List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9127952/publications.pdf Version: 2024-02-01



SERCEL HLOCH

#	Article	IF	CITATIONS
1	Wear Assessment of Conical Pick used in Coal Cutting Operation. Rock Mechanics and Rock Engineering, 2015, 48, 2129-2139.	5.4	66
2	Ultrasonically generated pulsed water jet peening of austenitic stainless-steel surfaces. Journal of Manufacturing Processes, 2018, 32, 455-468.	5.9	66
3	Multi response optimization of process parameters based on Taguchi—Fuzzy model for coal cutting by water jet technology. International Journal of Advanced Manufacturing Technology, 2011, 56, 1019-1025.	3.0	65
4	Determination of vibration frequency depending on abrasive mass flow rate during abrasive water jet cutting. International Journal of Advanced Manufacturing Technology, 2015, 77, 763-774.	3.0	62
5	Roughness Parameters Calculation By Means Of On-Line Vibration Monitoring Emerging From AWJ Interaction With Material. Metrology and Measurement Systems, 2015, 22, 315-326.	1.4	62
6	Topographical anomaly on surfaces created by abrasive waterjet. International Journal of Advanced Manufacturing Technology, 2012, 59, 593-604.	3.0	61
7	Investigation of wear and tool life of coated carbide and cubic boron nitride cutting tools in high speed milling. Advances in Mechanical Engineering, 2015, 7, 168781401559021.	1.6	61
8	Residual stress and surface properties of stainless steel welded joints induced by ultrasonic pulsed water jet peening. Measurement: Journal of the International Measurement Confederation, 2018, 127, 453-462.	5.0	59
9	Surface geometric parameters proposal for the advanced control of abrasive waterjet technology. International Journal of Advanced Manufacturing Technology, 2009, 41, 323-328.	3.0	51
10	An influence of active additives on the formation of selected indicators of the condition of the X10CrNi18-8 stainless steel surface layer in MQCL conditions. International Journal of Surface Science and Engineering, 2015, 9, 452.	0.4	51
11	Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques. International Journal of Advanced Manufacturing Technology, 2017, 93, 433-443.	3.0	51
12	Potential of Using Water Jet Peening as a Surface Treatment Process for Welded Joints. Procedia Engineering, 2016, 149, 472-480.	1.2	50
13	Surface integrity and residual stress analysis of pulsed water jet peened stainless steel surfaces. Measurement: Journal of the International Measurement Confederation, 2019, 143, 81-92.	5.0	50
14	Joint strength evaluation of friction stir welded Al-Cu dissimilar alloys. Measurement: Journal of the International Measurement Confederation, 2019, 146, 892-902.	5.0	47
15	Surface integrity in tangential turning of hybrid MMC A359/B4C/Al2O3 by abrasive waterjet. Journal of Manufacturing Processes, 2017, 28, 11-20.	5.9	43
16	Acoustic emission for interlaminar toughness testing of CFRP: Evaluation of the crack growth due to burst analysis. Composites Part B: Engineering, 2018, 136, 55-62.	12.0	40
17	Hybrid aluminium matrix composite AWJ turning using olivine and Barton garnet. International Journal of Advanced Manufacturing Technology, 2018, 94, 2293-2300.	3.0	39
18	Determination of layer thickness in direct metal deposition using dimensional analysis. International Journal of Advanced Manufacturing Technology, 2013, 67, 2681-2687.	3.0	37

#	Article	IF	CITATIONS
19	Wear characteristics and defects analysis of friction stir welded joint of aluminium alloy 6061-T6. Eksploatacja I Niezawodnosc, 2016, 18, 128-135.	2.0	37
20	Hydrodynamic ductile erosion of aluminium by a pulsed water jet moving in an inclined trajectory. Wear, 2019, 428-429, 178-192.	3.1	36
21	Experimental analysis of irregularities of metallic surfaces generated by abrasive waterjet. International Journal of Machine Tools and Manufacture, 2007, 47, 1786-1790.	13.4	34
22	Investigation of sandstone erosion by continuous and pulsed water jets. Journal of Manufacturing Processes, 2019, 42, 121-130.	5.9	34
23	Surface integrity analysis of abrasive water jet-cut surfaces of friction stir welded joints. International Journal of Advanced Manufacturing Technology, 2017, 88, 1687-1701.	3.0	33
24	Sandstone Turning by Abrasive Waterjet. Rock Mechanics and Rock Engineering, 2015, 48, 2489-2493.	5.4	32
25	Turning of wood plastic composites by water jet and abrasive water jet. International Journal of Advanced Manufacturing Technology, 2016, 84, 1615.	3.0	32
26	Acoustic chamber length performance analysis in ultrasonic pulsating water jet erosion of ductile material. Journal of Manufacturing Processes, 2019, 47, 347-356.	5.9	31
27	Vibration emission as a potential source of information for abrasive waterjet quality process control. International Journal of Advanced Manufacturing Technology, 2012, 61, 285-294.	3.0	29
28	Using the acoustic sound pressure level for quality prediction of surfaces created by abrasive waterjet. International Journal of Advanced Manufacturing Technology, 2010, 48, 193-203.	3.0	28
29	Prediction of distribution relationship of titanium surface topography created by abrasive waterjet. International Journal of Surface Science and Engineering, 2011, 5, 152.	0.4	27
30	Effect of pressure of pulsating water jet moving along stair trajectory on erosion depth, surface morphology and microhardness. Wear, 2020, 452-453, 203278.	3.1	26
31	Monitoring of Acoustic Emission During the Disintegration of Rock. Procedia Engineering, 2016, 149, 481-488.	1.2	25
32	Tangential turning of Incoloy alloy 925 using abrasive water jet technology. International Journal of Advanced Manufacturing Technology, 2016, 82, 1747-1752.	3.0	25
33	Application of the pulsating and continous water jet for granite erosion. International Journal of Rock Mechanics and Minings Sciences, 2020, 126, 104209.	5.8	25
34	Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED. Measurement: Journal of the International Measurement Confederation, 2019, 131, 628-639.	5.0	24
35	A Study of Thermal Behaviour during Submerged Arc Welding. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, 333-338.	1.1	23
36	Heat input effect of friction stir welding on aluminium alloy AA 6061-T6 welded joint. Thermal Science, 2016, 20, 637-641.	1.1	23

#	Article	IF	CITATIONS
37	Critical Damage Analysis of WC-Co Tip of Conical Pick due to Coal Excavation in Mines. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.8	22
38	Pulsating water jet erosion effect on a brass flat solid surface. International Journal of Advanced Manufacturing Technology, 2018, 97, 1099-1112.	3.0	22
39	Critical Investigation of Wear Behaviour of WC Drill Bit Buttons. Rock Mechanics and Rock Engineering, 2013, 46, 169-177.	5.4	21
40	Design and experimental study of turning tools with linear cutting edges and comparison to commercial tools. International Journal of Advanced Manufacturing Technology, 2016, 85, 2325-2343.	3.0	21
41	Utilization of ultrasonically forced pulsating water jet decaying for bone cement removal. International Journal of Advanced Manufacturing Technology, 2020, 110, 829-840.	3.0	21
42	On-line measurement and monitoring of pulsating saline and water jet disintegration of bone cement with frequency 20â€kHz. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106828.	5.0	20
43	Online Monitoring and Analysis of Hydroabrasive Cutting by Vibration. Advances in Mechanical Engineering, 2013, 5, 894561.	1.6	20
44	Analysis of acoustic emission emerging during hydroabrasive cutting and options for indirect quality control. International Journal of Advanced Manufacturing Technology, 2013, 66, 45-58.	3.0	19
45	On-line monitoring of technological process of material abrasive water jet cutting. Tehnicki Vjesnik, 2015, 22, 351-357.	0.2	18
46	Hydroabrasive disintegration of rotating Monel K-500 workpiece. International Journal of Advanced Manufacturing Technology, 2018, 96, 981-1001.	3.0	17
47	Influence of the frequency and flow rate of a pulsating water jet on the wear damage of tantalum. Wear, 2021, 477, 203893.	3.1	17
48	Material Utilization of Cotton Post-Harvest Line Residues in Polymeric Composites. Polymers, 2019, 11, 1106.	4.5	16
49	Optical measurement of surface and topographical parameters investigation created by Abrasive Waterjet. International Journal of Surface Science and Engineering, 2009, 3, 360.	0.4	15
50	Effect of laser power and welding speed on microstructure and mechanical properties of fibre laser-welded Inconel 617 thin sheet. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4579-4588.	1.6	15
51	Employing the Waves to Measure Longitudinal Residual Stresses in Different Depths of a Stainless Steel Welded Plate. Advances in Materials Science and Engineering, 2013, 2013, 1-8.	1.8	14
52	Inverse Processing of Undefined Complex Shape Parts from Structural High Alloyed Tool Steel. Advances in Mechanical Engineering, 2014, 6, 478748.	1.6	14
53	Surface and Subsurface Analysis of Stainless Steel and Titanium Alloys Exposed to Ultrasonic Pulsating Water Jet. Materials, 2021, 14, 5212.	2.9	14
54	New way to take control of a structural grain size in the formation of nanomaterials by extrusion. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 405-411.	0.9	13

#	Article	IF	CITATIONS
55	Surface Integrity Evaluation of Brass CW614N after Impact of Acoustically Excited Pulsating Water Jet. Procedia Engineering, 2016, 149, 236-244.	1.2	13
56	Influence of Abrasive Water Jet Turning Parameters on Variation of Diameter of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2018, , 495-504.	0.4	13
57	Surface integrity in wire-EDM tangential turning of <i>in situ</i> hybrid metal matrix composite A359/B ₄ C/Al ₂ O ₃ . Science and Engineering of Composite Materials, 2019, 26, 122-133.	1.4	13
58	Potential use of vibration for metrology and detection of surface topography created by abrasive waterjet. International Journal of Surface Science and Engineering, 2013, 7, 135.	0.4	12
59	Numerical Simulation of Fatigue Crack Growth in Hip Implants. Procedia Engineering, 2016, 149, 229-235.	1.2	12
60	Online-monitoring for Abrasive Waterjet Cutting of CFRP via Acoustic Emission: Evaluation of Machining Parameters and Work Piece Quality Due to Burst Analysis. Procedia Engineering, 2016, 149, 67-76.	1.2	11
61	Effect of Water Pressure During Abrasive Waterjet Machining of Mg-Based Nanocomposite. Lecture Notes in Mechanical Engineering, 2018, , 605-612.	0.4	11
62	Investigation on Different Type of Defects, Temperature Variation and Mechanical Properties of Friction Stir Welded Lap joint of Aluminum Alloy 6101-T6. Materials Today: Proceedings, 2018, 5, 24378-24386.	1.8	11
63	Influence of frequency change during sandstone erosion by pulsed waterjet. Materials and Manufacturing Processes, 2020, 35, 187-194.	4.7	11
64	MICROSTRUCTURAL STUDY OF FAILURE PHENOMENA IN WC 94%-Co 6% HARD METAL ALLOY TIPS OF RADIAL PICKS. Advances in Science and Technology Research Journal, 2017, 11, 36-47.	0.8	11
65	Ultrasonic Pulsating Water Jet Peening: Influence of Pressure and Pattern Strategy. Materials, 2021, 14, 6019.	2.9	11
66	Recycling of corundum particles - two-body abrasive wear of polymeric composites based on waste. Tehnicki Vjesnik, 2015, 22, 567-572.	0.2	10
67	Analytical fluid film force calculation in the case of short bearing with a fully developed turbulent flow. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 395-401.	1.8	10
68	Effects of liquid droplet volume and impact frequency on the integrity of Al alloy AW2014 exposed to subsonic speeds of pulsating water jets. Wear, 2022, 488-489, 204136.	3.1	10
69	Utilizing the water hammer effect to enhance the mechanical properties of AISI 304 welded joints. International Journal of Advanced Manufacturing Technology, 2022, 119, 2317-2328.	3.0	9
70	Solutions of Fuzzy Multiobjective Programming Problems Based on the Concept of Scalarization. Journal of Optimization Theory and Applications, 2008, 139, 361-378.	1.5	8
71	Digital image correlation in analysis of stiffness in local zones of welded joints. Tehnicki Vjesnik, 2016, 23, .	0.2	8
72	Surface Roughness of Graphite and Aluminium Alloy After Hydro-abrasive Machining. Lecture Notes in Mechanical Engineering, 2018, , 805-813.	0.4	8

#	Article	IF	CITATIONS
73	Surface Treatment of AISI 304 Using Pulsating Water Jet Peening. Lecture Notes in Mechanical Engineering, 2018, , 535-548.	0.4	8
74	Experimental and mathematical evaluation of thermal and tensile properties of friction stir welded joint. International Journal of Materials and Product Technology, 2018, 57, 204.	0.2	8
75	Durability and tool wear investigation of HSSE-PM milling cutters within long-term tests. Engineering Failure Analysis, 2020, 108, 104348.	4.0	8
76	Measurement of thermal emission during cutting of materials using abrasive water jet. Thermal Science, 2017, 21, 2197-2203.	1.1	8
77	Prediction of Weld Bead Parameters, Transient Temperature Distribution & HAZ Width of Submerged Arc Welded Structural Steel Plates. Defect and Diffusion Forum, 2012, 326-328, 405-409.	0.4	7
78	Characterization of Failure Behavior in Distorted WC-Co Tip of Coal Mining Picks. Journal of Failure Analysis and Prevention, 2017, 17, 136-143.	0.9	7
79	Evaluation of physical phenomena and surface integrity during hydroabrasive disintegration of the rotating workpiece with feedback loop control. Measurement: Journal of the International Measurement Confederation, 2019, 134, 586-594.	5.0	7
80	Simulation Tools Used at the Injection Mould Design. Manufacturing Technology, 2016, 16, 561-569.	1.4	7
81	Standoff Distance in Ultrasonic Pulsating Water Jet. Materials, 2021, 14, 88.	2.9	7
82	Designing Student Affairs Organizational Structures: Perceptions of Senior Student Affairs Officers. Journal of Student Affairs Research and Practice, 2009, 46, .	0.9	6
83	Estimation of the smooth zone maximal depth at surfaces created by Abrasive Waterjet. International Journal of Surface Science and Engineering, 2009, 3, 347.	0.4	6
84	Experimental verification of small diameter rollers utilization in construction of roller test stand in evaluation of energy loss due to rolling resistance. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107287.	5.0	6
85	Wear Characterization into WC-Co by FESEM. Materials Today: Proceedings, 2018, 5, 3533-3540.	1.8	5
86	Testing of Tight Crimped Joint Made on aÂPrototype Stand. Lecture Notes in Mechanical Engineering, 2018, , 497-507.	0.4	5
87	Investigation on Pulsating Liquid Jet with Physiological Saline on Aluminium Surface. Lecture Notes in Mechanical Engineering, 2019, , 63-71.	0.4	5
88	Effect of Periodic Water Clusters on AISI 304 Welded Surfaces. Materials, 2021, 14, 210.	2.9	5
89	Surface Topography Analysis of Mg-Based Composites with Different Nanoparticle Contents Disintegrated Using Abrasive Water Jet. Materials, 2021, 14, 5471.	2.9	5
90	Effect of Water Flow Rate on Operating Frequency and Power During Acoustic Chamber Tuning. Lecture Notes in Mechanical Engineering, 2021, , 142-154.	0.4	5

#	Article	IF	CITATIONS
91	PRELIMINARY INVESTIGATION OF STATIC AND DYNAMIC HYSTERESIS OF DMSP-5 FLUIDIC MUSCLE. MM Science Journal, 2018, 2018, 2172-2178.	0.4	5
92	Comparison of Maraging Steel Surface Integrity in Hybrid and Conventional Micro-ECDM Processes. Materials, 2022, 15, 4378.	2.9	5
93	Integrating dependability analysis into the real-time system design process. , 0, , .		4
94	Non-linear modelling and evaluation of pressure and traverse rate influence to acoustic sound pressure level at abrasive waterjet machining. International Journal of Automation and Control, 2007, 1, 195.	0.5	4
95	Determination of technologically optimal factors of modulated waterjet. International Journal of Advanced Manufacturing Technology, 2012, 60, 173-179.	3.0	4
96	Investigation into Coal Fragmentation Analysis by Using Conical Pick. , 2014, 5, 2411-2417.		4
97	Effect of Frequency Change During Pulsed Waterjet Interaction with Stainless Steel. Lecture Notes in Mechanical Engineering, 2019, , 85-96.	0.4	4
98	Technological Process Design and Simulation. Applied Mechanics and Materials, 0, 440, 188-193.	0.2	3
99	Thermal manifestations and nanoindentation of bone cements for orthopaedic surgery. Thermal Science, 2014, 18, 251-258.	1.1	3
100	Dynamic measuring of performance parameters for vehicles engines. Measurement: Journal of the International Measurement Confederation, 2017, 111, 11-17.	5.0	3
101	Effect of rotation direction, traverse speed, and abrasive type during the hydroabrasive disintegration of a rotating Ti6Al4V workpiece. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 1848-1860.	2.4	3
102	Combustion characteristics of compression ignition engine fuelled with rapeseed oil–diesel fuel–n-butanol blends. Oil and Gas Science and Technology, 2021, 76, 17.	1.4	3
103	Subsurface microtunneling in ductile material caused by multiple droplet impingement at subsonic speeds. Wear, 2022, 490-491, 204176.	3.1	3
104	Surface and topographical parameters investigation at abrasive waterjet machining by means of optical measurement. International Journal of Machining and Machinability of Materials, 2009, 5, 268.	0.1	2
105	Investigation into Coal Cutting Operation by Using Conical Pick of Cast Iron with LH710 Coated Tip. Applied Mechanics and Materials, 0, 592-594, 426-431.	0.2	2
106	Experimental and mathematical evaluation of thermal and tensile properties of friction stir welded joint. International Journal of Materials and Product Technology, 2018, 57, 204.	0.2	2
107	Local Mechanical Properties of Various Bone Cements. Key Engineering Materials, 0, 592-593, 382-385.	0.4	1
108	Experimental study on the depth of cut of granite in pulsating water-jet. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012116.	0.6	1

#	Article	IF	CITATIONS
109	Erosion of Titanium and Aluminium Alloys Using Pulsating Water Jet: Effect of Standoff Distance. Lecture Notes in Mechanical Engineering, 2021, , 56-66.	0.4	1
110	Prediction of Change of Energy Supplied to Materials in Equal Channel Angular Pressing Method Technology. Advanced Science, Engineering and Medicine, 2011, 3, 30-33.	0.3	1
111	Non–traditional Machining of Inconel 600 Material. Lecture Notes in Mechanical Engineering, 2019, , 173-179.	0.4	1
112	Change of the Substrate Surface After Removal Multiple Plasma Spraying Layers. Lecture Notes in Mechanical Engineering, 2019, , 351-361.	0.4	1
113	Effect of Standoff Distance on the Erosion of Various Materials. Lecture Notes in Mechanical Engineering, 2021, , 164-171.	0.4	1
114	The quantitative evaluation of the cutting surface quality levels in abrasive water jet cutting by measurement of the representative striation mark displacement. International Journal of Advanced Manufacturing Technology, 2022, 120, 1625.	3.0	1
115	Wear and Mechanical Properties of Various Bone Cements – Influence of Saline Environment. Key Engineering Materials, 0, 662, 147-150.	0.4	0
116	Effects of acoustically generated pulsed hydro jet during rock surface disintegration. AIP Conference Proceedings, 2020, , .	0.4	0
117	On-Line Monitoring of In-Vitro Application of PWJ for Bone Cement Disintegration. Lecture Notes in Mechanical Engineering, 2021, , 100-110.	0.4	0
118	Mechanical Strengthening of Anti-Corrosive Surface Layers by Water Jet. Lecture Notes in Mechanical Engineering, 2021, , 197-207.	0.4	0