

# Yuanbo Tang

## List of Publications by Year in descending order

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21  
papers

762  
citations

932766

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887659

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21  
docs citations

21  
times ranked

499  
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#	ARTICLE	IF	CITATIONS
1	On the Influence of Alloy Composition on the Additive Manufacturability of Ni-Based Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 962-983.	1.1	30
2	A new class of alumina-forming superalloy for 3D printing. Additive Manufacturing, 2022, 52, 102608.	1.7	5
3	On the solid-state dendritic growth of $M_7C_3$ carbide at interfaces in an austenitic system. Scripta Materialia, 2022, 213, 114585.	2.6	5
4	Alloys-by-design: A low-modulus titanium alloy for additively manufactured biomedical implants. Acta Materialia, 2022, 229, 117749.	3.8	39
5	$\beta$ variant-sensitive deformation behaviour of Inconel 718 superalloy. Journal of Materials Science and Technology, 2022, 126, 169-181.	5.6	7
6	Overheating of Waspaloy: Effect of cooling rate on flow stress behavior. Materials and Design, 2022, 221, 110911.	3.3	5
7	Ultra-high temperature deformation in a single crystal superalloy: Mesoscale process simulation and micromechanisms. Acta Materialia, 2021, 203, 116468.	3.8	19
8	Alloys-by-design: Application to new superalloys for additive manufacturing. Acta Materialia, 2021, 202, 417-436.	3.8	231
9	Profilometry-based indentation plastometry to obtain stress-strain curves from anisotropic superalloy components made by additive manufacturing. Materialia, 2021, 15, 101017.	1.3	24
10	A novel low-modulus titanium alloy for biomedical applications: A comparison between selective laser melting and metal injection moulding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141081.	2.6	26
11	Additive manufacturability of superalloys: Process-induced porosity, cooling rate and metal vapour. Additive Manufacturing, 2021, 47, 102339.	1.7	3
12	On the size and orientation effect in additive manufactured Ti-6Al-4V. Materials and Design, 2020, 186, 108235.	3.3	95
13	The Effect of Heat Treatment on Tensile Yielding Response of the New Superalloy ABD-900AM for Additive Manufacturing. Minerals, Metals and Materials Series, 2020, , 1055-1065.	0.3	10
14	Metal 3D printing as a disruptive technology for superalloys. Nature Communications, 2020, 11, 2327.	5.8	159
15	On the Influence of Alloy Chemistry and Processing Conditions on Additive Manufacturability of Ni-Based Superalloys. Minerals, Metals and Materials Series, 2020, , 153-162.	0.3	7
16	Additive Manufacturability of Nickel-Based Superalloys: Composition-Process Induced Vapourization. Minerals, Metals and Materials Series, 2020, , 1024-1032.	0.3	1
17	On Optimising Ring-Rolling Manufacturability of C&W Nickel Superalloys for Aero-engine Turbine Disc. Minerals, Metals and Materials Series, 2020, , 408-420.	0.3	0
18	Grain boundary serration in nickel alloy inconel 600: Quantification and mechanisms. Acta Materialia, 2019, 181, 352-366.	3.8	41

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19	Grain Boundary Serration in Nickel-Based Superalloy Inconel 600: Generation and Effects on Mechanical Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4324-4342.	1.1	53
20	Use of Profilometry-Based Indentation Plastometry to Obtain Stress-Strain Curves from Small Superalloy Components Made by Additive Manufacturing. SSRN Electronic Journal, 0, , .	0.4	1
21	Use of Indentation Plastometry to Obtain Stress-Strain Curves from Small Superalloy Components Made by Additive Manufacturing. SSRN Electronic Journal, 0, , .	0.4	1