

# Alexander KrÄdel

## List of Publications by Year in descending order

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19  
papers

154  
citations

1307594

7  
h-index

1281871

11  
g-index

19  
all docs

19  
docs citations

19  
times ranked

134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of metal working fluid on chip formation and mechanical loads in orthogonal cutting. International Journal of Advanced Manufacturing Technology, 2022, 118, 3005-3013.	3.0	9
2	Suitability of natural rocks as materials for cutting tools. SN Applied Sciences, 2022, 4, 1.	2.9	5
3	A novel approach to determine the velocity dependency of the friction behavior during machining by means of digital particle image velocimetry (DPIV). CIRP Journal of Manufacturing Science and Technology, 2021, 32, 81-90.	4.5	11
4	Prediction of plastic surface defects for 5-axis ball end milling of Ti-6Al-4V with rounded cutting edges using a material removal simulation. CIRP Annals - Manufacturing Technology, 2021, 70, 91-94.	3.6	4
5	Surface topography after deep rolling with milling kinematics. Production Engineering, 2021, 15, 587-593.	2.3	4
6	Numerical and experimental analysis of thermal and mechanical tool load when turning AISI 52100 with ground cutting edge microgeometries. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 494-501.	4.5	7
7	Pulsed laser micro ablation of polycrystalline cubic boron nitride. Procedia CIRP, 2020, 94, 823-828.	1.9	1
8	Grinding of transformation-toughened mixed oxide ceramic. International Journal of Advanced Manufacturing Technology, 2020, 109, 1463-1478.	3.0	10
9	Influence of thermal effects in turn-rolling. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 294-304.	4.5	1
10	Production-Related Surface and Subsurface Properties and Fatigue Life of Hybrid Roller Bearing Components. Metals, 2020, 10, 1339.	2.3	5
11	Production of chip breakers on cemented carbide tools using laser ablation. Procedia CIRP, 2020, 94, 834-839.	1.9	5
12	Influence of Cemented Carbide Composition on Cutting Temperatures and Corresponding Hot Hardnesses. Materials, 2020, 13, 4571.	2.9	10
13	Time-domain simulation of milling processes including process damping. CIRP Journal of Manufacturing Science and Technology, 2020, 30, 149-156.	4.5	7
14	Additive manufacturing of metal-bonded grinding tools. International Journal of Advanced Manufacturing Technology, 2020, 107, 2387-2395.	3.0	20
15	Novel continuous generating grinding process for the production of cutting tools. CIRP Journal of Manufacturing Science and Technology, 2020, 28, 1-7.	4.5	6
16	On the pulsed laser ablation of polycrystalline cubic boron nitride—Influence of pulse duration and material properties on ablation characteristics. Journal of Laser Applications, 2019, 31, 022004.	1.7	7
17	Influence of pulsed laser ablation on the surface integrity of PCBN cutting tool materials. International Journal of Advanced Manufacturing Technology, 2019, 101, 1687-1698.	3.0	10
18	Cutting mechanism and surface integrity in milling of Ti-5553 processed by selective laser melting. Journal of Mechanical Science and Technology, 2018, 32, 4883-4892.	1.5	30

#	ARTICLE	IF	CITATIONS
19	Laser ablation and processing of polycrystalline cubic boron nitride cutting tool material. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	2