

# Kazimierz A Orlowski

## List of Publications by Year in descending order

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36  
papers

333  
citations

840585

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940416

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g-index

36  
all docs

36  
docs citations

36  
times ranked

192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of fracture mechanics for energetic effects predictions while wood sawing. Wood Science and Technology, 2013, 47, 949-963.	1.4	41
2	The critical rotational speed of circular saw: simple measurement method and its practical implementations. Journal of Wood Science, 2007, 53, 388-393.	0.9	24
3	Effect of pine impregnation and feed speed on sound level and cutting power in wood sawing. Journal of Cleaner Production, 2020, 272, 122833.	4.6	20
4	Surface Roughness Evaluation in Thin EN AW-6086-T6 Alloy Plates after Face Milling Process with Different Strategies. Materials, 2021, 14, 3036.	1.3	18
5	Recent progress in research on the cutting processes of wood. A review COST Action E35 2004â€“2008: Wood machining â€“ micromechanics and fracture. Holzforschung, 2009, 63, 181-185.	0.9	17
6	The Effect of Wood Provenance and Density on Cutting Forces While Sawing Scots Pine (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.5	17
7	Effect of Thermal Treatment of Birch Wood by Saturated Water Vapor on Granulometric Composition of Chips from Sawing and Milling Processes from the Point of View of Its Processing to Composites. Applied Sciences (Switzerland), 2020, 10, 7545.	1.3	16
8	Sawing Processes as a Way of Determining Fracture Toughness and Shear Yield Stresses of Wood. BioResources, 2015, 10, .	0.5	16
9	Revisiting the estimation of cutting power with different energetic methods while sawing soft and hard woods on the circular sawing machine: a Central European case. Wood Science and Technology, 2020, 54, 457-477.	1.4	15
10	Estimation of fracture toughness and shear yield stress of orthotropic materials in cutting with rotating tools. Engineering Fracture Mechanics, 2017, 178, 433-444.	2.0	13
11	Cutting model parameters from frame sawing of natural and impregnated Scots pine (Pinus sylvestris) Tj ETQq1 1 0.784314 rgBT /Overl	1.3	13
12	Effect of the Drying Method of Pine and Beech Wood on Fracture Toughness and Shear Yield Stress. Materials, 2020, 13, 4692.	1.3	11
13	Influence of drying mode and feed per tooth rate on the fine dust creation in pine and beech sawing on a mini sash gang saw. European Journal of Wood and Wood Products, 2021, 79, 91-99.	1.3	11
14	The effect of beech wood (<i>Fagus sylvatica</i>L.) steaming process on the colour change versus depth of tested wood layer. Wood Material Science and Engineering, 2022, 17, 420-428.	1.1	11
15	Fracture toughness and shear yield strength determination for two selected species of central European provenance. BioResources, 2018, 13, 6171-6186.	0.5	9
16	Study washboarding phenomenon in frame sawing machines. European Journal of Wood and Wood Products, 2006, 64, 37-44.	1.3	8
17	A newly-developed model for predicting cutting power during wood sawing with circular saw blades. Maderas: Ciencia Y Tecnologia, 2017, , 0-0.	0.7	8
18	On-Line Measurement of Wood Surface Smoothness. Drvna Industrija, 2020, 71, 193-200.	0.3	8

#	ARTICLE	IF	CITATIONS
19	The Design Development of the Sliding Table Saw Towards Improving Its Dynamic Properties. Applied Sciences (Switzerland), 2020, 10, 7386.	1.3	7
20	The Influence of Drying Temperature on Color Change of Hornbeam and Maple Wood Used as Surface and Inner Layers of Wood Composites. Applied Sciences (Switzerland), 2021, 11, 10673.	1.3	7
21	An Innovative Approach to the Forecasting of Energetic Effects While Wood Sawing. Drvna Industrija, 2014, 65, 273-281.	0.3	6
22	Economical Wood Sawing with Circular Saw Blades of a New Design. Drvna Industrija, 2012, 63, 27-32.	0.3	5
23	Experimental research of the effect of face milling strategy on the flatness deviations. Materials and Manufacturing Processes, 2021, 36, 235-244.	2.7	5
24	Experimental Examination and Modification of Chip Suction System in Circular Sawing Machine. Drvna Industrija, 2018, 69, 223-230.	0.3	4
25	Mathematical model of the energy consumption calculation during the pine sawn wood (Pinus Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	4
26	A Method and Device for 3D Recognition of Cutting Edge Micro Geometry. Drvna Industrija, 2014, 65, 11-19.	0.3	3
27	THE EFFECT OF ALTERNATIVE CUTTER PATHS ON FLATNESS DEVIATIONS IN THE FACE MILLING OF ALUMINUM PLATE PARTS. Journal of Machine Engineering, 2018, Vol.18, 81-88.	0.9	3
28	Thickness accuracy of sash gang sawing. BioResources, 2020, 15, 9362-9374.	0.5	3
29	Lateral forces determine dimensional accuracy of the narrow-kerf sawing of wood. Scientific Reports, 2022, 12, 86.	1.6	3
30	A Critical Reanalysis of Uncontrollable Washboarding Phenomenon in Metal Band Sawing. Materials, 2020, 13, 4472.	1.3	2
31	Characterization of Arctic Driftwood as Naturally Modified Material. Part 1: Machinability. Coatings, 2021, 11, 278.	1.2	2
32	Analysis of the design development of the sliding table saw spindles. , 2017, , 849-851.	0.2	1
33	MACHINE VISION DETECTION OF THE CIRCULAR SAW VIBRATIONS. Journal of Machine Engineering, 2018, 18, 68-78.	0.9	1
34	Recovering Evaluation of Narrow-Kerf Teeth of Mini Sash Gang Saws. Materials, 2021, 14, 7459.	1.3	1
35	Mechatronic System for Automatic Inspection of Circular Saw Teeth. Solid State Phenomena, 2010, 164, 73-78.	0.3	0
36	Analyses of Shear Angle in Orthogonal Cutting of Pine Wood. Drvna Industrija, 2022, 73, 309-315.	0.3	0