

Andrey Koptyug

List of Publications by Year in descending order

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26
papers

553
citations

687363

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all docs

26
docs citations

26
times ranked

596
citing authors

#	ARTICLE	IF	CITATIONS
1	Powder Bed Fusion Additive Manufacturing Using Critical Raw Materials: A Review. <i>Materials</i> , 2021, 14, 909.	2.9	69
2	Selective electron beam melting of Al _{0.5} CrMoNbTa _{0.5} high entropy alloys using elemental powder blend. <i>Heliyon</i> , 2019, 5, e01188.	3.2	61
3	Powder-bed additive manufacturing for aerospace application: Techniques, metallic and metal/ceramic composite materials and trends. <i>Manufacturing Review</i> , 2019, 6, 5.	1.5	46
4	In situ synthesis of a binary Ti-10at% Nb alloy by electron beam melting using a mixture of elemental niobium and titanium powders. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116646.	6.3	38
5	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 130-139.	5.0	37
6	Additive manufacturing to veterinary practice: recovery of bony defects after the osteosarcoma resection in canines. <i>Biomedical Engineering Letters</i> , 2019, 9, 97-108.	4.1	37
7	ADDITIVE MANUFACTURING TECHNOLOGY APPLICATIONS TARGETING PRACTICAL SURGERY. <i>International Journal of Life Science and Medical Research</i> , 2013, 3, 15-24.	0.2	33
8	Different Approaches for Manufacturing Ti-6Al-4V Alloy with Triply Periodic Minimal Surface Sheet-Based Structures by Electron Beam Melting. <i>Materials</i> , 2021, 14, 4912.	2.9	26
9	The influence of chemical etching on porous structure and mechanical properties of the Ti6Al4V Functionally Graded Porous Scaffolds fabricated by EBM. <i>Materials Chemistry and Physics</i> , 2022, 275, 125217.	4.0	26
10	Feasibility of using a novel instrumented human head surrogate to measure helmet, head and brain kinematics and intracranial pressure during multidirectional impact tests. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, S78-S84.	1.3	24
11	Compositionally-tailored steel-based materials manufactured by electron beam melting using blended pre-alloyed powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138587.	5.6	23
12	Developing New Materials for Electron Beam Melting: Experiences and Challenges. <i>Materials Science Forum</i> , 0, 941, 2190-2195.	0.3	17
13	X-ray Computed Tomography Procedures to Quantitatively Characterize the Morphological Features of Triply Periodic Minimal Surface Structures. <i>Materials</i> , 2021, 14, 3002.	2.9	17
14	Phenolic-Enriched Collagen Fibrillar Coatings on Titanium Alloy to Promote Osteogenic Differentiation and Reduce Inflammation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6406.	4.1	16
15	New Ti-35Nb-7Zr-5Ta Alloy Manufacturing by Electron Beam Melting for Medical Application Followed by High Current Pulsed Electron Beam Treatment. <i>Metals</i> , 2021, 11, 1066.	2.3	15
16	In-situ Alloying as a Novel Methodology in Additive Manufacturing. , 2020, , .		14
17	Additive Manufacturing of a Cold-Work Tool Steel using Electron Beam Melting. <i>Steel Research International</i> , 2020, 91, 1900448.	1.8	12
18	Compression deformation and fracture behavior of additively manufactured Ti-6Al-4V cellular structures. <i>International Journal of Lightweight Materials and Manufacture</i> , 2022, 5, 126-135.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Heparin Enriched-WPI Coating on Ti6Al4V Increases Hydrophilicity and Improves Proliferation and Differentiation of Human Bone Marrow Stromal Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 139.	4.1	9
20	A Novel Instrumented Human Head Surrogate for the Impact Evaluation of Helmets. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	8
21	Difference between the biologic and chronologic age as an individualized indicator for the skincare intensity selection: skin cell profile and age difference studies. <i>Biomedical Dermatology</i> , 2019, 3, .	7.7	6
22	Microstructural and Mechanical Evaluation of a Cr-Mo-V Cold-Work Tool Steel Produced via Electron Beam Melting (EBM). <i>Materials</i> , 2021, 14, 2963.	2.9	5
23	Editorial for the special issue technology for disability sport. <i>Sports Engineering</i> , 2016, 19, 139-139.	1.1	2
24	Difference between the biologic and chronologic age as an individualized indicator for the skin care intensity selection: skin topography and immune system state studies, parameter correlations with age difference. <i>Biomedical Dermatology</i> , 2019, 3, .	7.7	1
25	A Novel Multi-Axial Pressure Sensor Probe for Measuring Triaxial Stress States Inside Soft Materials. <i>Sensors</i> , 2021, 21, 3487.	3.8	1
26	A Study of Skin-Close Heat and Moisture with Different Types of Backpacks in Cycling. <i>Proceedings (mdpi)</i> , 2020, 49, 86.	0.2	0