

Philip J Depond

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

17 papers	1,695 citations	9 h-index	18 g-index
18 ext. papers	2,257 ext. citations	6.6 avg, IF	4.62 L-index

#	Paper	IF	Citations
17	Additively manufactured hierarchical stainless steels with high strength and ductility. <i>Nature Materials</i> , 2018 , 17, 63-71	27	872
16	Denudation of metal powder layers in laser powder bed fusion processes. <i>Acta Materialia</i> , 2016 , 114, 33-42	8.4	428
15	Effect of laser power on defect, texture, and microstructure of a laser powder bed fusion processed 316L stainless steel. <i>Materials and Design</i> , 2019 , 164, 107534	8.1	113
14	An instrument for in situ time-resolved X-ray imaging and diffraction of laser powder bed fusion additive manufacturing processes. <i>Review of Scientific Instruments</i> , 2018 , 89, 055101	1.7	91
13	In situ measurements of layer roughness during laser powder bed fusion additive manufacturing using low coherence scanning interferometry. <i>Materials and Design</i> , 2018 , 154, 347-359	8.1	91
12	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. <i>Scientific Reports</i> , 2020 , 10, 1981	4.9	29
11	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900455	3.5	23
10	Detecting keyhole pore defects and monitoring process signatures during laser powder bed fusion: A correlation between in situ pyrometry and ex situ X-ray radiography. <i>Additive Manufacturing</i> , 2020 , 35, 101336	6.1	22
9	Cooling dynamics of two titanium alloys during laser powder bed fusion probed with in situ X-ray imaging and diffraction. <i>Materials and Design</i> , 2020 , 195, 108987	8.1	11
8	Laser-metal interaction dynamics during additive manufacturing resolved by detection of thermally-induced electron emission. <i>Communications Materials</i> , 2020 , 1,	6	5
7	Rapid feedback of chemical vapor deposition growth mechanisms by operando X-ray diffraction. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 020601	1.3	3
6	Effect of laser power on roughness and porosity in laser powder bed fusion of stainless steel 316L alloys measured by X-ray tomography. <i>International Journal of Materials Research</i> , 2020 , 111, 47-54	0.5	2
5	Nondiffractive beam shaping for enhanced optothermal control in metal additive manufacturing. <i>Science Advances</i> , 2021 , 7, eabg9358	14.3	2
4	Thermal history and high-speed optical imaging of overhang structures during laser powder bed fusion: A computational and experimental analysis. <i>Additive Manufacturing</i> , 2022 , 53, 102669	6.1	2
3	A laser powder bed fusion system for operando synchrotron x-ray imaging and correlative diagnostic experiments at the Stanford Synchrotron Radiation Lightsource.. <i>Review of Scientific Instruments</i> , 2022 , 93, 043702	1.7	1
2	Nanoparticle-enhanced absorptivity of copper during laser powder bed fusion. <i>Additive Manufacturing</i> , 2022 , 51, 102562	6.1	0
1	Formation mechanisms of boron oxide films fabricated by large-area electron beam-induced deposition of trimethyl borate. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1282-1287	3	0

