1766-1771	0.4	1
111	Microstructure and Corrosion Behavior of Extruded Mg-Sn-Y Alloys. <i>Metals</i> , 2021 , 11, 1095	2.3	1
110	Hybrid (Carbon Nanotube + Graphene Nanoplatelet)/AZ31 Composite with Simultaneously Enhanced Strength and Ductility. <i>Advanced Engineering Materials</i> , 2100827	3.5	1
109	Low dose lung radiotherapy for COVID-19 pneumonia: A potential treatment. <i>Respiratory Medicine</i> , 2021 , 186, 106531	4.6	1
108	The Promise of Turning Induced Deformation Process for Synthesizing Magnesium Based Materials with Superior Mechanical Response. <i>Technologies</i> , 2021 , 9, 69	2.4	1
107	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements 2022 , 26-45		1
106	Effect of Ca Addition on the Microstructural and Mechanical Properties of AZ51/1.5 A12O3 Magnesium Nanocomposite 201-206		1
105	Using Energy Efficient Microwaves to Synthesize High Performance Energy Saving Magnesium (Nano) Composites 187-193		1
104	An Insight into Use of Hollow Fly Ash Particles on The Properties of Magnesium 175-176		1
103	Titanium versus magnesium plates for unilateral mandibular angle fracture fixation: biomechanical evaluation using 3-dimensional finite element analysis. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 2064-2076	5.5	1
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94	Introduction to Magnesium 2010 , 1-12		○
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- 57 Microwave Heating of Other Materials **2011**, 159-182
- 56 On the Influence of Carbon Nanotubes and Processing on Tensile Response and Fracture Behavior of a Magnesium Alloy. *Advanced Materials Research*, **2011**, 410, 133-141 0.5
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- 53 Appendix: List of Some Magnesium Suppliers **2010**, 249-249
- 52 StrengthDuctility Combinations of Magnesium-Based Materials **2010**, 233-248
- 51 Synthesis Techniques for Magnesium-Based Materials **2010**, 13-38
- 50 Effect of temperature in single phase regime on aging response of (Al-2Cu)/SiC metal matrix composite synthesised using disintegrated melt deposition technique. *Materials Science and Technology*, **1997**, 13, 187-191 1.5
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