

# Tim Radel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5593150/publications.pdf>

Version: 2024-02-01

14  
papers

124  
citations

1478505

6  
h-index

1281871

11  
g-index

14  
all docs

14  
docs citations

14  
times ranked

119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wetting behavior of eutectic Al-Si droplets on zinc coated steel substrates. Journal of Materials Processing Technology, 2014, 214, 123-131.	6.3	46
2	Wetting and solidification characteristics of aluminium on zinc coated steel in laser welding and brazing. Journal of Materials Processing Technology, 2016, 238, 352-360.	6.3	20
3	Process Signature for Laser Hardening. Metals, 2021, 11, 465.	2.3	14
4	Laser Deep Penetration Welding of an Aluminum Alloy with Simultaneously Applied Vibrations. Lasers in Manufacturing and Materials Processing, 2017, 4, 1-12.	2.2	13
5	Influence of multi-pass laser hardening of normalized AISI 4140 on the grain size. Surface and Coatings Technology, 2021, 421, 127434.	4.8	10
6	Reduction of hot cracking susceptibility during laser welding of aluminum by vibrations. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 599-606.	2.5	8
7	Experimental and Numerical Investigation of an Overheated Aluminum Droplet Wetting a Zinc-Coated Steel Surface. Metals, 2017, 7, 535.	2.3	3
8	Correlation between Shock Wave-induced Indentations and Tensile Strength. Procedia Manufacturing, 2020, 47, 756-760.	1.9	3
9	Change of Oxidation Mechanisms by Laser Chemical Machined Rim Zone Modifications of 42CrMo4 Steel. Materials, 2021, 14, 3910.	2.9	3
10	Experimental and numerical investigations regarding laser drop on demand jetting of Cu alloys. Production Engineering, 2017, 11, 275-284.	2.3	1
11	Time-Resolved Force Measurements to Determine Positioning Tolerances for Impulse-Based Indentations. Lasers in Manufacturing and Materials Processing, 2021, 8, 216-235.	2.2	1
12	Extension of the Process Window in Laser Chemical Machining by Temperature-Dependent Reduction of the Electrolyte Viscosity. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1461-1467.	2.2	1
13	Reducing scatter in bent angle by a laser shock peening pretreatment. Journal of Laser Applications, 2021, 33, 042016.	1.7	1
14	Identification of Characteristic Values in Impulse-Based Processes Using Small Specimens. Nanomanufacturing and Metrology, 0, , .	3.0	0