

Vladimir V Popov Jr

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Industry 4.0 and Digitalisation in Healthcare. <i>Materials</i> , 2022, 15, 2140.	2.9	46
3	Synthesis of Refractory High-Entropy Alloy W-Ta-Mo-Nb-V by Powder Bed Fusion Process Using Mixed Elemental Alloying Powder. <i>Materials</i> , 2022, 15, 4043.	2.9	16
4	The titanium 3D-printed flute: New prospects of additive manufacturing for musical wind instruments design. <i>Journal of New Music Research</i> , 2021, 50, 1-17.	0.8	11
5	Microstructure and magnetic properties of Mn-Al-C permanent magnets produced by various techniques. <i>Manufacturing Review</i> , 2021, 8, 10.	1.5	9
6	Powder Bed Fusion Additive Manufacturing Using Critical Raw Materials: A Review. <i>Materials</i> , 2021, 14, 909.	2.9	69
7	Complex Concentrated Alloys for Substitution of Critical Raw Materials in Applications for Extreme Conditions. <i>Materials</i> , 2021, 14, 1197.	2.9	19
8	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy. <i>Physics of Metals and Metallography</i> , 2021, 122, 515-526.	1.0	1
9	Corrosion Resistance of Al-CNT Metal Matrix Composites. <i>Materials</i> , 2021, 14, 3530.	2.9	19
10	Closest and long-term prospects of 3D-printing for obstetrics and gynecology. , 2021, 20, 76-81.	0.2	0
11	Texturing and Phase Evolution in Ti-6Al-4V: Effect of Electron Beam Melting Process, Powder Re-Using, and HIP Treatment. <i>Materials</i> , 2021, 14, 4473.	2.9	19
12	Toxicological evaluation of MnAl based permanent magnets using different in-vitro models. <i>Chemosphere</i> , 2021, 263, 128343.	8.2	7
13	Microstructural Features in Multicore Cu-Nb Composites. <i>Materials</i> , 2021, 14, 7033.	2.9	5
14	Development of high-coercivity state in melt-spun Fe ₄₁ Pd ₄₁ B ₈ Si ₆ P ₄ ribbons. <i>Rare Metals</i> , 2020, 39, 76-83.	7.1	1
15	Experimental Investigation of Convective Heat Transfer Between Silicon-Melt and Solidification Front. <i>Silicon</i> , 2020, 12, 621-628.	3.3	0
16	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
17	High entropy Al _{0.5} CrMoNbTa _{0.5} alloy: Additive manufacturing vs. casting vs. CALPHAD approval calculations. <i>Materials Characterization</i> , 2020, 167, 110505.	4.4	20
18	Hybrid additive manufacturing of steels and alloys. <i>Manufacturing Review</i> , 2020, 7, 6.	1.5	31

#	ARTICLE	IF	CITATIONS
19	In-situ Alloying as a Novel Methodology in Additive Manufacturing. , 2020, , .		14
20	Production of Al Metal Matrix Composites Reinforced With Carbon Nanotubes by Two-Stage Melt-Based HPDC-CE Method. Journal of Engineering Materials and Technology, Transactions of the ASME, 2019, 141, .	1.4	13
21	Production of net-shape Mn-Al permanent magnets by electron beam melting. Additive Manufacturing, 2019, 30, 100787.	3.0	15
22	Prediction of the Phase Composition of High-Entropy Alloys Based on Cr-Nb-Ti-V-Zr Using the Calphad Method. Physics of Metals and Metallography, 2019, 120, 378-386.	1.0	15
23	Reaction bonding of silicon carbides by Binder Jet 3D-Printing, phenolic resin binder impregnation and capillary liquid silicon infiltration. Ceramics International, 2019, 45, 18023-18029.	4.8	61
24	Effect of SPD Processing on the Strength and Conductivity of AA6061 Alloy. Advanced Engineering Materials, 2019, 21, 1801370.	3.5	14
25	Powder-bed additive manufacturing for aerospace application: Techniques, metallic and metal/ceramic composite materials and trends. Manufacturing Review, 2019, 6, 5.	1.5	46
26	Effect of additions of phosphorous, boron, and silicon on the structure and magnetic properties of the melt-spun FePd ribbons. Journal of Magnetism and Magnetic Materials, 2019, 481, 212-220.	2.3	3
27	Selective electron beam melting of Al _{0.5} CrMoNbTa _{0.5} high entropy alloys using elemental powder blend. Heliyon, 2019, 5, e01188.	3.2	61
28	Structure and Magnetic Properties of Heat-Resistant Sm(Co _{0.796} xFe _{0.177} Cu _x Zr _{0.027}) _{6.63} Permanent Magnets with High Coercivity. Jom, 2019, 71, 559-566.	1.9	8
29	Additive manufacturing to veterinary practice: recovery of bony defects after the osteosarcoma resection in canines. Biomedical Engineering Letters, 2019, 9, 97-108.	4.1	37
30	Effect of Hot Isostatic Pressure treatment on the Electron-Beam Melted Ti-6Al-4V specimens. Procedia Manufacturing, 2018, 21, 125-132.	1.9	40
31	Prospects of additive manufacturing of rare-earth and non-rare-earth permanent magnets. Procedia Manufacturing, 2018, 21, 100-108.	1.9	37
32	Structure and Properties of Sm-Co-Fe-Cu-Zr Magnets for High-Temperature Applications. Metal Science and Heat Treatment, 2018, 60, 498-503.	0.6	7
33	The effect of powder recycling on the mechanical properties and microstructure of electron beam melted Ti-6Al-4V specimens. Additive Manufacturing, 2018, 22, 834-843.	3.0	76
34	Microstructural Evolution and Phase Formation in 2nd-Generation Refractory-Based High Entropy Alloys. Materials, 2018, 11, 175.	2.9	21
35	Design and 3D-printing of titanium bone implants: brief review of approach and clinical cases. Biomedical Engineering Letters, 2018, 8, 337-344.	4.1	105
36	Effect of the hatching strategies on mechanical properties and microstructure of SEBM manufactured Ti-6Al-4V specimens. Letters on Materials, 2018, 8, 468-472.	0.7	10

#	ARTICLE	IF	CITATIONS
37	Structure and Thermal Stability of Cu after Severe Plastic Deformation. Defect and Diffusion Forum, 0, 297-301, 1312-1321.	0.4	33
38	Developing New Materials for Electron Beam Melting: Experiences and Challenges. Materials Science Forum, 0, 941, 2190-2195.	0.3	17
39	Heat Transfer and Phase Formation through EBM 3D-Printing of Ti-6Al-4V Cylindrical Parts. Defect and Diffusion Forum, 0, 383, 190-195.	0.4	12