

# Rainer Fechte-Heinen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8752639/publications.pdf>

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