Sravya Tekumalla

List of Publications by Year
in descending order

34	846	567281 15	501196 28
papers	citations	h-index	g-index

35	35	35	685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing highly ductile magnesium alloys: current status and future challenges. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 194-281.	12.3	33
2	The role of the solidification structure on orientation-dependent hardness in stainless steel 316L produced by laser powder bed fusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142493.	5.6	20
3	Influence of micro Ti particles on resistance to cavitation erosion of Mg-xTi composites. Mechanics of Materials, 2021, 154, 103705.	3.2	10
4	Fatigue Behavior of Magnesium Matrix Composites. , 2021, , 344-359.		0
5	Mechanical properties and in vitro cytocompatibility of dense and porous Tiâ€“6Alâ€“4V ELI manufactured by selective laser melting technology for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104712.	3.1	27
6	Development from Alloys to Nanocomposite for an Enhanced Mechanical and Ignition Response in Magnesium. Metals, 2021, 11, 1792.	2.3	4
7	Recrystallization-based grain boundary engineering of 316L stainless steel produced via selective laser melting. Acta Materialia, 2020, 200, 366-377.	7.9	132
8	Development of Novel Lightweight Metastable Metalâ€“(Metal + Ceramic) Composites Using a New Powder Metallurgy Approach. Materials, 2020, 13, 3283.	2.9	4
9	EMI shielding of metals, alloys, and composites. , 2020, , 341-355.		14
10	Influence of turning speed on the microstructure and properties of magnesium ZK60 alloy pre-processed via turning-induced-deformation. Journal of Alloys and Compounds, 2020, 831, 154840.	5.5	11
11	Enhanced (X-band) microwave shielding properties of pure magnesium by addition of diamagnetic titanium micro-particulates. Journal of Alloys and Compounds, 2019, 770, 473-482.	5.5	28
12	A Novel Turning-Induced-Deformation Based Technique to Process Magnesium Alloys. Metals, 2019, 9, 841.	2.3	10
13	Preprocessing of powder to enhance mechanical and thermal response of bulk magnesium. Metal Powder Report, 2019, 74, 137-140.	0.1	7
14	Superior ductility in magnesium alloy-based nanocomposites: the crucial role of texture induced by nanoparticles. Journal of Materials Science, 2019, 54, 8711-8718.	3.7	19
15	Processing, Properties and Potential Applications of Magnesium Alloy-Based Nanocomposites: A Review. Minerals, Metals and Materials Series, 2019, , 3-18.	0.4	8
16	Fe3O4 Nanoparticle-Reinforced Magnesium Nanocomposites Processed via Disintegrated Melt Deposition and Turning-Induced Deformation Techniques. Metals, 2019, 9, 1225.	2.3	16
17	Enhancing Properties of Aerospace Alloy Elektron 21 Using Boron Carbide Nanoparticles as Reinforcement. Applied Sciences (Switzerland), 2019, 9, 5470.	2.5	4
18	Magnesium-iron micro-composite for enhanced shielding of electromagnetic pollution. Composites Part B: Engineering, 2019, 163, 150-157.	12.0	33

#	Article	IF	Citations
19	Effect of defects on electromagnetic interference shielding effectiveness of magnesium. Journal of Materials Science: Materials in Electronics, 2018, 29, 9728-9739.	2.2	15
20	An Engineered Magnesium Alloy Nanocomposite: Mechanisms Governing Microstructural Development and Mechanical Properties. Minerals, Metals and Materials Series, 2018, , 193-202.	0.4	4
21	A strong and deformable in-situ magnesium nanocomposite igniting above 1000â€‰Â°C. Scientific Reports, 2018, 8, 7038.	3.3	30
22	Investigations of Wear Response of Pure Mg and Mg-0.4 Ce-Y₂O₃/ZnO Nanocomposites Using a Single and Repeated Scratch Tests. Tribology Transactions, 2018, 61, 951-959.	2.0	8
23	Evolution of texture and asymmetry and its impact on the fatigue behaviour of an in-situ magnesium nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 61-69.	5.6	22
24	Using CaO Nanoparticles to Improve Mechanical and Ignition Response of Magnesium. Current Nanomaterials, 2018, 3, 44-51.	0.4	7
25	The dynamic compressive response of a high-strength magnesium alloy and its nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 702, 65-72.	5.6	23
26	An insight into ignition factors and mechanisms of magnesium based materials: A review. Materials and Design, 2017, 113, 84-98.	7.0	101
27	Cumulative Effect of Strength Enhancerâ€"Lanthanum and Ductility Enhancerâ€"Cerium on Mechanical Response of Magnesium. Metals, 2017, 7, 241.	2.3	11
28	Nano-ZnO Particlesâ€™ Effect in Improving the Mechanical Response of Mg-3Al-0.4Ce Alloy. Metals, 2016, 6, 276.	2.3	16
29	Enhancing overall static/dynamic/damping/ignition response of magnesium through the addition of lower amounts (<2%) of yttrium. Journal of Alloys and Compounds, 2016, 689, 350-358.	5.5	42
30	Influence of Cerium on the Deformation and Corrosion of Magnesium. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	1.4	19
31	Mechanical Properties of Magnesium-Rare Earth Alloy Systems: A Review. Metals, 2015, 5, 1-39.	2.3	164
32	Using Micro-Alloying (0.5Zr-0.4Ce) to Significantly Enhance Hardness, Tensile and Compressive Response of Magnesium. Materials Science Forum, 0, 928, 177-182.	0.3	0
33	The Promise of Sustainable Magnesium Composite Technology for Greener Future. Materials Science Forum, 0, 928, 56-61.	0.3	0
34	Introductory Chapter: An Insight into Fascinating Potential of Magnesium. , 0, , .		3