

# Weidong Huang

## List of Publications by Year in descending order

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papers

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citations

567281

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all docs

21  
docs citations

21  
times ranked

743  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ grain structure control in directed energy deposition of Ti6Al4V. Additive Manufacturing, 2022, 55, 102865.	3.0	10
2	Improved fatigue properties of laser powder bed fusion of Al-4.74Mg-0.70Sc-0.32Zr alloy via hot isostatic pressing. Materials Research Letters, 2022, 10, 720-727.	8.7	7
3	Simulation-assisted investigation on the formation of layer bands and the microstructural evolution in directed energy deposition of Ti6Al4V blocks. Virtual and Physical Prototyping, 2021, 16, 387-403.	10.4	16
4	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. Virtual and Physical Prototyping, 2020, 15, 570-582.	10.4	38
5	Element Vaporization of Ti-6Al-4V Alloy during Selective Laser Melting. Metals, 2020, 10, 435.	2.3	21
6	MgO Nanoparticles Protect against Titanium Particle-Induced Osteolysis in a Mouse Model Because of Their Positive Immunomodulatory Effect. ACS Biomaterials Science and Engineering, 2020, 6, 3005-3014.	5.2	13
7	Effect of layer band and heterogeneity of microstructure on electrochemical dissolution of laser solid formed Ti-6Al-4V alloy. Journal of Laser Applications, 2019, 31, .	1.7	6
8	Effects of Environmental pH on Macrophage Polarization and Osteoimmunomodulation. ACS Biomaterials Science and Engineering, 2019, 5, 5548-5557.	5.2	39
9	In situ measurements and thermo-mechanical simulation of Ti-6Al-4V laser solid forming processes. International Journal of Mechanical Sciences, 2019, 153-154, 119-130.	6.7	62
10	Microstructure and mechanical properties of laser solid formed 30Cr-2Mn-2Si-2Ni-2Al ultra-high-strength steel. Science and Technology of Welding and Joining, 2019, 24, 457-464.	3.1	5
11	Effects of deposition strategies on macro/microstructure and mechanical properties of wire and arc additive manufactured Ti 6Al 4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 735-749.	5.6	75
12	Residual stress and distortion of rectangular and S-shaped Ti-6Al-4V parts by Directed Energy Deposition: Modelling and experimental calibration. Additive Manufacturing, 2019, 26, 166-179.	3.0	120
13	Finite element analysis and experimental validation of the thermomechanical behavior in laser solid forming of Ti-6Al-4V. Additive Manufacturing, 2018, 21, 30-40.	3.0	81
14	Cellular Automaton Simulation of the Growth of Anomalous Eutectic during Laser Remelting Process. Materials, 2018, 11, 1844.	2.9	3
15	Microstructure formation of Ti-6Al-4V in synchronous induction assisted laser deposition. Materials and Design, 2018, 160, 1096-1105.	7.0	21
16	Formation mechanism of the $\beta$ variant and its influence on the tensile properties of laser solid formed Ti-6Al-4V titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 691, 16-24.	5.6	93
17	Numerical simulation and experimental calibration of additive manufacturing by blown powder technology. Part I: thermal analysis. Rapid Prototyping Journal, 2017, 23, 448-463.	3.2	88
18	Effect of microstructure on the fatigue crack growth behavior of laser solid formed 300M steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 258-264.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Effect of tempering temperature on microstructure and mechanical properties of laser solid formed 300M steel. <i>Journal of Alloys and Compounds</i> , 2016, 689, 225-232.	5.5	70
20	Microstructure and mechanical properties of laser solid formed 300M steel. <i>Journal of Alloys and Compounds</i> , 2015, 621, 35-41.	5.5	50
21	Heat-treated microstructure and mechanical properties of laser solid forming Ti-6Al-4V alloy. <i>Rare Metals</i> , 2009, 28, 537-544.	7.1	54