

# Alexander I Blesman

## List of Publications by Year in descending order

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34  
papers

132  
citations

1478505

6  
h-index

1372567

10  
g-index

34  
all docs

34  
docs citations

34  
times ranked

119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the impact of Rehbinder effect, electrical erosion and wire tension on wire breakages during WEDM. Journal of Materials Processing Technology, 2018, 256, 131-144.	6.3	22
2	Preparation and in vitro apatite-forming ability of hydroxyapatite and $\beta$ -wollastonite composite materials. Ceramics International, 2018, 44, 17824-17834.	4.8	18
3	Synthesis of Calcium Phosphate and Calcium Silicate Composites. Russian Journal of Inorganic Chemistry, 2018, 63, 993-1000.	1.3	13
4	Poorly crystallized hydroxyapatite and calcium silicate hydrate composites: Synthesis, characterization and soaking in simulated body fluid. Materials Characterization, 2020, 161, 110158.	4.4	12
5	The Influence of the High Temperature Annealing on the Small Impurities Segregation in J24056 Grain Steel. Procedia Engineering, 2015, 113, 413-417.	1.2	10
6	Dimensionless Universal Parameters of the Kramers Problem. Journal of Physics: Conference Series, 2019, 1210, 012052.	0.4	7
7	Research of the thermal-tension condition and the elemental composition gradient changes of binary systems produced by combined ion-plasma method. IOP Conference Series: Materials Science and Engineering, 2015, 81, 012031.	0.6	6
8	Wire electrical discharge machining of E110 zirconium alloy. Journal of Physics: Conference Series, 2017, 858, 012005.	0.4	6
9	Synthesis and physicochemical investigation of calcium silicate hydrate with different stoichiometric composition. Journal of Physics: Conference Series, 2019, 1210, 012132.	0.4	5
10	The model of calculation the adhesion force and energy for coatings deposited by magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2016, 110, 012009.	0.6	4
11	Simulation of Internal Stresses at the Metals and Alloys Radiation with Charged Particle Beams. Procedia Engineering, 2016, 152, 589-593.	1.2	4
12	The Kramers problem in the energy diffusion regime: transient times. Journal of Physics: Conference Series, 2018, 1050, 012018.	0.4	4
13	Research of AISI 321 steel microrelief after ultrasonic impact treatment with marker applying. Journal of Physics: Conference Series, 2018, 944, 012035.	0.4	3
14	Nanotechnology in compressor and pump engineering. Chemical and Petroleum Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tt	0.8	2
15	Molybdenum protective coatings adhesion to steel substrate. Journal of Physics: Conference Series, 2017, 858, 012003.	0.4	2
16	Peculiarities of the composition of solid phases formed in aqueous calcium-silicate systems with a medium of variable acidity. Glass Physics and Chemistry, 2017, 43, 452-458.	0.7	2
17	Influence of ultrasonic impact treatment and morphology of solid lubricant particles on its attachment to surfaces with different roughness. AIP Conference Proceedings, 2017, , .	0.4	2
18	Multicomponent semiconductors based on the system GaAs-CdSe. Receiving. Properties. Journal of Physics: Conference Series, 2019, 1210, 012064.	0.4	2

#	ARTICLE	IF	CITATIONS
19	The combined ion-plasma method for the superficial modification of the products of constructional steel operating under the conditions of short-term extreme thermal conditions. , 2014, , .		1
20	Research of metallic materials irradiation with high energy pulsed laser impact. IOP Conference Series: Materials Science and Engineering, 2016, 110, 012007.	0.6	1
21	Diffusion Mechanisms in Binary "Steel" coating™ Systems Under Long-term High Temperature Exposures. Procedia Engineering, 2016, 152, 576-581.	1.2	1
22	Research of niobium thin films with a predetermined thickness produced by RF magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012069.	0.6	1
23	Effect of sodium silicate on the nature of crystallization products in calcium phosphate systems. Russian Journal of Inorganic Chemistry, 2017, 62, 1286-1292.	1.3	1
24	Influence of microstructure and surface topography on the electrical conductivity of Cu and Ag thin films obtained by magnetron sputtering. Journal of Physics: Conference Series, 2017, 830, 012112.	0.4	1
25	Research of the temperature fields influence on the stress state of internal cylindrical surfaces modified by magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012050.	0.6	1
26	SPECTRAL METHOD OF CONTROL AFTER ULTRASONIC STRENGTHENING TREATMENT. PART 3. Kontrol Diagnostika, 2016, , 14-25.	0.1	1
27	Opportunities of Searching New Materials of Ecological Application on the Basis of Structural Investigations of Semiconductors in the System CdTe-CdS. Procedia Engineering, 2016, 152, 647-654.	1.2	0
28	Modeling a two-dimensional distorted stochastic harmonic oscillator. , 2017, , .		0
29	Applicability of Kramers rate formulas in the energy diffusion regime. Journal of Physics: Conference Series, 2018, 1050, 012029.	0.4	0
30	Obtaining, bulk physical and chemical properties, certification of heterosystem InSb-ZnS solid solutions. Journal of Physics: Conference Series, 2018, 944, 012046.	0.4	0
31	Mass transfer of niobium and copper in binary systems obtained by magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2018, 387, 012060.	0.6	0
32	Investigation of the impact of WEDM modes on surface morphology, roughness and cracking of zirconium, niobium and vanadium. Journal of Physics: Conference Series, 2019, 1210, 012020.	0.4	0
33	Investigation of welding bridge occurrence and short circuit impact on wire breakages during WEDM. Journal of Physics: Conference Series, 2019, 1210, 012045.	0.4	0
34	Thermal Decay of a Metastable State: the Quasistationary Rate and the Mean Lifetime. Journal of Physics: Conference Series, 2019, 1210, 012051.	0.4	0