Gururaj Parande

List of Publications by Year
in descending order

64	1,788	226546 25	274767 41
papers	citations	h-index	g-index

64	64	64	1426
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of Shallow (â˜’20 Â°C) and Deep Cryogenic Treatment (â˜’196 Â°C) to Enhance the Properties of a Mg/2wt.%CeO2 Nanocomposite. Technologies, 2024, 12, 14.	5.3	3
2	Scope of magnesium ceria nanocomposites for mandibular reconstruction: Degradation and biomechanical evaluation using a 3-dimensional finite element analysis approach. Journal of the Mechanical Behavior of Biomedical Materials, 2024, 152, 106424.	3.1	0
3	An Investigation into the Effect of Length Scale of Reinforcement on the Cryogenic Response of a Mg/2wt.%CeO2 Composite. Micro, 2024, 4, 170-184.	2.0	1
4	An Investigation into the Effect of Length Scale (Nano to Micron) of Cerium Oxide Particles on the Mechanical and Flammability Response of Magnesium. Journal of Materials Engineering and Performance, 2023, 32, 2710-2722.	2.4	5
5	An experimental investigation on the influence of hybrid turning induced deformation parameters on the properties of Mg-Zn-Sr-Dy alloy. Journal of Materials Processing Technology, 2023, 312, 117845.	6.4	2
6	Effect of Varying Hot Extrusion Temperatures on the Properties of a Sinterless Turning Induced Deformation Processed Eco-Friendly Mg-Zn-Ca Alloy. Crystals, 2023, 13, 3.	2.3	2
7	Enhancing the Physical, Thermal, and Mechanical Responses of a Mg/2wt.%CeO2 Nanocomposite Using Deep Cryogenic Treatment. Metals, 2023, 13, 660.	2.4	6
8	Influence of Laser Treatment Medium on the Surface Topography Characteristics of Laser Surface-Modified Resorbable Mg3Zn Alloy and Mg3Zn1HA Nanocomposite. Metals, 2023, 13, 850.	2.4	2
9	Compositional Tailoring of Mgâ€“2Znâ€“1Ca Alloy Using Manganese to Enhance Compression Response and In-Vitro Degradation. Materials, 2022, 15, 810.	3.0	9
10	Tribological Response of Magnesium/Glass Microballoon Syntactic Foams. Minerals, Metals and Materials Series, 2022, , 311-320.	0.0	0
11	Processing, microstructure and mechanical response of a shell (Magnesium) â€“ Core (MagnesiumÂ+ÂLithium) hybrid composite. Materials Today: Proceedings, 2022, , .	1.9	1
12	Machining of Y ₂ O ₃ reinforced magnesium rare earth alloys using wire electrical discharge turning process. Machining Science and Technology, 2022, 26, 160-182.	2.6	2
13	Interfacial characterization and its influence on the corrosion behavior of Mg-SiO2 nanocomposites. Acta Materialia, 2022, 230, 117840.	8.0	13
14	Tensile Response of Al-Based Nanocomposites. , 2021, , 313-324.		2
15	Development of rare-earth oxide reinforced magnesium nanocomposites for orthopaedic applications: A mechanical/immersion/biocompatibility perspective. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104162.	3.1	35
16	Using low-temperature sinterless powder method to develop exceptionally high amount of zinc containing Mgâ€“Znâ€“Ca alloy and Mgâ€“Znâ€“Ca/SiO2 nanocomposite. Journal of Alloys and Compounds, 2021, 853, 156957.	5.7	12
17	Metal Matrix Syntactic Composites. , 2021, , 109-120.		1
18	Eco-friendly Metal Matrix Composites. , 2021, , 140-159.		1

#	Article	IF	Citations
19	Development of Eco-Magnesium Based Composite with Enhanced Mechanical, Damping and Ignition Properties. Recent Patents on Engineering, 2021, 14, 348-356.	0.4	1
20	Effect of samarium oxide nanoparticles on degradation and invitro biocompatibility of magnesium. Materials Today Communications, 2021, 26, 102171.	2.0	14
21	Development of Lightweight Magnesium/Glass Micro Balloon Syntactic Foams Using Microwave Approach with Superior Thermal and Mechanical Properties. Metals, 2021, 11, 827.	2.4	16
22	Studies on surface morphology of under liquid laser ablated magnesium alloy. Materials Today: Proceedings, 2021, 46, 1071-1076.	1.9	3
23	Strength retention, corrosion control and biocompatibility of Mgâ€“Znâ€“Si/HA nanocomposites. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103584.	3.1	56
24	A study on the effect of low-cost eggshell reinforcement on the immersion, damping and mechanical properties of magnesiumâ€“zinc alloy. Composites Part B: Engineering, 2020, 182, 107650.	12.1	56
25	In-Vitro Degradation of Hollow Silica Reinforced Magnesium Syntactic Foams in Different Simulated Body Fluids for Biomedical Applications. Metals, 2020, 10, 1583.	2.4	12
26	A New Method to Lightweight Magnesium Using Syntactic Composite Core. Applied Sciences (Switzerland), 2020, 10, 4773.	2.6	9
27	A Novel Method of Light Weighting Aluminium Using Magnesium Syntactic Composite Core. Crystals, 2020, 10, 917.	2.3	12
28	Hollow silica reinforced magnesium nanocomposites with enhanced mechanical and biological properties with computational modeling analysis for mandibular reconstruction. International Journal of Oral Science, 2020, 12, 31.	8.7	24
29	Drill Hole Orientation: Its Role and Importance on the Compression Response of Pure Magnesium. Applied Sciences (Switzerland), 2020, 10, 7047.	2.6	3
30	A new method to lightweight and improve strength to weight ratio of magnesium by creating a controlled defect. Journal of Materials Research and Technology, 2020, 9, 3664-3675.	5.9	18
31	Microstructure and Mechanical Behavior of Hot Extruded Aluminum/Tin-Bismuth Composites Produced by Powder Metallurgy. Applied Sciences (Switzerland), 2020, 10, 2812.	2.6	10
32	Improving Mechanical, Thermal and Damping Properties of NiTi (Nitinol) Reinforced Aluminum Nanocomposites. Journal of Composites Science, 2020, 4, 19.	3.1	15
33	Study of In Vitro Biodegradation Behavior of Mgâ€“2.5Znâ€“xES Composite. Minerals, Metals and Materials Series, 2020, , 253-258.	0.0	0
34	Improving the friction and wear characteristics of AZ31 alloy with the addition of Al₂O₃ nanoparticles. Materials Research Express, 2019, 6, 126505.	1.7	11
35	Evaluation of wear resistance of magnesium/glass microballoon syntactic foams for engineering/biomedical applications. Ceramics International, 2019, 45, 9302-9305.	4.9	47
36	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. Composites Part B: Engineering, 2019, 164, 485-492.	12.1	69

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37	The Potential of Magnesium Based Materials in Mandibular Reconstruction. Metals, 2019, 9, 302.	2.4	45
38	Significantly enhancing the strengthÂ+ ductility combination of Mg-9Al alloy using multi-walled carbon nanotubes. Journal of Alloys and Compounds, 2019, 790, 974-982.	5.7	39
39	The Mechanical and Thermal Response of Shape Memory Alloy-Reinforced Aluminum Nanocomposites. Minerals, Metals and Materials Series, 2019, , 51-62.	0.0	1
40	Role of Rare Earth Oxide Reinforcements in Enhancing the Mechanical, Damping and Ignition Resistance of Magnesium. Minerals, Metals and Materials Series, 2019, , 115-124.	0.0	0
41	Bioresorbable Nano-Hydroxyapatite Reinforced Magnesium Alloplastic Bone Substitute for Biomedical Applications: A Study. Minerals, Metals and Materials Series, 2019, , 71-82.	0.0	5
42	Utilizing Lowâ€€Cost Eggshell Particles to Enhance the Mechanical Response of Mgâ€“2.5Zn Magnesium Alloy Matrix. Advanced Engineering Materials, 2018, 20, 1700919.	3.5	33
43	Synthesis and Mechanical Response of NiTi SMA Nanoparticle Reinforced Mg Composites Synthesized through Microwave Sintering Process. Materials Today: Proceedings, 2018, 5, 28203-28210.	1.9	18
44	Enhancing Mechanical Response of Monolithic Magnesium Using Nano-NiTi (Nitinol) Particles. Metals, 2018, 8, 1014.	2.4	42
45	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. Ceramics International, 2018, 44, 15035-15043.	4.9	50
46	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. Journal of Alloys and Compounds, 2018, 762, 398-408.	5.7	74
47	Enhancing the Hardness and Compressive Response of Magnesium Using Complex Composition Alloy Reinforcement. Metals, 2018, 8, 276.	2.4	20
48	Magnesium-Î²-Tricalcium Phosphate Composites as a Potential Orthopedic Implant: A Mechanical/Damping/Immersion Perspective. Metals, 2018, 8, 343.	2.4	33
49	Investigation on dry sliding wear behavior of Mg/BN nanocomposites. Journal of Magnesium and Alloys, 2018, 6, 263-276.	13.1	61
50	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. Journal of Alloys and Compounds, 2017, 695, 3612-3620.	5.7	51
51	Effect of reinforcement concentration on the properties of hot extruded Al-Al2O3 composites synthesized through microwave sintering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 60-69.	5.6	114
52	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticulates. Journal of Materials Research, 2017, 32, 2169-2178.	2.6	37
53	Enhanced performance of nano-sized SiC reinforced Al metal matrix nanocomposites synthesized through microwave sintering and hot extrusion techniques. Progress in Natural Science: Materials International, 2017, 27, 606-614.	4.5	147
54	Using lanthanum to enhance the overall ignition, hardness, tensile and compressive strengths of Mg-0.5Zr alloy. Journal of Rare Earths, 2017, 35, 723-732.	4.9	26

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55	Improved properties of Alâ€“Si₃N₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. RSC Advances, 2017, 7, 34401-34410.	3.7	54
56	Using B4C Nanoparticles to Enhance Thermal and Mechanical Response of Aluminum. Materials, 2017, 10, 621.	3.0	36
57	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. Materials, 2017, 10, 997.	3.0	51
58	Selective Laser Melting of Magnesium and Magnesium Alloy Powders: A Review. Metals, 2017, 7, 2.	2.4	179
59	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm2O3 Nanoparticles. Metals, 2017, 7, 357.	2.4	53
60	Enhancing significantly the damping response of Mg using hollow glass microspheres while simultaneously reducing weight. Advanced Materials Letters, 2017, 8, 1171-1177.	0.7	11
61	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticulates. International Journal of Materials Research, 2016, 107, 1091-1099.	0.4	67
62	An Insight into Use of Hollow Fly Ash Particles on The Properties of Magnesium. , 2016, , 175-176.		1
63	An Insight Into Use of Hollow Fly Ash Particles on the Properties of Magnesium. , 2016, , 175-176.		1
64	Dry sliding wear of epoxy/cenosphere syntactic foams. Tribology International, 2015, 92, 425-438.	6.1	66