

J Hidalgo

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

825
citations

687220

13
h-index

642610

23
g-index

26
all docs

26
docs citations

26
times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Torque rheology of zircon feedstocks for powder injection moulding. <i>Journal of the European Ceramic Society</i> , 2012, 32, 4063-4072.	2.8	57
6	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
7	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
8	Influence of M ₂₃ C ₆ carbides on the heterogeneous strain development in annealed 420 stainless steel. <i>Acta Materialia</i> , 2020, 200, 74-90.	3.8	26
9	Effect of a binder system on the low-pressure powder injection moulding of water-soluble zircon feedstocks. <i>Journal of the European Ceramic Society</i> , 2013, 33, 3185-3194.	2.8	25
10	Capillary rheology studies of INVAR 36 feedstocks for powder injection moulding. <i>Powder Technology</i> , 2015, 273, 1-7.	2.1	23
11	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
12	Thermal stability and degradation kinetics of feedstocks for powder injection moulding – A new way to determine optimal solid loading?. <i>Polymer Degradation and Stability</i> , 2013, 98, 1188-1195.	2.7	17
13	Unravelling the mechanical behaviour of advanced multiphase steels isothermally obtained below M _s . <i>Materials and Design</i> , 2020, 188, 108484.	3.3	16
14	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
15	Mechanical and functional properties of Invar alloy for $\frac{1}{4}$ -MIM. <i>Powder Metallurgy</i> , 2014, 57, 127-136.	0.9	14
16	Water soluble Invar 36 feedstock development for $\frac{1}{4}$ PIM. <i>Journal of Materials Processing Technology</i> , 2014, 214, 436-444.	3.1	14
17	Effect of the particle size and solids volume fraction on the thermal degradation behaviour of Invar 36 feedstocks. <i>Polymer Degradation and Stability</i> , 2013, 98, 2546-2555.	2.7	12
18	Powder injection moulding: processing of small parts of complex shape. <i>International Journal of Microstructure and Materials Properties</i> , 2013, 8, 87.	0.1	12

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19	Optimisation of eco-friendly binary binder system for powder injection moulding. Powder Metallurgy, 2014, 57, 196-203.	0.9	9
20	Use of the Correlation between Grain Size and Crystallographic Orientation in Crystal Plasticity Simulations: Application to AISI 420 Stainless Steel. Crystals, 2020, 10, 819.	1.0	5
21	The role of plastic strains on variant selection in ausformed bainitic microstructures studied by finite elements and crystal plasticity simulations. Journal of Materials Research and Technology, 2021, 13, 1416-1430.	2.6	4
22	Prospects of producing solid oxide fuels interconnectors processed by metal injection moulding. Results in Engineering, 2021, 11, 100268.	2.2	4
23	Isotonic regression for metallic microstructure data: estimation and testing under order restrictions. Journal of Applied Statistics, 0, , 1-20.	0.6	2
24	Influence of M ₂₃ C ₆ Carbides on the Heterogeneous Strain Development in Annealed 420 Stainless Steel. SSRN Electronic Journal, 0, , .	0.4	1
25	A Data-Driven Approach for Studying the Influence of Carbides on Work Hardening of Steel. Materials, 2022, 15, 892.	1.3	1
26	Metal injection molding (MIM) of stainless steel. , 2019, , 409-429.		0