Jae-Keun Hong

List of Publications by Year
in descending order

28 papers	670 citations	516710 16 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	524 citing authors

#	Article	IF	Citations
1	Microstructures and mechanical properties of Inconel 718 welds by CO2 laser welding. Journal of Materials Processing Technology, 2008, 201, 515-520.	6.3	110
2	High strength and ductility of pure titanium via twin-structure control using cryogenic deformation. Scripta Materialia, 2020, 178, 94-98.	5.2	50
3	Microstructural response of Î²-stabilized Tiâ€“6Alâ€“4V manufactured by direct energy deposition. Journal of Alloys and Compounds, 2019, 811, 152021.	5.5	47
4	Realizing superior ductility of selective laser melted Ti-6Al-4V through a multi-step heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140367.	5.6	39
5	Deformation mechanism of metastable titanium alloy showing stress-induced Î±â€²-Martensitic transformation. Journal of Alloys and Compounds, 2019, 782, 427-432.	5.5	37
6	A Comparison Study of Fatigue Behavior of Hard and Soft Piezoelectric Single Crystal Macro-Fiber Composites for Vibration Energy Harvesting. Sensors, 2019, 19, 2196.	3.8	35
7	Simultaneous achievement of equiaxed grain structure and weak texture in pure titanium via selective laser melting and subsequent heat treatment. Journal of Alloys and Compounds, 2019, 803, 407-412.	5.5	33
8	Grade-4 commercially pure titanium with ultrahigh strength achieved by twinning-induced grain refinement through cryogenic deformation. Journal of Materials Science and Technology, 2021, 66, 193-201.	10.7	32
9	The Role of Nano-domains in {1â€“011} Twinned Martensite in Metastable Titanium Alloys. Scientific Reports, 2018, 8, 11914.	3.3	23
10	Simultaneous Improvement in the Strength and Formability of Commercially Pure Titanium via Twinning-induced Crystallographic Texture Control. Scientific Reports, 2019, 9, 2009.	3.3	23
11	High strength and ductility in low-cost Tiâ€“Alâ€“Feâ€“Mn alloy exhibiting transformation-induced plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138813.	5.6	23
12	Microstructure and strengthâ€“ductility balance of pure titanium processed by cryogenic rolling at various rolling reductions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140328.	5.6	23
13	Development of sub-grained Î±+Î² Ti alloy with high yield strength showing twinning- and transformation-induced plasticity. Journal of Alloys and Compounds, 2020, 813, 152102.	5.5	21
14	Modeling high-temperature mechanical properties of austenitic stainless steels by neural networks. Computational Materials Science, 2020, 179, 109617.	3.0	21
15	Formation of equiaxed grains in selective laser melted pure titanium during annealing. Journal of Materials Research and Technology, 2021, 11, 301-311.	5.8	20
16	Effects of Cr and Fe Addition on Microstructure and Tensile Properties of Tiâ€“6Alâ€“4V Prepared by Direct Energy Deposition. Metals and Materials International, 2018, 24, 1213-1220.	3.4	18
17	Novel eutectoid Ti-5Ni alloy fabricated via direct energy deposition. Scripta Materialia, 2021, 200, 113918.	5.2	16
18	High temperature isothermal oxidation behavior of electron beam melted multi-phase Î³-TiAl alloy. Intermetallics, 2022, 141, 107424.	3.9	14

#	Article	IF	Citations
19	Alloy design of metastable Î±+Î² titanium alloy with high elastic admissible strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140621.	5.6	13
20	Demonstration of martensite reorientation-induced plasticity by ultra-high strength titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 807, 140878.	5.6	13
21	Development of artificial neural networks software for arsenic adsorption from an aqueous environment. Environmental Research, 2022, 203, 111846.	7.5	12
22	Enhancing low-cycle fatigue life of commercially-pure Ti by deformation at cryogenic temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140698.	5.6	12
23	Tailoring bimodal structure for high strength and ductility in pure titanium manufactured via laser powder bed fusion. Journal of Alloys and Compounds, 2022, 901, 163590.	5.5	9
24	Optimization of process parameters for direct energy deposited Ti-6Al-4V alloy using neural networks. International Journal of Advanced Manufacturing Technology, 2021, 114, 3269-3283.	3.0	8
25	Cyclic Oxidation Behaviors of TiAlâ€“Nbâ€“Si-Based Alloys. Oxidation of Metals, 2016, 86, 417-430.	2.1	7
26	Effect of prior Î² grain size on the martensitic transformation of titanium alloys. Materials Characterization, 2021, 182, 111525.	4.4	6
27	Effect of Electric Current Heat Treatment on Commercially Pure Titanium Sheets. Metals, 2021, 11, 783.	2.3	4
28	Influence of Direct Energy Deposition Parameters on Tiâ€“6Alâ€“4V Componentâ€™s Structure-Property Homogeneity. Metals, 2021, 11, 887.	2.3	1