

# Ilya V Okulov

## List of Publications by Citations

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32  
papers

1,110  
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ext. papers

1,282  
ext. citations

6.3  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
32	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 688, 20-26	5.3	184
31	Effect of Powder Particle Shape on the Properties of In Situ TiTiB Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 1001-1005	9.1	156
30	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 65, 866-871	4.1	77
29	Dealloying-based interpenetrating-phase nanocomposites matching the elastic behavior of human bone. <i>Scientific Reports</i> , <b>2017</b> , 7, 20	4.9	59
28	Flash Joule heating for ductilization of metallic glasses. <i>Nature Communications</i> , <b>2015</b> , 6, 7932	17.4	55
27	High strength beta titanium alloys: New design approach. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 297-302	5.3	53
26	Open porous dealloying-based biomaterials as a novel biomaterial platform. <i>Materials Science and Engineering C</i> , <b>2018</b> , 88, 95-103	8.3	47
25	Dealloying-based metal-polymer composites for biomedical applications. <i>Scripta Materialia</i> , <b>2018</b> , 146, 290-294	5.6	44
24	Tuning microstructure and mechanical properties of open porous TiNb and TiFe alloys by optimization of dealloying parameters. <i>Scripta Materialia</i> , <b>2018</b> , 154, 68-72	5.6	40
23	Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906160	24	36
22	Nanoporous magnesium. <i>Nano Research</i> , <b>2018</b> , 11, 6428-6435	10	33
21	Effect of microstructure on the mechanical properties of as-cast Ti-Nb-Al-Cu-Ni alloys for biomedical application. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4795-801	8.3	31
20	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 733, 80-86	5.3	28
19	Significant tensile ductility and toughness in an ultrafine-structured Ti 68.8 Nb 13.6 Co 6 Cu 5.1 Al 6.5 bi-modal alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 457-463	5.3	25
18	Microstructure and mechanical properties of new composite structured TiVAlCuNi alloys for spring applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 603, 76-83	5.3	22
17	Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured TiNbNiCoAl alloys with bi-modal grain size distribution. <i>Materials &amp; Design</i> , <b>2014</b> , 62, 14-20		21
16	Effect of boron on microstructure and mechanical properties of multicomponent titanium alloys. <i>Materials Letters</i> , <b>2015</b> , 158, 111-114	3.3	19

15	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 673-678	5.3	19
14	Selective laser melting of high-strength, low-modulus Ti <sub>5</sub> Nb <sub>3</sub> Zr <sub>2</sub> Ta alloy. <i>Materialia</i> , <b>2020</b> , 14, 100941	3.2	19
13	Microstructural evolution and mechanical properties of bulk and porous low-cost Ti <sub>60</sub> Mo <sub>40</sub> alloys produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 156768	5.7	19
12	Deformation and fracture behavior of composite structured Ti-Nb-Al-Co(-Ni) alloys. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 071905	3.4	17
11	Ti-Al Composite Wires with High Specific Strength. <i>Metals</i> , <b>2011</b> , 1, 79-97	2.3	16
10	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , <b>2016</b> , 4, 33	2.4	16
9	Processing of Intermetallic Titanium Aluminide Wires. <i>Metals</i> , <b>2013</b> , 3, 188-201	2.3	14
8	In situ studies of temperature-dependent behaviour and crystallisation of Ni <sub>36.5</sub> Pd <sub>36.5</sub> P <sub>27</sub> metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S208-S212	5.7	13
7	Processing of High Strength Light-Weight Metallic Composites. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 1208-1216	3.5	11
6	Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159436	5.7	9
5	Metallographic Preparation of Aluminium-Titanium Composites. <i>Praktische Metallographie/Practical Metallography</i> , <b>2013</b> , 50, 739-753	0.3	8
4	Texture development in Ti/Al filament wires produced by accumulative swaging and bundling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 360-367	5.3	7
3	Hardening of Additive Manufactured 316L Stainless Steel by Using Bimodal Powder Containing Nanoscale Fraction. <i>Materials</i> , <b>2020</b> , 14,	3.5	7
2	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	5
1	Nanoporous Materials: Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design (Adv. Mater. 6/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070044	24	