

# Tim Radel

## List of Publications by Year in descending order

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14  
papers

124  
citations

1478505

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1281871

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times ranked

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