

# Vyasraj Manakari

## List of Publications by Year in descending order

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46  
papers

1,522  
citations

279798

23  
h-index

315739

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing, microstructure and mechanical response of a shell (Magnesium) " Core (Magnesium+Lithium) hybrid composite. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	1
2	Tensile Response of Al-Based Nanocomposites. , 2021, , 313-324.		2
3	Development of rare-earth oxide reinforced magnesium nanocomposites for orthopaedic applications: A mechanical/immersion/biocompatibility perspective. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 114, 104162.	3.1	32
4	Using low-temperature sinterless powder method to develop exceptionally high amount of zinc containing Mg"Zn"Ca alloy and Mg"Zn"Ca/SiO <sub>2</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , 2021, 853, 156957.	5.5	11
5	Metal Matrix Syntactic Composites. , 2021, , 109-120.		1
6	Eco-friendly Metal Matrix Composites. , 2021, , 140-159.		1
7	Development of Eco-Magnesium Based Composite with Enhanced Mechanical, Damping and Ignition Properties. <i>Recent Patents on Engineering</i> , 2021, 14, 348-356.	0.4	0
8	Effect of samarium oxide nanoparticles on degradation and invitro biocompatibility of magnesium. <i>Materials Today Communications</i> , 2021, 26, 102171.	1.9	13
9	Development of Lightweight Magnesium/Glass Micro Balloon Syntactic Foams Using Microwave Approach with Superior Thermal and Mechanical Properties. <i>Metals</i> , 2021, 11, 827.	2.3	14
10	Strength retention, corrosion control and biocompatibility of Mg"Zn"Si/HA nanocomposites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103584.	3.1	50
11	A study on the effect of low-cost eggshell reinforcement on the immersion, damping and mechanical properties of magnesium"zinc alloy. <i>Composites Part B: Engineering</i> , 2020, 182, 107650.	12.0	52
12	In-Vitro Degradation of Hollow Silica Reinforced Magnesium Syntactic Foams in Different Simulated Body Fluids for Biomedical Applications. <i>Metals</i> , 2020, 10, 1583.	2.3	10
13	A New Method to Lightweight Magnesium Using Syntactic Composite Core. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4773.	2.5	6
14	A Novel Method of Light Weighting Aluminium Using Magnesium Syntactic Composite Core. <i>Crystals</i> , 2020, 10, 917.	2.2	10
15	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> , 2020, 12, 31.	8.6	20
16	Drill Hole Orientation: Its Role and Importance on the Compression Response of Pure Magnesium. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7047.	2.5	3
17	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> , 2020, 9, 3664-3675.	5.8	15
18	Microstructure and Mechanical Behavior of Hot Extruded Aluminum/Tin-Bismuth Composites Produced by Powder Metallurgy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2812.	2.5	7

#	ARTICLE	IF	CITATIONS
19	Improving Mechanical, Thermal and Damping Properties of NiTi (Nitinol) Reinforced Aluminum Nanocomposites. <i>Journal of Composites Science</i> , 2020, 4, 19.	3.0	14
20	Evaluation of wear resistance of magnesium/glass microballoon syntactic foams for engineering/biomedical applications. <i>Ceramics International</i> , 2019, 45, 9302-9305.	4.8	43
21	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.	12.0	60
22	The Potential of Magnesium Based Materials in Mandibular Reconstruction. <i>Metals</i> , 2019, 9, 302.	2.3	41
23	The Mechanical and Thermal Response of Shape Memory Alloy-Reinforced Aluminum Nanocomposites. <i>Minerals, Metals and Materials Series</i> , 2019, , 51-62.	0.4	1
24	Role of Rare Earth Oxide Reinforcements in Enhancing the Mechanical, Damping and Ignition Resistance of Magnesium. <i>Minerals, Metals and Materials Series</i> , 2019, , 115-124.	0.4	0
25	Bioresorbable Nano-Hydroxyapatite Reinforced Magnesium Alloplastic Bone Substitute for Biomedical Applications: A Study. <i>Minerals, Metals and Materials Series</i> , 2019, , 71-82.	0.4	2
26	Utilizing Low-Cost Eggshell Particles to Enhance the Mechanical Response of Mg-2.5Zn Magnesium Alloy Matrix. <i>Advanced Engineering Materials</i> , 2018, 20, 1700919.	3.5	32
27	Synthesis and Mechanical Response of NiTi SMA Nanoparticle Reinforced Mg Composites Synthesized through Microwave Sintering Process. <i>Materials Today: Proceedings</i> , 2018, 5, 28203-28210.	1.8	18
28	Enhancing Mechanical Response of Monolithic Magnesium Using Nano-NiTi (Nitinol) Particles. <i>Metals</i> , 2018, 8, 1014.	2.3	39
29	Enhancement of thermal, mechanical, ignition and damping response of magnesium using nano-ceria particles. <i>Ceramics International</i> , 2018, 44, 15035-15043.	4.8	47
30	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 762, 398-408.	5.5	68
31	Enhancing the Hardness and Compressive Response of Magnesium Using Complex Composition Alloy Reinforcement. <i>Metals</i> , 2018, 8, 276.	2.3	19
32	Magnesium- $\beta$ -Tricalcium Phosphate Composites as a Potential Orthopedic Implant: A Mechanical/Damping/Immersion Perspective. <i>Metals</i> , 2018, 8, 343.	2.3	29
33	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3612-3620.	5.5	47
34	Effect of reinforcement concentration on the properties of hot extruded Al-Al <sub>2</sub> O <sub>3</sub> composites synthesized through microwave sintering process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 60-69.	5.6	104
35	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticulates. <i>Journal of Materials Research</i> , 2017, 32, 2169-2178.	2.6	35
36	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.	4.4	143

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37	Using lanthanum to enhance the overall ignition, hardness, tensile and compressive strengths of Mg-0.5Zr alloy. <i>Journal of Rare Earths</i> , 2017, 35, 723-732.	4.8	24
38	Improved properties of Al <sub>3</sub> N <sub>4</sub> nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , 2017, 7, 34401-34410.	3.6	51
39	Using B <sub>4</sub> C Nanoparticles to Enhance Thermal and Mechanical Response of Aluminum. <i>Materials</i> , 2017, 10, 621.	2.9	34
40	Enhancing the Ignition, Hardness and Compressive Response of Magnesium by Reinforcing with Hollow Glass Microballoons. <i>Materials</i> , 2017, 10, 997.	2.9	47
41	Selective Laser Melting of Magnesium and Magnesium Alloy Powders: A Review. <i>Metals</i> , 2017, 7, 2.	2.3	169
42	Significantly Enhancing the Ignition/Compression/Damping Response of Monolithic Magnesium by Addition of Sm <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Metals</i> , 2017, 7, 357.	2.3	52
43	Enhancing significantly the damping response of Mg using hollow glass microspheres while simultaneously reducing weight. <i>Advanced Materials Letters</i> , 2017, 8, 1171-1177.	0.6	10
44	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.	0.3	67
45	Effects of Hollow Fly-Ash Particles on the Properties of Magnesium Matrix Syntactic Foams: A Review. <i>Materials Performance and Characterization</i> , 2016, 5, MPC20150060.	0.3	12
46	Dry sliding wear of epoxy/cenosphere syntactic foams. <i>Tribology International</i> , 2015, 92, 425-438.	5.9	65