Ganesh Kumar Meenashisundaram

List of Publications by Year
in descending order

34 papers	1,012 citations	361388 20 h-index	434170 31 g-index
36 all docs	36 docs citations	36 times ranked	737 citing authors

#	Article	IF	Citations
1	High-density WCâ€“45Crâ€“18Ni cemented hard metal fabricated with binder jetting additive manufacturing. Virtual and Physical Prototyping, 2022, 17, 92-104.	10.4	4
2	A comparative investigation on the mechanical properties and cytotoxicity of Cubic, Octet, and TPMS gyroid structures fabricated by selective laser melting of stainless steel 316L. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105151.	3.1	27
3	A biomechanical evaluation on Cubic, Octet, and TPMS gyroid Ti6Al4V lattice structures fabricated by selective laser melting and the effects of their debris on human osteoblast-like cells. , 2022, 137, 212829.		13
4	Detailed assessments of tribological properties of binder jetting printed stainless steel and tungsten carbide infiltrated with bronze. Wear, 2021, 477, 203788.	3.1	12
5	Fabrication of TiÂ+ÂMg composites by three-dimensional printing of porous Ti and subsequent pressureless infiltration of biodegradable Mg. Materials Science and Engineering C, 2020, 108, 110478.	7.3	44
6	A study of Titanium and Magnesium particle-induced oxidative stress and toxicity to human osteoblasts. Materials Science and Engineering C, 2020, 117, 111285.	7.3	27
7	Binder Jetting Additive Manufacturing of High Porosity 316L Stainless Steel Metal Foams. Materials, 2020, 13, 3744.	2.9	34
8	Damage Detection in Glass/Epoxy Laminated Composite Plates Using Modal Curvature for Structural Health Monitoring Applications. Journal of Composites Science, 2020, 4, 185.	3.0	17
9	Fabrication of porous CoCrFeMnNi high entropy alloy using binder jetting additive manufacturing. Additive Manufacturing, 2020, 35, 101441.	3.0	16
10	The combined influence of elevated pre-sintering and subsequent bronze infiltration on the microstructures and mechanical properties of 420 stainless steel additively manufactured via binder jet printing. Additive Manufacturing, 2020, 34, 101266.	3.0	12
11	A new approach to synthesize nano-yttrium boride particle through metallothermic reduction process. Journal of Mining and Metallurgy, Section B: Metallurgy, 2020, 56, 77-87.	0.8	0
12	Additive manufacturing of magnesiumâ€“zincâ€“zirconium (ZK) alloys via capillary-mediated binderless three-dimensional printing. Materials and Design, 2019, 169, 107683.	7.0	62
13	A paradigm shift towards compositionally zero-sum binderless 3D printing of magnesium alloys via capillary-mediated bridging. Acta Materialia, 2019, 165, 294-306.	7.9	47
14	An investigation into interaction between magnesium powder and Ar gas: Implications for selective laser melting of magnesium. Powder Technology, 2018, 333, 252-261.	4.2	49
15	Hybrid Binder to Mitigate Feed Powder Segregation in the Inkjet 3D Printing of Titanium Metal Parts. Metals, 2018, 8, 322.	2.3	12
16	Lanthanum effect on improving CTE, damping, hardness and tensile response of Mg-3Al alloy. Journal of Alloys and Compounds, 2017, 695, 3612-3620.	5.5	47
17	Insight into cytotoxicity of Mg nanocomposites using MTT assay technique. Materials Science and Engineering C, 2017, 78, 647-652.	7.3	38
18	Enhancing the tensile and ignition response of monolithic magnesium by reinforcing with silica nanoparticulates. Journal of Materials Research, 2017, 32, 2169-2178.	2.6	35

#	Article	IF	Citations
19	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.	4.8	24
20	Enhancing significantly the damping response of Mg using hollow glass microspheres while simultaneously reducing weight. Advanced Materials Letters, 2017, 8, 1171-1177.	0.6	10
21	Reinforcing Low-Volume Fraction Nano-TiN Particulates to Monolithical, Pure Mg for Enhanced Tensile and Compressive Response. Materials, 2016, 9, 134.	2.9	13
22	Enhancing the hardness/compression/damping response of magnesium by reinforcing with biocompatible silica nanoparticulates. International Journal of Materials Research, 2016, 107, 1091-1099.	0.3	67
23	Micro-machinability of nanoparticle-reinforced Mg-based MMCs: an experimental investigation. International Journal of Advanced Manufacturing Technology, 2016, 87, 2165-2178.	3.0	36
24	Emerging Environment Friendly, Magnesium-Based Composite Technology for Present and Future Generations. Jom, 2016, 68, 1890-1901.	1.9	21
25	Effects of TiO2 powder morphology on the mechanical response of pure magnesium: 1D nanofibers versus 0D nanoparticulates. Journal of Alloys and Compounds, 2016, 664, 45-58.	5.5	14
26	Effects of Primary Processing Techniques and Significance of Hall-Petch Strengthening on the Mechanical Response of Magnesium Matrix Composites Containing TiO2 Nanoparticulates. Nanomaterials, 2015, 5, 1256-1283.	4.1	23
27	Selection of Alloying Elements and Reinforcements Based on Toxicity and Mechanical Properties. SpringerBriefs in Materials, 2015, , 35-67.	0.3	2
28	Insight into Designing Biocompatible Magnesium Alloys and Composites. SpringerBriefs in Materials, 2015, , .	0.3	21
29	Synthesis and characterization of high performance low volume fraction TiC reinforced Mg nanocomposites targeting biocompatible/structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 306-315.	5.6	61
30	Development of high performance Mgâ€"TiO2 nanocomposites targeting for biomedical/structural applications. Materials & Design, 2015, 65, 104-114.	5.1	82
31	Effects of Ti and TiB2 Nanoparticulates on Room Temperature Mechanical Properties and In Vitro Degradation of Pure Mg. , 2015, , 413-418.		2
32	Synthesis of Magnesium-Based Biomaterials. SpringerBriefs in Materials, 2015, , 17-34.	0.3	3
33	Enhancing overall tensile and compressive response of pure Mg using nano-TiB2 particulates. Materials Characterization, 2014, 94, 178-188.	4.4	82
34	Low volume fraction nano-titanium particulates for improving the mechanical response of pure magnesium. Journal of Alloys and Compounds, 2014, 593, 176-183.	5.5	55