

J Hidalgo

List of Publications by Year in descending order

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26
papers

825
citations

687220

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docs citations

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times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	A Data-Driven Approach for Studying the Influence of Carbides on Work Hardening of Steel. <i>Materials</i> , 2022, 15, 892.	1.3	1
2	Assessing the scale contributing factors of three carbide-free bainitic steels: A complementary theoretical and experimental approach. <i>Materials and Design</i> , 2021, 197, 109217.	3.3	18
3	The role of plastic strains on variant selection in ausformed bainitic microstructures studied by finite elements and crystal plasticity simulations. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1416-1430.	2.6	4
4	Prospects of producing solid oxide fuels interconnectors processed by metal injection moulding. <i>Results in Engineering</i> , 2021, 11, 100268.	2.2	4
5	Use of the Correlation between Grain Size and Crystallographic Orientation in Crystal Plasticity Simulations: Application to AISI 420 Stainless Steel. <i>Crystals</i> , 2020, 10, 819.	1.0	5
6	Unravelling the mechanical behaviour of advanced multiphase steels isothermally obtained below M. <i>Materials and Design</i> , 2020, 188, 108484.	3.3	16
7	Influence of M23C6 carbides on the heterogeneous strain development in annealed 420 stainless steel. <i>Acta Materialia</i> , 2020, 200, 74-90.	3.8	26
8	Metal injection molding (MIM) of stainless steel. , 2019, , 409-429.		0
9	Fracture mechanisms and microstructure in a medium Mn quenching and partitioning steel exhibiting macrosegregation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 766-777.	2.6	48
10	Interplay between metastable phases controls strength and ductility in steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 185-194.	2.6	15
11	Influence of the prior athermal martensite on the mechanical response of advanced bainitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 735, 343-353.	2.6	26
12	Controlling the work hardening of martensite to increase the strength/ductility balance in quenched and partitioned steels. <i>Materials and Design</i> , 2017, 117, 248-256.	3.3	64
13	Thermal and mechanical stability of retained austenite surrounded by martensite with different degrees of tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 337-347.	2.6	145
14	Characterization of bainitic/martensitic structures formed in isothermal treatments below the M _s temperature. <i>Materials Characterization</i> , 2017, 128, 248-256.	1.9	108
15	Effect of Prior Austenite Grain Size Refinement by Thermal Cycling on the Microstructural Features of As-Quenched Lath Martensite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5288-5301.	1.1	159
16	Capillary rheology studies of INVAR 36 feedstocks for powder injection moulding. <i>Powder Technology</i> , 2015, 273, 1-7.	2.1	23
17	Optimisation of eco-friendly binary binder system for powder injection moulding. <i>Powder Metallurgy</i> , 2014, 57, 196-203.	0.9	9
18	Mechanical and functional properties of Invar alloy for MIM. <i>Powder Metallurgy</i> , 2014, 57, 127-136.	0.9	14

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19	Water soluble Invar 36 feedstock development for $\frac{1}{4}$ PIM. Journal of Materials Processing Technology, 2014, 214, 436-444.	3.1	14
20	Thermal stability and degradation kinetics of feedstocks for powder injection moulding – A new way to determine optimal solid loading?. Polymer Degradation and Stability, 2013, 98, 1188-1195.	2.7	17
21	Effect of the particle size and solids volume fraction on the thermal degradation behaviour of Invar 36 feedstocks. Polymer Degradation and Stability, 2013, 98, 2546-2555.	2.7	12
22	Effect of a binder system on the low-pressure powder injection moulding of water-soluble zircon feedstocks. Journal of the European Ceramic Society, 2013, 33, 3185-3194.	2.8	25
23	Powder injection moulding: processing of small parts of complex shape. International Journal of Microstructure and Materials Properties, 2013, 8, 87.	0.1	12
24	Torque rheology of zircon feedstocks for powder injection moulding. Journal of the European Ceramic Society, 2012, 32, 4063-4072.	2.8	57
25	Isotonic regression for metallic microstructure data: estimation and testing under order restrictions. Journal of Applied Statistics, 0, , 1-20.	0.6	2
26	Influence of M ₂₃ C ₆ Carbides on the Heterogeneous Strain Development in Annealed 420 Stainless Steel. SSRN Electronic Journal, 0, , .	0.4	1