

# Sergei Nevskii

## List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Model of nanostructure formation in Al-Si alloy at electron beam treatment. Materials Research Express, 2019, 6, 026540.	1.6	17
2	Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum Alloys in Electron Beam Irradiation. Metals, 2020, 10, 1399.	2.3	16
3	Effect of the electric potential of the aluminum surface on stress relaxation. Technical Physics, 2011, 56, 877-880.	0.7	4
4	Thermocapillary model of formation of surface nanostructure in metals at electron beam treatment. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012028.	0.6	4
5	The mechanism of formation of surface micro- and nanostructures in the AlCoCrFeNi high-entropy alloy during electron-beam treatment. Letters on Materials, 2021, 11, 309-314.	0.7	3
6	Formation Wear Resistant Coatings on Martensite Steel Hardox 450 by Welding Methods. IOP Conference Series: Materials Science and Engineering, 2016, 142, 012079.	0.6	2
7	Nanolayer formation during hydrodynamic instability under external stimuli. Steel in Translation, 2016, 46, 679-685.	0.3	2
8	Mechanism of Formation of the Coating/Substrate Interface during the Treatment of Conductors by an Electric Explosion Plasma. Russian Metallurgy (Metally), 2019, 2019, 289-293.	0.5	2
9	Solution of niobium in iron during arc surfacing. Steel in Translation, 2016, 46, 563-566.	0.3	1
10	Impact of the Chemical Elements Upon the Convective Flows in the Molten Metal of the Weld Pool. IOP Conference Series: Earth and Environmental Science, 2017, 66, 012017.	0.3	1
11	Mechanisms of nanoscale structure formation during electron beam treatment of silumin. IOP Conference Series: Materials Science and Engineering, 0, 447, 012061.	0.6	1
12	Influence of Pulsed Electric Current on the Motion of Spontaneous Plastic-Deformation Waves in Steel-Plate Extension. Steel in Translation, 2019, 49, 97-101.	0.3	1
13	MATHEMATICAL MODELS OF MECHANISMS FOR ROLLED PRODUCTS ACCELERATED COOLING. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2018, 61, 326-332.	0.3	1
14	Model of nanostructural layers formation at long-term operation of rails. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 63, 699-706.	0.3	1
15	Effect of the surface charge density on the creep of copper. Russian Metallurgy (Metally), 2015, 2015, 74-77.	0.5	0
16	Numerical simulation of hydrodynamic flows in the jet electric. IOP Conference Series: Materials Science and Engineering, 2016, 110, 012043.	0.6	0
17	Model of convection mass transfer in titanium alloy at low energy high current electron beam action. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012031.	0.6	0
18	Mathematical modelling of convective processes in a weld pool under electric arc surfacing. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012039.	0.6	0

#	ARTICLE	IF	CITATIONS
19	The Interaction Mechanism between Solid and Liquid Metals under Ultrasonic Action. Doklady Physics, 2018, 63, 117-120.	0.7	0
20	Simulation of differentiated thermal processing of railway rails by compressed air. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 63, 907-914.	0.3	0
21	ON ACCELERATED COOLING MECHANISMS IN THERMAL HARDENING OF ROLLED METAL. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2017, 60, 1005-1007.	0.3	0
22	INFLUENCE OF PULSED ELECTRIC CURRENT ON THE WAVES MOTION CHARACTER OF PLASTIC DEFORMATION AT TENSION OF A STEEL PLATE. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2019, 62, 148-153.	0.3	0
23	Simulation of Differentiated Thermal Processing of Railway Rails by Compressed Air. Steel in Translation, 2020, 50, 848-854.	0.3	0
24	Simulation of phase transformations in high carbon pearlite steel at various cooling rates. CIS Iron and Steel Review, 2020, , 55-60.	0.4	0
25	Model of Nanostructural Layer Formation during Long-Term Operation of Rails. Steel in Translation, 2020, 50, 665-671.	0.3	0