

# Manoj Gupta

## List of Publications by Year in Descending Order

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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	A Prospective Randomized Study of Intensity-Modulated Radiation Therapy Versus Three-Dimensional Conformal Radiation Therapy With Concurrent Chemotherapy in Locally Advanced Carcinoma Cervix.. <i>Cureus</i> , <b>2022</b> , 14, e21000	1.2	
795	Compositional Tailoring of Mg-2Zn-1Ca Alloy Using Manganese to Enhance Compression Response and In-Vitro Degradation.. <i>Materials</i> , <b>2022</b> , 15,	3.5	3
794	Tribological Response of Magnesium/Glass Microballoon Syntactic Foams. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 311-320	0.3	
793	Preserving Privacy of User Identity Based on Pseudonym Variable in 5G. <i>Computers, Materials and Continua</i> , <b>2022</b> , 70, 5551-5568	3.9	2
792	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements <b>2022</b> , 26-45		1
791	Implementation of Mathematical Morphology Technique in Binary and Grayscale Image. <i>Transactions on Computer Systems and Networks</i> , <b>2022</b> , 203-212		0
790	Metachronous Osseous Metastases From Glioblastoma Mutiforme: An Unusual Presentation.. <i>Cureus</i> , <b>2022</b> , 14, e22587	1.2	0
789	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
788	Molecular Response Assessment with Immune Adaptive PERCIST in Lung Cancer Patients Treated with Nivolumab: Is It Better Than iRECIST?. <i>World Journal of Nuclear Medicine</i> , <b>2022</b> , 21, 34-43	0.6	
787	Preparedness of Undergraduate Medical Students to Combat COVID-19: A Tertiary Care Experience on the Effectiveness and Efficiency of a Training Program and Future Prospects.. <i>Cureus</i> , <b>2022</b> , 14, e22971	1.2	0
786	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> , <b>2022</b> , 18, 2064-2076	5.5	1
785	Interfacial characterization and its influence on the corrosion behavior of Mg-SiO <sub>2</sub> nanocomposites. <i>Acta Materialia</i> , <b>2022</b> , 230, 117840	8.4	1
784	Photoswitchable Anapole Metasurfaces. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2102284	8.1	0
783	Pre-Silicon NBTI Delay-Aware Modeling of Network-on-Chip Router Microarchitecture. <i>Microprocessors and Microsystems</i> , <b>2022</b> , 104526	2.4	
782	On-Chip Active Control of Ultra-High-Q Terahertz Photonic Topological Cavities.. <i>Advanced Materials</i> , <b>2022</b> , e2202370	24	6
781	In vitro cytotoxicity and osteogenic potential of quaternary Mg-2Zn-1Ca/X-Mn alloys for craniofacial reconstruction.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8259	4.9	1
780	In Vitro Electrochemical Corrosion Assessment of Magnesium Nanocomposites Reinforced with Samarium(III) Oxide and Silicon Dioxide Nanoparticles. <i>Journal of Composites Science</i> , <b>2022</b> , 6, 154	3	1

779	Use of F Fluorodeoxyglucose Positron Emission Tomography Computed Tomography in Assessing Response to Neoadjuvant Chemoradiation and Its Impact on Survival in Esophageal Squamous Cell Carcinoma. <i>Journal of Gastrointestinal Cancer</i> , <b>2021</b> , 52, 1073-1080	1.6	0
778	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
777	Mechanical properties of dense mycelium-bound composites under accelerated tropical weathering conditions. <i>Scientific Reports</i> , <b>2021</b> , 11, 22112	4.9	6
776	Mechanical Characterization of Graphene Nanoplatelets-Reinforced Mg-3Sn Alloy Synthesized by Powder Metallurgy. <i>Metals</i> , <b>2021</b> , 11, 62	2.3	1
775	Artificial Neural Networks to Solve the Singular Model with Neumann-Robin, Dirichlet and Neumann Boundary Conditions. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
774	Tribocorrosion Mechanisms of Pure MgBiO <sub>2</sub> Nano Syntactic Biodegradable Foams Against Bovine Bone in Artificial Saliva Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , <b>2021</b> , 7, 1	2.9	0
773	Effect of samarium oxide nanoparticles on degradation and invitro biocompatibility of magnesium. <i>Materials Today Communications</i> , <b>2021</b> , 26, 102171	2.5	5
772	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
771	Hot Compression and Processing maps of Magnesium reinforced with Boron Nitride Nano-composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1126, 012057	0.4	
770	Lightweight Medium Entropy Magnesium Alloy with Exceptional Compressive Strength and Ductility Combination. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 2422-2432	1.6	2
769	Computational Intelligent Paradigms to Solve the Nonlinear SIR System for Spreading Infection and Treatment Using LevenbergMarquardt Backpropagation. <i>Symmetry</i> , <b>2021</b> , 13, 618	2.7	6
768	Electrically Tunable All-PCM Visible Plasmonics. <i>Nano Letters</i> , <b>2021</b> , 21, 4044-4050	11.5	4
767	Electrochemical Characterization of a Novel Mg <sub>70</sub> Al <sub>18</sub> Zn <sub>6</sub> Ca <sub>4</sub> Y <sub>2</sub> Low Entropy Alloy in Different Aqueous Environments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 2549-2563	2.3	2
766	Terahertz Microfluidic Sensing with Dual-Torus Toroidal Metasurfaces. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100024	8.1	14
765	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
764	Evolutionary Integrated Heuristic with Gudermannian Neural Networks for Second Kind of LaneEmden Nonlinear Singular Models. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4725	2.6	12
763	Wettability in Metal Matrix Composites. <i>Metals</i> , <b>2021</b> , 11, 1034	2.3	12
762	Microstructure, mechanical properties and corrosion analysis of Sn <sub>0.7</sub> Cu + Ga solders joints developed using green concentrated solar energy soldering method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 21709-21726	2.1	0

761	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
760	Biocompatibility of Metal Matrix Composites Used for Biomedical Applications <b>2021</b> , 474-501		2
759	Tensile Response of Al-Based Nanocomposites <b>2021</b> , 313-324		
758	Fundamentals of Metal Matrix Composites <b>2021</b> , 11-29		
757	Emergence of god's favorite metallic element: Magnesium based materials for engineering and biomedical applications. <i>Materials Today: Proceedings</i> , <b>2021</b> , 39, 311-316	1-4	4
756	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
755	Rapid densification of additive manufactured magnesium alloys via microwave sintering. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101655	6-1	4
754	Micromechanics and indentation creep of magnesium carbon nanotube nanocomposites: 298KB73K. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 801, 140418	5-3	8
753	Optimization of coated friction drilling tool for a FML composite. <i>Materials and Manufacturing Processes</i> , <b>2021</b> , 36, 351-361	4-1	4
752	Revealing modification mechanism of Mg <sub>2</sub> Si in Sb modified Mg <sub>2</sub> Si/ AZ91 composites and its effect on mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156877	5-7	5
751	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
750	The Effects of Extrusion Ratio on Microstructure and Mechanical Properties of Hybrid Micron SiC and Carbon Nanotube Reinforced AZ61 Composite. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001089	3-5	1
749	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
748	Primary Malignant Rhabdoid Tumour of the Liver in Adult Male: a Diagnostic and Therapeutic Challenge. <i>Journal of Gastrointestinal Cancer</i> , <b>2021</b> , 52, 738-741	1-6	
747	Using low-temperature sinterless powder method to develop exceptionally high amount of zinc containing Mg <sub>2</sub> Ni <sub>2</sub> Ca alloy and Mg <sub>2</sub> Ni <sub>2</sub> Ca/SiO <sub>2</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 156957	5-7	2
746	Performance Analysis of Kalman Filter in Computed Tomography Thorax for Image Denoising. <i>Recent Advances in Computer Science and Communications</i> , <b>2021</b> , 13, 1199-1212	0-6	2
745	Corrosion permeability resistance of concrete with nanoplastics as admixture. <i>Cogent Engineering</i> , <b>2021</b> , 8, 1882099	1-5	
744	Development and Properties of Amorphous Particles Reinforced Al Matrix Nanocomposites <b>2021</b> , 96-108		1

743	Expression of Human epidermal growth factor receptor 2, Survivin, Enhancer of zeste homolog -2, Cyclooxygenase-2, p53 and p16 molecular markers in Gall bladder carcinoma. <i>Journal of Carcinogenesis</i> , <b>2021</b> , 20, 7	1.9	4
742	Expression and clinicopathological correlation of Ki-67 in gallbladder carcinoma. <i>Journal of Carcinogenesis</i> , <b>2021</b> , 20, 11	1.9	2
741	Tensile Characteristics of Metal Matrix Composites <b>2021</b> , 298-312		
740	Mechanical and Tribological Properties of Aluminum Based Metal Matrix Nanocomposites <b>2021</b> , 402-414		
739	Metal Matrix Syntactic Composites <b>2021</b> , 109-120		
738	Hardfacing studies of Ni alloys: a critical review. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 10, 1210-1242	5.5	11
737	Influence of Spindle Rotational Speeds on Pure Mg and 0.1GNP-3Al-Mg Alloy-Nanocomposite in Wire Electrical Discharge Turning Process. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 111-119	0.4	
736	Meet Our Co-Editor. <i>Current Materials Science</i> , <b>2021</b> , 13, 75-76	1.1	
735	Automated Controller Placement for Software-Defined Networks to Resist DDoS Attacks. <i>Computers, Materials and Continua</i> , <b>2021</b> , 68, 3147-3165	3.9	3
734	Eco-friendly Metal Matrix Composites <b>2021</b> , 140-159		1
733	Synthesis and Characterization of aluminium based multicomponent alloys. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 1210-1214	1.4	2
732	Development of Eco-Magnesium Based Composite with Enhanced Mechanical, Damping and Ignition Properties. <i>Recent Patents on Engineering</i> , <b>2021</b> , 14, 348-356	0.3	
731	Oligometastasis to testis in prostate cancer: Role of gallium-68 prostate-specific membrane antigen positron-emission tomography computed tomography. <i>World Journal of Nuclear Medicine</i> , <b>2021</b> , 20, 113-116	0.6	2
730	Two Phase Processing of Metal Matrix Composites <b>2021</b> , 197-208		
729	An Insight Into Magnesium Based Metal Matrix Composites With Hybrid Reinforcement <b>2021</b> , 52-77		1
728	A New Estimation of Nonlinear Contact Forces of Railway Vehicle. <i>Intelligent Automation and Soft Computing</i> , <b>2021</b> , 28, 823-841	2.6	2
727	PTS-PAPR Reduction Technique for 5G Advanced Waveforms Using BFO Algorithm. <i>Intelligent Automation and Soft Computing</i> , <b>2021</b> , 27, 713-722	2.6	9
726	Mechanical properties and corrosion analysis of lead-free Sn0.7Cu solder CSI joints on Cu substrate. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 1101-1105	1.4	3

725	Demographic and clinicopathological Profile of Gall Bladder Cancer Patients: Study from a tertiary care center of the Sub-Himalayan region in Indo-Gangetic Belt. <i>Journal of Carcinogenesis</i> , <b>2021</b> , 20, 6	1.9	0
724	Solid Phase Processing of Metal Matrix Composites <b>2021</b> , 173-196		2
723	Fatigue Behavior of Magnesium Matrix Composites <b>2021</b> , 344-359		
722	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
721	Microstructure and Corrosion Behavior of Extruded Mg-Sn-Y Alloys. <i>Metals</i> , <b>2021</b> , 11, 1095	2.3	1
720	Low dose lung radiotherapy for COVID-19 pneumonia: A potential treatment. <i>Respiratory Medicine</i> , <b>2021</b> , 186, 106531	4.6	1
719	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
718	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
717	Evaluation of mechanical properties of dissimilar aluminium alloys during friction stir welding using tapered tool. <i>Cogent Engineering</i> , <b>2021</b> , 8, 1909520	1.5	2
716	Use of complementary and alternative medicine among patients with cancer in a sub-Himalayan state in India: An exploratory study. <i>Journal of Ayurveda and Integrative Medicine</i> , <b>2021</b> , 12, 126-130	3.3	3
715	Metal Based Composites With Metastable/Amorphous Reinforcements <b>2021</b> , 78-95		
714	Severe Plastic Deformation Processing of Metal Matrix Composites <b>2021</b> , 230-246		
713	Damping Characteristics of Metal Matrix Composites <b>2021</b> , 415-427		
712	Quality of Life of People with Cancer in the Era of the COVID-19 Pandemic in India: A Systematic Review.. <i>Clinical Practice and Epidemiology in Mental Health</i> , <b>2021</b> , 17, 280-286	3.2	0
711	Mg-based bulk metallic glasses: A review of recent developments. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
710	Hollow silica reinforced magnesium nanocomposites with enhanced mechanical and biological properties with computational modeling analysis for mandibular reconstruction. <i>International Journal of Oral Science</i> , <b>2020</b> , 12, 31	27.9	11
709	Coated and uncoated reinforcements metal matrix composites characteristics and applications [A critical review. <i>Cogent Engineering</i> , <b>2020</b> , 7, 1856758	1.5	3
708	Drill Hole Orientation: Its Role and Importance on the Compression Response of Pure Magnesium. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7047	2.6	2

707	Design and Performance Analysis of Interleaved Inverter Topology for Photovoltaic Applications <b>2020</b> ,			1
706	Microstructure, Mechanical, and Electrical Properties and Corrosion Analysis of Lead-Free Solder CSI Joints on Cu Substrate Using Novel Concentrated Solar Energy Soldering (CSES) Method. <i>Advances in Materials Science and Engineering</i> , <b>2020</b> , 2020, 1-16	1.5		6
705	Progress in research on hybrid metal matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 838, 155274	5.7		43
704	Primary pineal rhabdomyosarcoma in an adult male patient: A rare presentation and review of the literature. <i>Clinical Neurology and Neurosurgery</i> , <b>2020</b> , 196, 106044	2		1
703	Strengthening and toughening mechanisms of Mg matrix composites reinforced with specific spatial arrangement of in-situ TiB <sub>2</sub> nanoparticles. <i>Composites Part B: Engineering</i> , <b>2020</b> , 198, 108174	10		34
702	EMI shielding of metals, alloys, and composites <b>2020</b> , 341-355			2
701	Role of 68Ga-Prostate-Specific Membrane Antigen PET/CT in Disease Assessment in Glioblastoma Within 48 Hours of Surgery. <i>Clinical Nuclear Medicine</i> , <b>2020</b> , 45, 204-205	1.7		4
700	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
699	Synthesis of Magnesium Based Nano-composites <b>2020</b> ,			1
698	Paraneoplastic Transaminitis-a Rare Manifestation of Ovarian Cancer. <i>Indian Journal of Surgical Oncology</i> , <b>2020</b> , 11, 182-184	0.7		
697	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
696	Long-Term Survival in an Esophageal Cancer Patient with Multiple Recurrences. <i>Journal of Gastrointestinal Cancer</i> , <b>2020</b> , 51, 695-697	1.6		
695	Toroidal metasurfaces in a 2D flatland. <i>Reviews in Physics</i> , <b>2020</b> , 5, 100040	11.3		23
694	A new method to lightweight and improve strength to weight ratio of magnesium by creating a controlled defect. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 3664-3675	5.5		10
693	Magnesium Reinforced with Inconel 718 Particles Prepared Ex Situ-Microstructure and Properties. <i>Materials</i> , <b>2020</b> , 13,	3.5		2
692	Processing, microstructure and mechanical characterization of a new magnesium based multicomponent alloy. <i>Materials Today: Proceedings</i> , <b>2020</b> , 28, 1044-1047	1.4		2
691	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
690	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



689	Evaluation of platelet distribution width as novel biomarker in gall bladder cancer. <i>Journal of Carcinogenesis</i> , <b>2020</b> , 19, 5	1.9	4
688	Study of In Vitro Biodegradation Behavior of Mg <sub>0.5</sub> Zn <sub>0.5</sub> ES Composite. <i>Minerals, Metals and Materials Series</i> , <b>2020</b> , 253-258	0.3	
687	Zinc Versus Magnesium as Biodegradable Metals for Temporary Implants. <i>Material Science Research India</i> , <b>2020</b> , 17, 01-04	1	1
686	Clinical outcome of Lu-177 PSMA in metastatic castration-resistant prostate cancer: An initial experience from a tertiary care cancer hospital. <i>Annals of Cancer Research and Therapy</i> , <b>2020</b> , 28, 156-163 <sup>0.2</sup>		
685	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
684	Role of carbohydrate antigen 19-9, carcinoembryonic antigen, and carbohydrate antigen 125 as the predictors of resectability and survival in the patients of Carcinoma Gall Bladder. <i>Journal of Carcinogenesis</i> , <b>2020</b> , 19, 4	1.9	3
683	Identification of suitable reference genes in blood samples of carcinoma lung patients using quantitative real-time polymerase chain reaction. <i>Journal of Carcinogenesis</i> , <b>2020</b> , 19, 11	1.9	6
682	Analysis of UWB Indoor and Outdoor Channel Propagation <b>2020</b> ,		8
681	TWDM-PON: The Enhanced PON for Triple Play Services <b>2020</b> ,		1
680	An advisory by the association of radiation oncologists of India for radiation therapy patients and staff among COVID 19 pandemic. <i>Journal of Cancer Research and Therapeutics</i> , <b>2020</b> , 16, 638-640	1.2	
679	Active Control of Asymmetric Fano Resonances with GrapheneSilicon-Integrated Terahertz Metamaterials. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900840	6.8	19
678	Magnesium nanocomposites reinforced with rare earth element nanoparticles: nanoindentation-driven response. <i>Nanocomposites</i> , <b>2020</b> , 6, 22-30	3.4	3
677	MagnesiumBismuth 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
676	Strength retention, corrosion control and biocompatibility of Mg-Zn-Si/HA nanocomposites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 103, 103584	4.1	22
675	A study on the effect of low-cost eggshell reinforcement on the immersion, damping and mechanical properties of magnesiumZinc alloy. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107650	10	30
674	Unusual case of ductal breast carcinoma with vulvar metastasis. <i>Breast Journal</i> , <b>2020</b> , 26, 2255-2256	1.2	
673	A Stochastic Intelligent Computing with Neuro-Evolution Heuristics for Nonlinear SISR System of Novel COVID-19 Dynamics. <i>Symmetry</i> , <b>2020</b> , 12, 1628	2.7	64
672	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



671	ANALYSIS OF WEAR BEHAVIOR OF A NOVEL MAGNESIUM METAL-METAL COMPOSITE. <i>Surface Review and Letters</i> , <b>2020</b> , 27, 1950228	1.1	
670	In-Vitro Degradation of Hollow Silica Reinforced Magnesium Syntactic Foams in Different Simulated Body Fluids for Biomedical Applications. <i>Metals</i> , <b>2020</b> , 10, 1583	2.3	5
669	A New Method to Lightweight Magnesium Using Syntactic Composite Core. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4773	2.6	5
668	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
667	Pseudoprogession on 68Ga-Prostate-Specific Membrane Antigen-11 PET/CT in a Treated Glioblastoma. <i>Clinical Nuclear Medicine</i> , <b>2020</b> , 45, 621-622	1.7	0
666	Development of Novel Lightweight Metastable Metal-(Metal + Ceramic) Composites Using a New Powder Metallurgy Approach. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
665	A Novel Method of Light Weighting Aluminium Using Magnesium Syntactic Composite Core. <i>Crystals</i> , <b>2020</b> , 10, 917	2.3	5
664	Thermomechanical Processing of AZ31-3Ca Alloy Prepared by Disintegrated Melt Deposition (DMD). <i>Crystals</i> , <b>2020</b> , 10, 647	2.3	1
663	Running an oncology day-care with guts and glory. <i>Medical Oncology</i> , <b>2020</b> , 37, 87	3.7	
662	Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement. <i>IEEE Access</i> , <b>2020</b> , 8, 153240-153249	3.5	21
661	A Walk with Lu-177 PSMA: How Close we Have Reached from Bench to Bedside?. <i>Cancer Investigation</i> , <b>2020</b> , 38, 486-492	2.1	3
660	Effect of dilution on micro hardness of NiCrBSi 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
659	Mechanical and wear properties of Mg/Mo nanocomposites. <i>Metallic Materials</i> , <b>2020</b> , 57, 237-246	1.3	2
658	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
657	Role of Matrix Microstructure in Governing the Mechanical Behavior and Corrosion Response of Two Magnesium Alloy Metal Matrix Composites. <i>Jom</i> , <b>2020</b> , 72, 2882-2891	2.1	2
656	18-FDG PET-CT should be included in preoperative staging of gall bladder cancer. <i>European Journal of Surgical Oncology</i> , <b>2020</b> , 46, 1711-1716	3.6	10
655	Terahertz Sensing with Optimized Q/Veff Metasurface Cavities. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1902025	8.1	31
654	Is Lu-PSMA an effective treatment modality for mCRPC patients with bone and visceral metastasis?. <i>Hellenic Journal of Nuclear Medicine</i> , <b>2020</b> , 23, 312-320	0.6	0

653	Accumulative Roll Bonding Review. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3627	2.6	38
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649	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
648	Evaluation of wear resistance of magnesium/glass microballoon syntactic foams for engineering/biomedical applications. <i>Ceramics International</i> , <b>2019</b> , 45, 9302-9305	5.1	26
647	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
646	The role of abrasive particle size on erosion characteristics of stainless steel. <i>Engineering Failure Analysis</i> , <b>2019</b> , 97, 844-853	3.2	14
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634	Central Composite Experimental Design Applied to the Dry Sliding Wear Behavior of Mg/Mica Composites. <i>Journal of Tribology</i> , <b>2019</b> , 141,	1.8	8
633	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
632	Magnesium nanocomposites: An overview on time-dependent plastic (creep) deformation. <i>Defence Technology</i> , <b>2019</b> , 15, 123-131	3	10
631	A Novel Turning-Induced-Deformation Based Technique to Process Magnesium Alloys. <i>Metals</i> , <b>2019</b> , 9, 841	2.3	7
630	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
629	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
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623	Evaluation of response in patients of metastatic castration resistant prostate cancer undergoing systemic radiotherapy with lutetium <sup>177</sup> -prostate-specific membrane antigen: A comparison between response evaluation criteria in solid tumors, positron-emission tomography response criteria in solid tumors, European organization for research and treatment of cancer, and MDA	1	9
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612	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
611	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
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513	The Promise of Magnesium Based Materials in Electromagnetic Shielding <b>2017</b> , 2,		4
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508	Enhancing the Tensile Response of Magnesium Through Simultaneous Addition of Aluminium and Alumina Nanoparticulates. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 253-257	0.3	1
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504	Sharp Toroidal Resonances in Planar Terahertz Metasurfaces. <i>Advanced Materials</i> , <b>2016</b> , 28, 8206-8211	24	115
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444	Microstructure and Mechanical Properties of a Magnesium-Aluminium-Erbium Alloy <b>2015</b> , 445-449		1
443	Modeling and simulation of SVC for reactive power control in high penetration wind power system <b>2015</b> ,		2
442	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		
441	Synthesis and Characterization of Novel Magnesium Materials Containing Copper-Titanium Based (Cu <sub>50</sub> Ti <sub>50</sub> ) Amorphous Alloy Particles <b>2015</b> , 387-390		
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4 <sup>18</sup>	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
4 <sup>17</sup>	Detection of power quality disturbances using symbolic dynamics <b>2014</b> ,		2
4 <sup>16</sup>	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
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4 <sup>14</sup>	Development of extremely ductile lead-free Sn-Al solders for futuristic electronic packaging applications. <i>Electronic Materials Letters</i> , <b>2014</b> , 10, 515-524	2.9	17
4 <sup>13</sup>	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
4 <sup>12</sup>	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
4 <sup>11</sup>	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
4 <sup>10</sup>	Slurry erosion characteristics and erosion mechanisms of stainless steel. <i>Tribology International</i> , <b>2014</b> , 79, 1-7	4.9	73
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4 <sup>02</sup>	Interface tailoring to enhance mechanical properties of carbon nanotube reinforced magnesium composites. <i>Materials &amp; Design</i> , <b>2014</b> , 60, 490-495		69

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379	The opposing nanoscale and macroscale effects of selected nanoparticle addition to AZ91/ZK60A hybrid magnesium alloy. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	2
378	Effect of Addition of Nano-Al <sub>2</sub> O <sub>3</sub> 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
377	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
376	Tensile and Compressive Responses of Ceramic and Metallic Nanoparticle Reinforced Mg Composites. <i>Materials</i> , <b>2013</b> , 6, 1826-1839	3.5	26
375	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
374	Nanoparticle Addition to Enhance the Mechanical Response of Magnesium Alloys Including Nanoscale Deformation Mechanisms <b>2013</b> , 283-288		
373	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
372	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
371	The role of aluminum oxide particulate reinforcements on cyclic fatigue and final fracture behavior of a novel magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 532, 196-211	5.3	12
370	Differentiating the mechanical response of hybridized Mg nano-composites as a function of strain rate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 545, 51-60	5.3	10
369	An investigation into the capability of unconventional amount of aluminum and nano-alumina to alter the mechanical response of magnesium. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 234-240	4.3	5
368	Influence of nano-sized carbon nanotube reinforcements on tensile deformation, cyclic fatigue, and final fracture behavior of a magnesium alloy. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 3621-3638	4.3	21
367	Power system harmonic analysis in wind power plants [Part I: Study methodology and techniques <b>2012</b> ,		15
366	Sliding wear behaviour of AZ31B magnesium alloy and nano-composite. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, 60-65	3.3	47

365	Al <sub>2</sub> O <sub>3</sub> nanoparticle addition to concentrated magnesium alloy AZ81: Enhanced ductility. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 545, 12-18	5-7	26
364	Power system harmonic analysis in wind power plants &#x2014; Part II: Practical experiences and mitigation methods <b>2012</b> ,		3
363	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
362	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
361	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
360	Deformation behaviour of Mg/Y <sub>2</sub> O <sub>3</sub> nanocomposite at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 551, 222-230	5-3	23
359	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
358	Nanoparticle interactions with the magnesium alloy matrix during physical deformation: Tougher nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 137, 472-482	4-4	4
357	Size-effects in textural strengthening of hierarchical magnesium nano-composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 556, 855-863	5-3	11
356	High temperature tensile response of nano-Al <sub>2</sub> O <sub>3</sub> reinforced AZ31 nanocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 558, 278-284	5-3	16
355	Investigation on the Mechanical Properties of Mg-Al Alloys (AZ41 and AZ51) and Its Composites. <i>Metals</i> , <b>2012</b> , 2, 313-328	2-3	6
354	TiC Nanoparticle Addition to Enhance the Mechanical Response of Hybrid Magnesium Alloy. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-9	3-5	8
353	The Overall Effects of AlN Nanoparticle Addition to Hybrid Magnesium Alloy AZ91/ZK60A. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-8	3-5	3
352	Influence of Nickel Particle Reinforcement on Cyclic Fatigue and Final Fracture Behavior of a Magnesium Alloy Composite. <i>Metals</i> , <b>2012</b> , 2, 143-169	2-3	11
351	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
350	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
349	Al <sub>2</sub> O <sub>3</sub> Nanoparticle Addition to Commercial Magnesium Alloys: Multiple Beneficial Effects. <i>Nanomaterials</i> , <b>2012</b> , 2, 147-162	5-4	25
348	Nanoscale Electro Negative Interface Density (NENID) in magnesium alloy nanocomposites: Effect on mechanical properties. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2-3	3

347	Characteristics of NiNb-based metallic amorphous alloys for hydrogen-related energy applications. <i>Applied Energy</i> , <b>2012</b> , 90, 94-99	10.7	33
346	Enhancing tensile and compressive strength of magnesium using ball milled Al+CNT reinforcement. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 290-298	8.6	49
345	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
344	Tribological Properties of Magnesium Nano-Alumina Composites under Nano-Graphite Lubrication. <i>Tribology Transactions</i> , <b>2012</b> , 55, 334-344	1.8	20
343	Structural, Physical and Mechanical Properties of Mg-Al Alloys Processed under CO <sub>2</sub> Atmosphere. <i>Advanced Materials Research</i> , <b>2012</b> , 545, 247-250	0.5	1
342	The tensile deformation and fracture behavior of a magnesium alloy nanocomposite reinforced with nickel. <i>Advances in Materials Research (South Korea)</i> , <b>2012</b> , 1, 169-182		2
341	Si <sub>3</sub> N <sub>4</sub> Nanoparticle Addition to Concentrated Magnesium Alloy AZ81: Enhanced Tensile Ductility and Compressive Strength. <i>ISRN Nanomaterials</i> , <b>2012</b> , 2012, 1-8		2
340	Effect of Nano-Alumina and Copper Micron Size Particulates on Microstructure and Mechanical Properties of Magnesium Alloy AZ31 <b>2012</b> , 187-189		1
339	Effect of Ca Addition on the Microstructural and Mechanical Properties of AZ51/1.5Al <sub>2</sub> O <sub>3</sub> Magnesium Nanocomposite <b>2012</b> , 201-206		
338	Addition of CNTs to enhance tensile/compressive response of magnesium alloy ZK60A. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 180-188	8.4	66
337	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
336	Enhanced mechanical response of magnesium alloy ZK60A containing Si <sub>3</sub> N <sub>4</sub> nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 2093-2100	8.4	26
335	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
334	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
333	The synergistic ability of Al <sub>2</sub> O <sub>3</sub> nanoparticles to enhance mechanical response of hybrid alloy AZ31/AZ91. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7572-7578	5.7	31
332	Development of new magnesium based alloys and their nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 8522-8529	5.7	66
331	<b>2011</b> ,		152
330	The ability of cast composite technology to enhance ductility of wrought magnesium and alloys. <i>International Journal of Materials Research</i> , <b>2011</b> , 102, 76-81	0.5	1

329 Appendix A: Experimental Techniques in Microwave Processing **2011**, 183-197

328 Appendix B: List of Suppliers of Microwave Processing Equipment **2011**, 199-220

327 Appendix C: List of Research Groups in Metal-Based Microwave Processing **2011**, 221-222

326 Microwave Heating **2011**, 43-63

1

325 Microwave Heating of Metal-Based Materials **2011**, 65-157

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324 Microwave Heating of Other Materials **2011**, 159-182

323 Development and Characterization of New AZ41 and AZ51 Magnesium Alloys **2011**, 553-558

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310	On the Influence of Carbon Nanotubes and Processing on Tensile Response and Fracture Behavior of a Magnesium Alloy. <i>Advanced Materials Research</i> , <b>2011</b> , 410, 133-141	0.5	
309	Processing and Properties of Amorphous Magnesium-Based Eco-Materials. <i>Materials Science Forum</i> , <b>2011</b> , 695, 186-189	0.4	2
308	Carbon Nanotube Addition to Simultaneously Enhance Strength and Ductility of Hybrid AZ31/AA5083 Alloy. <i>Materials Sciences and Applications</i> , <b>2011</b> , 02, 20-29	0.3	7
307	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
306	Influence of Carbon Nanotubes and Processing on Cyclic Fatigue and Final Fracture Behavior of a Magnesium Alloy. <i>Advanced Materials Research</i> , <b>2011</b> , 410, 3-16	0.5	
305	Introduction to Microwaves <b>2011</b> , 1-23		
304	Adding TiC Nanoparticles to Magnesium Alloy ZK60A for Strength/Ductility Enhancement. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-9	3.2	25
303	Enhancing overall tensile behavior or ductility of AZ91D using nano- Al <sub>2</sub> O <sub>3</sub> and heat treatment. <i>Metallic Materials</i> , <b>2011</b> , 49, 197-205	1.3	2
302	Development and Characterization of New AZ41 and AZ51 Magnesium Alloys <b>2011</b> , 553-558		2
301	Microwave processing of magnesium based materials: A review. <i>Metallic Materials</i> , <b>2011</b> , 49, 219-231	1.3	2
300	Neural Network Based Indexing and Recognition of Power Quality Disturbances. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , <b>2011</b> , 9, 227	1.4	2
299	Improving Compressive Strength and Oxidation Resistance of AZ31B Magnesium Alloy by Addition of Nano-Al <sub>2</sub> O <sub>3</sub> Particulates and Ca. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 883-896	2.7	20
298	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
297	Magnesium Alloys <b>2010</b> , 39-85		2
296	Fundamentals of Metal Matrix Composites <b>2010</b> , 87-111		2
295	Kinetics of Hot Deformation in Mg/Nano-Al <sub>2</sub> O <sub>3</sub> Composite. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 181-194	2.7	2
294	Magnesium and Aluminium Carbon Nanotube Composites. <i>Key Engineering Materials</i> , <b>2010</b> , 425, 245-261	0.4	7



293	Enhancing Uniform, Nonuniform, and Total Failure Strain of Aluminum by Using SiC at Nanolength Scale. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2010</b> , 132,	1.8	9
292	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
291	Improving tensile and compressive strengths of magnesium by blending it with aluminium. <i>Materials Science and Technology</i> , <b>2010</b> , 26, 115-120	1.5	10
290	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
289	Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 490, 110-117	5.7	7
288	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
287	Mechanical property retention in remelted microparticle to nanoparticle AZ31/Al <sub>2</sub> O <sub>3</sub> composites. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 600-606	5.7	21
286	Enhancing the Performance of Magnesium Alloy AZ31 by Integration with Millimeter Length Scale Aluminium-based Cores. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 1099-1117	2.7	11
285	Appendix: List of Some Magnesium Suppliers <b>2010</b> , 249-249		
284	Magnesium Composites <b>2010</b> , 113-205		1
283	StrengthDuctility Combinations of Magnesium-Based Materials <b>2010</b> , 233-248		
282	Synthesis Techniques for Magnesium-Based Materials <b>2010</b> , 13-38		
281	Characteristics of aluminum and magnesium based nanocomposites processed using hybrid microwave sintering. <i>Journal of Microwave Power and Electromagnetic Energy</i> , <b>2010</b> , 44, 14-27	1.4	35
280	Corrosion Aspects of Magnesium-Based Materials <b>2010</b> , 207-231		2
279	Introduction to Magnesium <b>2010</b> , 1-12		0
278	Enhancing Mechanical Properties of AZ31 Magnesium Alloy Through Simultaneous Addition of Aluminum and Nano-Al <sub>2</sub> O <sub>3</sub> <b>2010</b> ,		1
277	The effect of process parameters on machining of magnesium nano alumina composites through EDM. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2010</b> , 46, 1035-1042	3.2	47
276	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

275	Using Microwave-Assisted Powder Metallurgy Route and Nano-size Reinforcements to Develop High-Strength Solder Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2010</b> , 19, 335-341	1.6	39
274	Tailoring the tensile/compressive response of magnesium alloy ZK60A using Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1170-1178	4.3	29
273	Mechanical characteristics of pure Mg and a Mg/Y <sub>2</sub> O <sub>3</sub> nanocomposite in the 25-250 °C temperature range. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3058-3066	4.3	15
272	A DSC study on the precipitation kinetics of cryorolled Al 6063 alloy. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 122, 188-193	4.4	48
271	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, 5550-5556	5.3	15
270	Sliding wear behaviour of calcium containing AZ31B/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Wear</i> , <b>2010</b> , 269, 473-479	3.5	37
269	Hierarchical magnesium nano-composites for enhanced mechanical response. <i>Acta Materialia</i> , <b>2010</b> , 58, 6104-6114	8.4	95
268	Study of Burn Rate Suppressants in AP-Based Composite Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2010</b> , 35, 53-56	1.7	20
267	Performance Comparison of Median and Wiener Filter in Image De-noising. <i>International Journal of Computer Applications</i> , <b>2010</b> , 12, 27-31	1.1	22
266	Utilizing energy efficient microwave sintering to significantly enhance the tensile response of a lead-free solder. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 015404	3	1
265	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
264	Micro-Engineering the Stressed Macro-Interface and Enhancing the Performance of Mg/Al Bimetal Macrocomposites. <i>Materials Science Forum</i> , <b>2009</b> , 618-619, 221-225	0.4	2
263	Enhancing corrosion resistance of Mg alloy AZ31B in NaCl solution using alumina reinforcement at nanolength scale. <i>Corrosion Engineering Science and Technology</i> , <b>2009</b> , 44, 381-383	1.7	4
262	Selective Enhancement of Tensile/Compressive Strength and Ductility of AZ31 Magnesium Alloy via Nano-Al <sub>2</sub> O <sub>3</sub> Reinforcement Integration Method Alteration. <i>Materials Science Forum</i> , <b>2009</b> , 618-619, 423-427	0.4	5
261	Using microwaves to synthesize pure aluminum and metastable Al/Cu nanocomposites with superior properties. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 4890-4895	5.3	30
260	Simultaneously enhanced tensile and compressive response of AZ31B nanoAl <sub>2</sub> O <sub>3</sub> /AA5052 macrocomposite. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 4860-4873	4.3	16
259	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
258	Effect of Amount of Cu on the Intermetallic Layer Thickness Between Sn-Cu Solders and Cu Substrates. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 2479-2488	1.9	11

257	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
256	Enhancing tensile/compressive response of magnesium alloy AZ31 by integrating with Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 527, 162-168	5.3	73
255	Using Mg and Mg/nanoAl <sub>2</sub> O <sub>3</sub> concentric alternating macro-ring material design to enhance the properties of magnesium. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 438-444	8.6	22
254	Hot workability and deformation mechanisms in Mg/nanoAl <sub>2</sub> O <sub>3</sub> composite. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1070-1076	8.6	77
253	Integrating copper at the nanometer length scale with Sn/Ag solder to develop high performance nanocomposites. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 1258-1264	1.5	5
252	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
251	Interfacial intermetallic growth and shear strength of lead-free composite solder joints. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 473, 100-106	5.7	114
250	Development of high strength Sn/Cu solder using copper particles at nanolength scale. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 476, 199-206	5.7	41
249	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
248	Enhancement of compressive strength and failure strain in AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 482, 73-80	5.7	24
247	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
246	DFT Study on Nano Structures of Sn/CNT Complex for Potential Li-Ion Battery Application. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14015-14019	3.8	30
245	Effects of sintering and its type on microstructural and tensile response of pure tin. <i>Powder Metallurgy</i> , <b>2009</b> , 52, 105-110	1.9	6
244	Development of Lead-Free Nanocomposite Solders Using Oxide Based Reinforcement <b>2008</b> ,		2
243	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
242	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
241	Solidification processed Mg/Al bimetal macrocomposite: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 461, 200-208	5.7	69
240	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

239	Corrosion behaviour of MgCu and MgMo composites in 3.5% NaCl. <i>Corrosion Science</i> , <b>2008</b> , 50, 2423-2428	8	45
238	Processing, Microstructure, and Properties of a Mg/Al Bimetal Macrocomposite. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 2567-2584	2.7	25
237	Development of lead-free Sn0.7Cu/Al2O3nanocomposite solders with superior strength. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 095403	3	60
236	Improving Compressive Failure Strain and Work of Fracture of Magnesium by Integrating it with Millimeter Length Scale Aluminum. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 1297-1307	2.7	21
235	Effect of chloride ions on passivity of Mg based materials. <i>Corrosion Engineering Science and Technology</i> , <b>2008</b> , 43, 179-185	1.7	1
234	Use of interconnected reinforcement in magnesium for stiffness critical applications. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 213-220	1.5	3
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232	The Cyclic Deformation Behavior of MgZn2O3 Nanocomposites. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 2039-2050	2.7	14
231	Toughening mechanisms in Mg/Al macrocomposites: texture and interfacial mechanical interlocking. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 175402	3	20
230	Effect of Type of Reinforcement at Nanolength Scale on the Tensile Properties of Sn-0.7Cu Solder Alloy <b>2008</b> ,		8
229	Suppressing intermetallic compound growth in SnAgCu solder joints with addition of carbon nanotubes <b>2008</b> ,		4
228	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
227	Symmetric Edge Cracks in an Orthotropic Strip Under Normal Loading. <i>International Journal of Fracture</i> , <b>2008</b> , 153, 77-84	2.3	9
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223	Enhancing the Mechanical Response of a Lead-Free Solder Using an Energy-Efficient Microwave Sintering Route. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 860-866	1.9	17
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221	An investigation of hot deformation response of particulate-reinforced magnesium+9% titanium composite. <i>Materials &amp; Design</i> , <b>2008</b> , 29, 622-627		20
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219	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
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217	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
216	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
215	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
214	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
213	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
212	Microwave synthesis and characterization of metastable (Al/Ti) and hybrid (Al/Ti+SiC) composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 452-453, 61-69	5.3	53
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208	Development and characterization of magnesium composites containing nano-sized silicon carbide and carbon nanotubes as hybrid reinforcements. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 10040-10046	4.3	57
207	Effect of Nano-ZrO <sub>2</sub> Particulates Reinforcement on Microstructure and Mechanical Behavior of Solidification Processed Elemental Mg. <i>Journal of Composite Materials</i> , <b>2007</b> , 41, 2533-2543	2.7	33
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199	Improving mechanical performance of Al by using Ti as reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2007</b> , 38, 1010-1018	8.4	44
198	Corrosion behavior of SiC reinforced magnesium composites. <i>Corrosion Science</i> , <b>2007</b> , 49, 711-725	6.8	65
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196	Lead-free solder reinforced with multiwalled carbon nanotubes. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 1518-1522	1.9	74
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194	Effect of Presence of Multi-Walled Carbon Nanotubes on the Creep Properties of Sn-Ag-Cu Solder <b>2006</b> , 161		1
193	Synthesis of Magnesium Reinforced With Nano-Size Y <sub>2</sub> O <sub>3</sub> Using Disintegrated Melt Deposition Technique <b>2006</b> , 433		
192	Effect of the Presence of Continuous/ Discontinuous/ Hybrid Reinforcement on the Damping Characteristics of Pure Aluminium Matrix. <i>Solid State Phenomena</i> , <b>2006</b> , 111, 71-74	0.4	1
191	Effect of Hybrid Length Scales (Micro + Nano) of SiC Reinforcement on the Properties of Magnesium. <i>Solid State Phenomena</i> , <b>2006</b> , 111, 91-94	0.4	28
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90	Determination of energy dissipation in Mg/SiC formulations using a new method of suspended beam coupled with circle fit approach. <i>Scripta Materialia</i> , <b>2001</b> , 45, 1031-1037	5.6	9
89	Exceeding average rule of mixtures stiffness in composite materials with interconnected fibres as reinforcement. <i>Materials Science and Technology</i> , <b>2001</b> , 17, 1465-1471	1.5	3
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87	Processing, microstructure, and properties of Mg/SiC composites synthesised using fluxless casting process. <i>Materials Science and Technology</i> , <b>2001</b> , 17, 823-832	1.5	19
86	Interrelationship between matrix microhardness and ultimate tensile strength of discontinuous particulate-reinforced aluminum alloy composites. <i>Materials Letters</i> , <b>2001</b> , 51, 255-261	3.3	38
85	Development and characterization of an aluminum alloy containing interconnected-wires as reinforcement. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 315, 203-210	5.7	9
84	Synthesis of free standing, one dimensional, Al/SiC based functionally gradient materials using gradient slurry disintegration and deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 276, 210-217	5.3	11
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5	An Insight into Use of Hollow Fly Ash Particles on The Properties of Magnesium	175-176	1
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