

Evgenii V Melnikov

List of Publications by Year in descending order

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34
papers

263
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1162367

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docs citations

35
times ranked

165
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient transition zone structure in “steel” copper sample produced by double wire-feed electron beam additive manufacturing. <i>Journal of Materials Science</i> , 2020, 55, 9258-9272.	1.7	62
2	The strain-rate dependence of the Hall-Petch effect in two austenitic stainless steels with different stacking fault energies. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 365-372.	2.6	58
3	Microstructure and grain growth inhomogeneity in austenitic steel produced by wire-feed electron beam melting: the effect of post-building solid-solution treatment. <i>Journal of Materials Science</i> , 2020, 55, 9211-9224.	1.7	41
4	The microstructure, phase composition and tensile properties of austenitic stainless steel in a wire-feed electron beam melting combined with ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141519.	2.6	19
5	A comparative study of a solid solution hardening in carbon-alloyed FeMnCrNiCo _{0.95} C _{0.05} high-entropy alloy subjected to different thermal-mechanical treatments. <i>Materials Letters</i> , 2021, 285, 129073.	1.3	16
6	Anisotropy of the tensile properties in austenitic stainless steel obtained by wire-feed electron beam additive growth. <i>Letters on Materials</i> , 2019, 9, 460-464.	0.2	15
7	Electron-beam additive manufacturing of high-nitrogen steel: Microstructure and tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141951.	2.6	13
8	Microstructure and mechanical properties of Nb-alloyed austenitic CrNi steel fabricated by wire-feed electron beam additive manufacturing. <i>Materials Characterization</i> , 2022, 190, 112063.	1.9	9
9	Microstructural inhomogeneity of phase composition and grain structure in electron beam wire-feed additive manufactured AISI 304 stainless steel. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
10	THE EFFECT OF NIOBIUM ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AUSTENITIC CrNi STEEL PRODUCED BY WIRE-FEED ELECTRON BEAM ADDITIVE MANUFACTURING. <i>Nanoscience and Technology</i> , 2020, 11, 109-118.	0.6	4
11	The Influence of the Thermomechanical Processing Regime on the Structural Evolution of Mo-Nb-Ti-V Microalloyed Steel Subjected to High-Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3400-3409.	1.1	3
12	Effect of vanadium-alloying on hydrogen embrittlement of austenitic high-nitrogen steels. <i>Procedia Structural Integrity</i> , 2018, 13, 1053-1058.	0.3	3
13	Effect of stacking fault energy on Hall-Petch relationship parameters of austenitic stainless steels. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
14	Microstructure and mechanical properties of low-carbon steel fabricated by electron-beam additive manufacturing. <i>Letters on Materials</i> , 2021, 11, 427-432.	0.2	3
15	A comparative study of the macroscopical and microscopical fracture mechanisms in cast and additively manufactured austenitic stainless steels. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
16	The Influence of Phase Composition and Phase Distribution on Crack Formation and Fracture Mechanisms of Cr-Ni Steels Produced by the Method of 3D Electron-Beam Printing. <i>Russian Physics Journal</i> , 2020, 63, 917-925.	0.2	2
17	Microstructure and phase composition of vanadium-alloyed high-nitrogen steel fabricated by additive manufacturing. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
18	On the influence of post-built heat treatment on strength and ductility of AISI 304 steel produced by electron-beam additive technology. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1

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19	Microstructure and phase composition of high-nitrogen steel fabricated by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	1
20	Influence of thermal and thermal-mechanical treatments on microstructure and mechanical properties of the multicomponent alloy FeCrMnNiCo0.85C0.15. Letters on Materials, 2021, 11, 375-381.	0.2	1
21	The effect of solid-solution temperature on phase composition and tensile properties of vanadium-alloyed high interstitial steels. AIP Conference Proceedings, 2019, , .	0.3	0
22	Influence of hydrogen saturation on the structure and mechanical properties of Fe-17Cr-13Ni-3Mo-0.01C austenitic steel during rolling at different temperatures. Metal Working and Material Science, 2021, 23, 81-97.	0.0	0
23	Effect of electrolytic hydrogen saturation on deformation mechanisms of Fe-17Cr-13Ni-3Mo-0.01C austenitic stainless steel during cold rolling. Letters on Materials, 2021, 11, 285-290.	0.2	0
24	CHARACTERISTICS OF A GRADIENT MATERIAL BASED ON NI-CR STAINLESS STEEL AND H20N80 ALLOY PRODUCED BY ELECTRON-BEAM 3D-PRINTING. Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta, 2021, , 57-66.	0.1	0
25	The effect of hydrogen charging on the mechanical properties and fracture mechanisms of high-nitrogen chromium-manganese steels after age-hardening. Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta, 2020, , 57-67.	0.1	0
26	The influence of age hardening on microstructure, phase composition, and microhardness of high-nitrogen austenitic steel. Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta, 2020, , 74-81.	0.1	0
27	On the influence of strain rate and deformation temperature on the peculiarities of plastic flow in vanadium-alloyed austenitic steel with high interstitial content. AIP Conference Proceedings, 2020, , .	0.3	0
28	Mechanical properties and fracture micromechanisms in 316L stainless steel subjected to ion-plasma treatment with mixture of N, H and Ar gases. AIP Conference Proceedings, 2020, , .	0.3	0
29	The change in solidification mode and phase composition in ϵ 321 stainless Steel/NiCr Alloy joint produced by Wire-feed electron beam melting. AIP Conference Proceedings, 2020, , .	0.3	0
30	The peculiarities of hydrogen embrittlement of Nb-alloyed stainless steel fabricated by electron-beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	0
31	Peculiarities of tensile deformation and fracture of high-nitrogen steel obtained by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	0
32	Effect of the precipitation hardening on regularities of plastic deformation and fracture mode of V-alloyed high nitrogen austenitic steel. Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta, 2020, , 42-50.	0.1	0
33	Microstructure/mechanical properties relationship in high-nitrogen steel obtained by electron beam additive manufacturing and conventional casting. AIP Conference Proceedings, 2020, , .	0.3	0
34	Hydrogen embrittlement of the additively manufactured Nb-free and Nb-alloyed austenitic steels. AIP Conference Proceedings, 2022, , .	0.3	0