Michael Semenov

List of Publications by Year
in descending order

25 papers	100 citations	1478505 6 h-index	1474206 9 g-index
25 all docs	25 docs citations	25 times ranked	36 citing authors

#	Article	IF	Citations
1	Computation of carbon concentration curves in vacuum carburizing of steels. Metal Science and Heat Treatment, 2013, 55, 38-42.	0.6	15
2	Computation-Based Analysis of the Methods of Hardening of Gears from Heat-Resistant Steels. Metal Science and Heat Treatment, 2014, 56, 45-49.	0.6	8
3	Effect of Diffusion Processes During Pack Rolling on Multilayer Material Stability. Metallurgist, 2018, 62, 432-439.	0.6	8
4	Carbon Coatings Deposited on Prosthodontic Ni-Cr Alloy. Applied Sciences (Switzerland), 2021, 11, 4551.	2.5	8
5	Control of heat-resistant steel carburized layer structure. Part I. Metal Science and Heat Treatment, 2013, 55, 257-264.	0.6	7
6	Use of vacuum carbonitriding for raising the seizure resistance of gears from steel VKS-10. Metal Science and Heat Treatment, 2013, 55, 29-33.	0.6	6
7	Optimization of Modes of Vacuum Carburizing of Gears from Heat-Resistant Steel VKS-7 on the Basis of Computational Design. Metal Science and Heat Treatment, 2015, 57, 28-31.	0.6	6
8	A model of diffusion growth of carbide-phase particles in the carburized layer of heat-resistant steels. Metal Science and Heat Treatment, 1998, 40, 374-377.	0.6	5
9	Mixed-surface impregnation of gear wheels made of 13Kh3N3M2VFB-Sh age-hardenable integrally alloyed steel aimed at improving surface hardness, wear-resistance, and back-to-back endurance. Journal of Machinery Manufacture and Reliability, 2017, 46, 404-408.	0.5	5
10	Choice of Boundary Condition for Solving the Diffusion Problem in Simulation of the Process of Vacuum Carburizing. Metal Science and Heat Treatment, 2017, 59, 237-242.	0.6	4
11	Application of Complex Thermochemical Treatment for Reinforcing High-Strength Precipitation-Hardening Heat-Resistant Steel Microalloyed with REM. Metal Science and Heat Treatment, 2018, 60, 450-453.	0.6	4
12	Use of Combined Methods of Successive Carburizing and Nitriding of Martensitic Steels in Low-Pressure Atmospheres. Metal Science and Heat Treatment, 2020, 62, 127-132.	0.6	4
13	Corrosive Studies of a Prosthetic Ni-Cr Alloy Coated with Ti(C,N) Type Layers. Materials, 2022, 15, 2471.	2.9	4
14	Control of Heat-Resistant Steel Carburized Layer Structure. Part II. Metal Science and Heat Treatment, 2013, 55, 316-321.	0.6	3
15	Structure and Contact Fatigue Strength of Heat-Resistant Steel VKS-7 Hardened Layers After Ion-Plasma Nitriding. Metallurgist, 2016, 60, 428-433.	0.6	3
16	Formation of the cementite crystal in austenite by transformation of triangulated polyhedra. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 325-332.	1.1	3
17	Computational Evaluation of Cyclic Strength of Carburized Gears from Heat-Resistant Steels. Metal Science and Heat Treatment, 2014, 56, 428-433.	0.6	2
18	Deriving Morse Pair Potentials for Nickel and Cobalt, Based on the GrÃ¼neisen Parameter and Refined Values of Atomic Compressibility. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 728-731.	0.6	2

#	Article	IF	Citations
19	Evaluation of the Characteristics of Hardening of Heat-Resistant Steel Subjected to Combined Thermochemical Treatment. Metal Science and Heat Treatment, 2013, 55, 345-350.	0.6	1
20	Prediction of Saturation and Strength Properties of a Nitrided Layer of Nickel Alloy 40KhNYu-VI Based on Calculation Methods. Metallurgist, 2018, 61, 830-835.	0.6	1
21	Technological Possibilities of Different Nitriding Techniques for Saturation of Heat-Resistant Steels of Martensitic Class. Metal Science and Heat Treatment, 2021, 63, 437.	0.6	1
22	Combined system for controlling ion cyanidation. Metal Science and Heat Treatment, 1996, 38, 12-15.	0.6	0
23	Nomograms to Determine the Controlling Factors in Vacuum-Carburizing Regimes. Metal Science and Heat Treatment, 2016, 58, 293-298.	0.6	0
24	Modeling of the Nitrogen Saturation of the Alloys Based on Nickel and Chromium in a Glow Discharge. Russian Metallurgy (Metally), 2021, 2021, 283-289.	0.5	0
25	Problems of Simulation of Carbon Mass Transfer from Low-Pressure Saturating Atmosphere into Steel. Metal Science and Heat Treatment, 2021, 63, 101-105.	0.6	0