Sihai Luo

List of Publications by Year
in descending order

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10	360	1040056	1372567
papers	citations	9	10
		h-index	g-index

10	10	10	314
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fatigue strength improvement in Ti-6Al-4V subjected to foreign object damage by combined treatment of laser shock peening and shot peening. International Journal of Fatigue, 2022, 155, 106581.	5.7	32
2	Feasibility study of microscale laser shock processing without absorbing coating to improve high-cycle fatigue performance of DZ17G directionally solidified superalloy. Journal of Laser Applications, 2019, 31, 042007.	1.7	2
3	Simulation and Experimental Study on Residual Stress Distribution in Titanium Alloy Treated by Laser Shock Peening with Flat-Top and Gaussian Laser Beams. Materials, 2019, 12, 1343.	2.9	23
4	Effect of Residual Stress on Sâ€“N Curves and Fracture Morphology of Ti6Al4V Titanium Alloy after Laser Shock Peening without Protective Coating. Materials, 2019, 12, 3799.	2.9	14
5	The compound process of laser shock peening and vibratory finishing and its effect on fatigue strength of Ti-3.5Mo-6.5Al-1.5Zr-0.25Si titanium alloy. Journal of Alloys and Compounds, 2019, 783, 828-835.	5.5	43
6	Regain the fatigue strength of laser additive manufactured Ti alloy via laser shock peening. Journal of Alloys and Compounds, 2018, 750, 626-635.	5.5	77
7	High Cycle Fatigue Performance in Laser Shock Peened TC4 Titanium Alloys Subjected to Foreign Object Damage. Journal of Materials Engineering and Performance, 2018, 27, 1466-1474.	2.5	30
8	Surface Nanocrystallization and Amorphization of Dual-Phase TC11 Titanium Alloys under Laser Induced Ultrahigh Strain-Rate Plastic Deformation. Materials, 2018, 11, 563.	2.9	16
9	Laser shock peening induced surface nanocrystallization and martensite transformation in austenitic stainless steel. Journal of Alloys and Compounds, 2016, 655, 66-70.	5.5	78
10	The strengthening mechanism of a nickel-based alloy after laser shock processing at high temperatures. Science and Technology of Advanced Materials, 2013, 14, 055010.	6.1	45