

# Vadim Sh Sufiiarov

## List of Publications by Year in descending order

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65  
papers

1,934  
citations

471371

17  
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289141

40  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, Mechanical and Magnetic Properties of Selective Laser Melted Fe-Si-B Alloy. <i>Materials</i> , 2022, 15, 4121.	1.3	5
2	A Review on Additive Manufacturing of Functional Gradient Piezoceramic. <i>Micromachines</i> , 2022, 13, 1129.	1.4	5
3	Structural analysis of an endoprosthesis designed with graded density lattice structures. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3420.	1.0	5
4	Computer Modelling of Uniaxial Tension of Functionally Gradient Material Produced by Additive Manufacturing. <i>Technical Physics</i> , 2021, 66, 23-27.	0.2	3
5	In situ synthesized Ti <sub>2</sub> AlNb-based composites produced by selective laser melting by addition of SiC-whiskers. <i>Materials Letters</i> , 2021, 297, 129956.	1.3	10
6	Structure and Properties of Barium Titanate Lead-Free Piezoceramic Manufactured by Binder Jetting Process. <i>Materials</i> , 2021, 14, 4419.	1.3	19
7	Mitigating Inhomogeneity and Tailoring the Microstructure of Selective Laser Melted Titanium Orthorhombic Alloy by Heat Treatment, Hot Isostatic Pressing, and Multiple Laser Exposures. <i>Materials</i> , 2021, 14, 4946.	1.3	6
8	LCD-SLA 3D printing of BaTiO <sub>3</sub> piezoelectric ceramics. <i>Ceramics International</i> , 2021, 47, 30358-30366.	2.3	43
9	Structure and Properties of Ti/Ti64 Graded Material Manufactured by Laser Powder Bed Fusion. <i>Materials</i> , 2021, 14, 6140.	1.3	11
10	Spheroidization of Fe-Based Powders in Plasma Jet of DC Arc Plasma Torch and Application of These Powders in Selective Laser Melting. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 579-585.	0.1	4
11	Microstructure, densification, and mechanical properties of titanium intermetallic alloy manufactured by laser powder bed fusion additive manufacturing with high-temperature preheating using gas atomized and mechanically alloyed plasma spheroidized powders. <i>Additive Manufacturing</i> , 2020, 34, 101374.	1.7	22
12	Development of the titanium meshes by selective laser melting and chemical etching for using as medical implants. <i>Materials Today: Proceedings</i> , 2020, 30, 746-751.	0.9	5
13	Investigation of accuracy, microstructure and properties of additive manufactured lattice structures. <i>Materials Today: Proceedings</i> , 2020, 30, 572-577.	0.9	6
14	Selective laser melting of Inconel 718 under high laser power. <i>Materials Today: Proceedings</i> , 2020, 30, 784-788.	0.9	9
15	Tailoring microstructure and properties of graded Ti-22Al-25Nb/SiC and Ti-22Al-25Nb/Ti-6Al-4V alloys by in-situ synthesis during selective laser melting. <i>Materials Today: Proceedings</i> , 2020, 30, 672-678.	0.9	2
16	Binder jetting additive manufacturing of 420 stainless steel: Densification during sintering and effect of heat treatment on microstructure and hardness. <i>Materials Today: Proceedings</i> , 2020, 30, 592-595.	0.9	14
17	Reaction sintering of metal-ceramic AlSi-Al <sub>2</sub> O <sub>3</sub> composites manufactured by binder jetting additive manufacturing process. , 2020, , .		2
18	Modeling the mechanical properties of lattice structures made by selective laser melting. <i>Letters on Materials</i> , 2020, 10, 123-128.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Selective Laser Melting of Ti2AlNb-based intermetallic alloy using elemental powders: Effect of process parameters and post-treatment on microstructure, composition, and properties. Intermetallics, 2019, 112, 106554.	1.8	49
20	X-Ray CT Investigation of Graded Ti-Ti64 Material Produced by Selective Laser Melting. Key Engineering Materials, 2019, 822, 542-548.	0.4	0
21	Selective Laser Melting of the Intermetallic Titanium Alloy. Russian Journal of Non-Ferrous Metals, 2019, 60, 186-193.	0.2	6
22	A Study of Structural Features of a Gradient Material from a Heat-Resistant Nickel Alloy Produced by Laser Cladding. Metal Science and Heat Treatment, 2019, 60, 739-744.	0.2	5
23	Effect of Heat Treatment Modes on the Structure and Properties of Alloy VT6 After Selective Laser Melting. Metal Science and Heat Treatment, 2019, 60, 745-748.	0.2	6
24	Tailoring the Properties in Functionally Graded Alloy Inconel 718 Using Additive Technologies. Metal Science and Heat Treatment, 2019, 60, 701-709.	0.2	17
25	Synthesis of titanium orthorhombic alloy using binder jetting additive manufacturing. Materials Letters, 2019, 243, 88-91.	1.3	32
26	Microstructure and Mechanical Properties of Light Cellular Constructions Made of a VT6 Alloy by Selective Laser Melting. Russian Metallurgy (Metally), 2019, 2019, 1448-1451.	0.1	0
27	Numerical simulation of the inelastic behavior of a structurally graded material. Letters on Materials, 2019, 9, 97-102.	0.2	7
28	INVESTIGATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES OF VT6 TITANIUM ALLOY LATTICE STRUCTURES PRODUCED BY SELECTIVE LASER MELTING. Tekhnologiya Metallov, 2019, .	0.1	0
29	DEVELOPMENT OF SELECTIVE LASER MELTING PARAMETERS FOR EPITAXIAL CRYSTAL GROWTH. , 2019, , .		0
30	Effect of heat treatment on microstructure and properties of Ti-22Al-25Nb alloy fabricated by Selective Laser Melting. , 2019, , .		1
31	FUNCTIONALLY GRADED LATTICE STRUCTURES MADE FROM TITANIUM ALLOY BY SELECTIVE LASER MELTING. , 2019, , .		0
32	Creep and Thermomechanical Fatigue of Functionally Graded Inconel 718 Produced by Additive Manufacturing. Minerals, Metals and Materials Series, 2018, , 85-97.	0.3	26
33	Additive technology for manufacturing structurally-graded materials from the Inconel 625 nickel-based superalloy. IOP Conference Series: Earth and Environmental Science, 2018, 194, 042013.	0.2	2
34	Fabrication of the Nbâ€“16Si Alloy Powder for Additive Technologies by Mechanical Alloying and Spheroidization in Electric-Arc Discharge Thermal Plasma. Russian Journal of Non-Ferrous Metals, 2018, 59, 671-676.	0.2	20
35	Multi-criteria planning model of engines parts additive manufacturing. MATEC Web of Conferences, 2018, 224, 01119.	0.1	4
36	Synthesis of Ti-5Al, Ti-6Al-7Nb, and Ti-22Al-25Nb alloys from elemental powders using powder-bed fusion additive manufacturing. Journal of Alloys and Compounds, 2018, 763, 436-445.	2.8	81

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37	Control of structure formation in selective laser melting process. <i>Tsvetnye Metally</i> , 2018, , 68-74.	0.1	21
38	The Effect of Layer Thickness at Selective Laser Melting. <i>Procedia Engineering</i> , 2017, 174, 126-134.	1.2	132
39	In-situ synthesis of Ti <sub>2</sub> AlNb-based intermetallic alloy by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017, 704, 434-442.	2.8	74
40	Impact of heat treatment on mechanical behaviour of Inconel 718 processed with tailored microstructure by selective laser melting. <i>Materials and Design</i> , 2017, 131, 12-22.	3.3	263
41	Anisotropy of mechanical properties of products manufactured using selective laser melting of powdered materials. <i>Russian Journal of Non-Ferrous Metals</i> , 2017, 58, 389-395.	0.2	51
42	Functionally graded Inconel 718 processed by additive manufacturing: Crystallographic texture, anisotropy of microstructure and mechanical properties. <i>Materials and Design</i> , 2017, 114, 441-449.	3.3	393
43	The evolution of structural and chemical heterogeneity during rapid solidification at gas atomization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 192, 012009.	0.3	20
44	Evolution of structure and properties of heat-resistant nickel alloy after selective laser melting, hot isostatic pressing and heat treatment. <i>Tsvetnye Metally</i> , 2017, , 77-82.	0.1	13
45	Microstructure and mechanical properties of additive manufactured copper alloy. <i>Materials Letters</i> , 2016, 179, 38-41.	1.3	154
46	Use of Additive Techniques for Preparing Individual Components of Titanium Alloy Joint Endoprostheses. <i>Bio-Medical Engineering</i> , 2016, 50, 202-205.	0.3	34
47	A laser ultrasonic technique for studying the properties of products manufactured by additive technologies. <i>Russian Journal of Nondestructive Testing</i> , 2016, 52, 303-309.	0.3	23
48	Layer thickness influence on the Inconel 718 alloy microstructure and properties under selective laser melting. <i>Tsvetnye Metally</i> , 2016, , 81-86.	0.1	12
49	Producing hip implants of titanium alloys by additive manufacturing. <i>International Journal of Bioprinting</i> , 2016, 2, .	1.7	45
50	Selective laser melting of heat-resistant Ni-based alloy. <i>Non-ferrous Metals</i> , 2015, , 32-35.	0.4	25
51	Selective laser melting of Ti-6Al-4V for gas turbine components manufacturing. <i>Non-ferrous Metals</i> , 2015, , 21-24.	0.4	3
52	Selective laser melting of titanium alloy and manufacturing of gas-turbine engine part blanks. <i>Tsvetnye Metally</i> , 2015, , 76-80.	0.1	21
53	Properties of copper-based cast microwires, obtained by ultrafast liquid quenching. <i>Tsvetnye Metally</i> , 2015, , 84-88.	0.1	0
54	Selective Laser Melting of the Inconel 718 Nickel Superalloy. <i>Applied Mechanics and Materials</i> , 0, 698, 333-338.	0.2	12

#	ARTICLE	IF	CITATIONS
55	Microstructure and Mechanical Properties of Inconel 718 Produced by SLM and Subsequent Heat Treatment. Key Engineering Materials, 0, 651-653, 665-670.	0.4	57
56	Microstructure and Mechanical Properties of Ti-6Al-4V Manufactured by SLM. Key Engineering Materials, 0, 651-653, 677-682.	0.4	56
57	Metal Powder Additive Manufacturing. , 0, , .		33
58	A novel approaches to components design additive manufacturing process. IOP Conference Series: Earth and Environmental Science, 0, 194, 022026.	0.2	9
59	The investigation of microstructure and mechanical properties of tool steel produced by selective laser melting technology. IOP Conference Series: Materials Science and Engineering, 0, 441, 012003.	0.3	11
60	Development of SLM quality system for gas turbines engines parts production. IOP Conference Series: Materials Science and Engineering, 0, 441, 012024.	0.3	12
61	Formation of Structure in Titanium Lightweight Structures Made by Selective Laser Melting. Materials Science Forum, 0, 946, 990-995.	0.3	4
62	Investigation of Functional Graded Steel Parts Produced by Selective Laser Melting. Key Engineering Materials, 0, 822, 563-568.	0.4	0
63	Design and mechanical properties simulation of graded lattice structures for additive manufacturing endoprotheses. Mechanics of Advanced Materials and Structures, 0, , 1-7.	1.5	5
64	Investigation of Ti-6Al-4V Alloy &lt;i>In Situ&i> Manufactured Using Selective Laser Melting from Elemental Powder Mixture. Solid State Phenomena, 0, 299, 646-651.	0.3	3
65	Designing of the digital casting process for the gas turbine engine blades with a single-crystal structure. IOP Conference Series: Materials Science and Engineering, 0, 441, 012058.	0.3	11