

# Ehsan Farabi

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

472  
citations

759233

12  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Five-parameter intervariant boundary characterization of martensite in commercially pure titanium. <i>Acta Materialia</i> , 2018, 154, 147-160.	7.9	72
2	Flow softening and dynamic recrystallization behavior of BT9 titanium alloy: A study using process map development. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1706-1718.	5.5	69
3	Strain rate dependence of ferrite dynamic restoration mechanism in a duplex low-density steel. <i>Materials and Design</i> , 2017, 132, 360-366.	7.0	30
4	High Temperature Formability Prediction of Dual Phase Brass Using Phenomenological and Physical Constitutive Models. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 209-220.	2.5	28
5	Rationalization of duplex brass hot deformation behavior: The role of microstructural components. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 360-368.	5.6	24
6	On the grain boundary network characteristics in a martensitic Ti-6Al-4V alloy. <i>Journal of Materials Science</i> , 2020, 55, 15299-15321.	3.7	24
7	Approving Restoration Mechanism in 7075 Aluminum Alloy through Constitutive Flow Behavior Modeling. <i>Advanced Engineering Materials</i> , 2016, 18, 989-1000.	3.5	20
8	On the role of process parameters on meltpool temperature and tensile properties of stainless steel 316L produced by powder bed fusion. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2438-2452.	5.8	20
9	Microstructure evolution of 316L stainless steel during solid-state additive friction stir deposition. <i>Philosophical Magazine</i> , 2022, 102, 618-633.	1.6	20
10	Sandwich structure printing of Ti-Ni-Ti by directed energy deposition. <i>Virtual and Physical Prototyping</i> , 2022, 17, 1006-1030.	10.4	20
11	A comprehensive study on meltpool depth in laser-based powder bed fusion of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 2345-2362.	3.0	16
12	Microstructure and mechanical properties of Ti6Al4V alloys fabricated by additive friction stir deposition. <i>Additive Manufacturing Letters</i> , 2022, 2, 100034.	2.1	15
13	Effect of pre-deformation mode on the microstructures and mechanical properties of Hadfield steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 251-258.	5.6	13
14	Outstanding Mild Wear Performance of Ti-9Nb-14Ta-4.5Zr Alloy Through Subsurface Grain Refinement and Supporting Effect of Transformation Induced Plasticity. <i>Metals and Materials International</i> , 2020, 26, 467-476.	3.4	13
15	Processing Map Development through Elaborating Phenomenological and Physical Constitutive Based Models. <i>Advanced Engineering Materials</i> , 2016, 18, 572-581.	3.5	12
16	Grain Refinement through Shear Banding in Severely Plastic Deformed A206 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1700502.	3.5	12
17	The role of phase transformation mechanism on the grain boundary network in a commercially pure titanium. <i>Materials Characterization</i> , 2020, 169, 110640.	4.4	11
18	Microstructural evolution and mechanical properties of accumulative back extruded duplex (Ti-6Al-4V) brass. <i>Materials Characterization</i> , 2019, 152, 101-114.	4.4	10

#	ARTICLE	IF	CITATIONS
19	Effect of manganese on the grain boundary network of lath martensite in precipitation hardenable stainless steels. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161333.	5.5	9
20	Development of high strength and ductile Zn-Al-Li alloys for potential use in bioresorbable medical devices. <i>Materials Science and Engineering C</i> , 2021, 122, 111897.	7.3	8
21	Development of New Third-Generation Medium Manganese Advanced High-Strength Steels Elaborating Hot-Rolling and Intercritical Annealing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4261-4274.	2.2	7
22	A comprehensive investigation of abrasive barrel finishing on hardness and manufacturability of laser-based powder bed fusion hollow components. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 3471-3490.	3.0	7
23	The role of thermomechanical processing routes on the grain boundary network of martensite in Ti-6Al-4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141665.	5.6	5
24	Novel Biodegradable Zn Alloy with Exceptional Mechanical and In Vitro Corrosion Properties for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5555-5572.	5.2	5
25	Throughput study of diffusion along the twin boundaries in Mg-5Sn-0.3Li as-cast alloy and its effect on the homogenization during hot deformation. <i>Materials Letters</i> , 2020, 281, 128446.	2.6	2