

Rainer Fechte-Heinen

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

58
citations

1684188

5
h-index

1720034

7
g-index

13
all docs

13
docs citations

13
times ranked

20
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Absorption during Case Hardening of Steels EN20MnCr5 (SAE5120) and EN18CrNiMo7-6 (SAE4820). <i>Metals</i> , 2022, 12, 6.	2.3	3
2	Processability of a Hot Work Tool Steel Powder Mixture in Laser-Based Powder Bed Fusion. <i>Materials</i> , 2022, 15, 2658.	2.9	4
3	Quantification of extremely small-structured ferritic-austenitic phase fractions in stainless steels manufactured by laser powder bed fusion. <i>Materialia</i> , 2022, 22, 101393.	2.7	7
4	Influence of the Nitrided Layer Structure on the Micro-Pitting and Wear Behavior of Slow-Running Nitrided External Gears. <i>Lubricants</i> , 2022, 10, 88.	2.9	7
5	Laser Additive Manufacturing of Duplex Stainless Steel via Powder Mixture. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 72.	2.2	8
6	Influence of Different Alloying Strategies on the Mechanical Behavior of Tool Steel Produced by Laser-Powder Bed Fusion. <i>Materials</i> , 2021, 14, 3344.	2.9	3
7	Impact of the Allowed Compositional Range of Additively Manufactured 316L Stainless Steel on Processability and Material Properties. <i>Materials</i> , 2021, 14, 4074.	2.9	5
8	Comparison of the Processability and Influence on the Microstructure of Different Starting Powder Blends for Laser Powder Bed Fusion of a Fe3.5Si1.5C Alloy. <i>Metals</i> , 2021, 11, 1107.	2.3	0
9	Syntactic Iron Foamsâ€™ Properties Tailored by Means of Case Hardening via Carburizing or Carbonitriding. <i>Materials</i> , 2021, 14, 4358.	2.9	3
10	Additive manufacturing of a carbon-martensitic hot-work tool steel using a powder mixture â€™“ Microstructure, post-processing, mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142038.	5.6	12
11	Processing and Mechanical Properties of Highly Formable Ferritic High Strength Steel Containing Titanium Nanocarbides for Automotive Applications. <i>Materials Science Forum</i> , 2018, 941, 382-385.	0.3	0
12	About lamination upper and convexification lower bounds on the free energy of monoclinic shape memory alloys in the context of T 3-configurations and R-phase formation. <i>Continuum Mechanics and Thermodynamics</i> , 2016, 28, 1601-1621.	2.2	2
13	Upper and lower bounds on the set of recoverable strains and on effective energies in cubic-to-monoclinic martensitic phase transformations. <i>MATEC Web of Conferences</i> , 2015, 33, 02011.	0.2	4