Ilya V Okulov

List of Publications by Year in Descending Order

32 papers	1,110 citations	19 h-index	33 g-index
34 ext. papers	1,282 ext. citations	6.3 avg, IF	4.5 L-index

#	Paper	IF	Citations
32	Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements. *Journal of Alloys and Compounds*, **2021**, 870, 159436	5.7	9
31	Microstructural evolution and mechanical properties of bulk and porous low-cost Ti□Mo□Fe alloys produced by powder metallurgy. *Journal of Alloys and Compounds*, **2021**, 853, 156768	5.7	19
30	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. *Nanomaterials*, **2020**, 10,	5.4	5
29	Hardening of Additive Manufactured 316L Stainless Steel by Using Bimodal Powder Containing Nanoscale Fraction. *Materials*, **2020**, 14,	3.5	7
28	Nanoporous Materials: Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design (Adv. Mater. 6/2020). *Advanced Materials*, **2020**, 32, 2070044	24	
27	Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design. *Advanced Materials*, **2020**, 32, e1906160	24	36
26	Selective laser melting of high-strength, low-modulus Ti□5Nb□Zr□Ta alloy. *Materialia*, **2020**, 14, 100941	3.2	19
25	Dealloying-based metal-polymer composites for biomedical applications. *Scripta Materialia*, **2018**, 146, 290-294	5.6	44
24	Open porous dealloying-based biomaterials as a novel biomaterial platform. *Materials Science and Engineering C*, **2018**, 88, 95-103	8.3	47
23	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 733, 80-86	5.3	28
22	Tuning microstructure and mechanical properties of open porous TiNb and TiFe alloys by optimization of dealloying parameters. *Scripta Materialia*, **2018**, 154, 68-72	5.6	40
21	Nanoporous magnesium. *Nano Research*, **2018**, 11, 6428-6435	10	33
20	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 688, 20-26	5.3	184
19	Dealloying-based interpenetrating-phase nanocomposites matching the elastic behavior of human bone. *Scientific Reports*, **2017**, 7, 20	4.9	59
18	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 65, 866-871	4.1	77
17	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 673-678	5.3	19
16	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. *Technologies*, **2016**, 4, 33	2.4	16

15	Flash Joule heating for ductilization of metallic glasses. *Nature Communications*, **2015**, 6, 7932	17.4	55
14	Effect of Powder Particle Shape on the Properties of In Situ Ti□TiB Composite Materials Produced by Selective Laser Melting. *Journal of Materials Science and Technology*, **2015**, 31, 1001-1005	9.1	156
13	Effect of boron on microstructure and mechanical properties of multicomponent titanium alloys. *Materials Letters*, **2015**, 158, 111-114	3.3	19
12	High strength beta titanium alloys: New design approach. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 628, 297-302	5.3	53
11	Texture development in Ti/Al filament wires produced by accumulative swaging and bundling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 607, 360-367	5.3	7
10	In situ studies of temperature-dependent behaviour and crystallisation of Ni36.5Pd36.5P27 metallic glass. *Journal of Alloys and Compounds*, **2014**, 615, S208-S212	5.7	13
9	Processing of High Strength Light-Weight Metallic Composites. *Advanced Engineering Materials*, **2014**, 16, 1208-1216	3.5	11
8	Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured Ti□Nb□Ni□Co□Al alloys with bi-modal grain size distribution. *Materials & Design*, **2014**, 62, 14-20		21
7	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. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 457-463	5.3	25
6	Deformation and fracture behavior of composite structured Ti-Nb-Al-Co(-Ni) alloys. *Applied Physics Letters*, **2014**, 104, 071905	3.4	17
5	Microstructure and mechanical properties of new composite structured Ti□V□Al□Cu□Ni alloys for spring applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 603, 76-83	5.3	22
4	Effect of microstructure on the mechanical properties of as-cast Ti-Nb-Al-Cu-Ni alloys for biomedical application. *Materials Science and Engineering C*, **2013**, 33, 4795-801	8.3	31
3	Processing of Intermetallic Titanium Aluminide Wires. *Metals*, **2013**, 3, 188-201	2.3	14
2	Metallographic Preparation of Aluminium-Titanium Composites. *Praktische Metallographie/Practical Metallography*, **2013**, 50, 739-753	0.3	8
1	Ti-Al Composite Wires with High Specific Strength. *Metals*, **2011**, 1, 79-97	2.3	16