

Marek Szkodo

List of Publications by Year in descending order

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64
papers

531
citations

759233

12
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713466

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64
all docs

64
docs citations

64
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental validation of crystalline silicon solar cells recycling by thermal and chemical methods. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2275-2282.	6.2	104
2	Clay Minerals â€“ Mineralogy and Phenomenon of Clay Swelling in Oil & Gas Industry. <i>Advances in Materials Science</i> , 2015, 15, 37-55.	1.0	49
3	Effect of plasma sprayed and laser re-melted Al ₂ O ₃ coatings on hardness and wear properties of stainless steel. <i>Ceramics International</i> , 2016, 42, 11275-11284.	4.8	47
4	The effect of dehydration/rehydration of bacterial nanocellulose on its tensile strength and physicochemical properties. <i>Carbohydrate Polymers</i> , 2020, 236, 116023.	10.2	29
5	Laser-assisted modification of titanium dioxide nanotubes in a tilted mode as surface modification and patterning strategy. <i>Applied Surface Science</i> , 2020, 508, 145143.	6.1	24
6	Studies on Silver Ions Releasing Processes and Mechanical Properties of Surface-Modified Titanium Alloy Implants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3962.	4.1	20
7	Titania Nanotubes/Hydroxyapatite Nanocomposites Produced with the Use of the Atomic Layer Deposition Technique: Estimation of Bioactivity and Nanomechanical Properties. <i>Nanomaterials</i> , 2019, 9, 123.	4.1	20
8	Manufacturing Parameters, Materials, and Welds Properties of Butt Friction Stir Welded Jointsâ€“Overview. <i>Materials</i> , 2020, 13, 4940.	2.9	20
9	Mathematical description and evaluation of cavitation erosion resistance of materials. <i>Journal of Materials Processing Technology</i> , 2005, 164-165, 1631-1636.	6.3	17
10	In Vitro Biological Characterization of Silver-Doped Anodic Oxide Coating on Titanium. <i>Materials</i> , 2020, 13, 4359.	2.9	17
11	Assessment of the usefulness of bacterial cellulose produced by <i>Gluconacetobacter xylinus</i> E25 as a new biological implant. <i>Materials Science and Engineering C</i> , 2019, 97, 302-312.	7.3	16
12	The influence of residual stresses on cavitation resistance of metals â€“ an analysis based on investigations of metals remelted by laser beam and optical discharge plasma. <i>Wear</i> , 1999, 233-235, 86-92.	3.1	14
13	Thermochemical Conversion of Biomass and Municipal Waste into Useful Energy Using Advanced HiTAG/HiTSG Technology. <i>Energies</i> , 2020, 13, 4218.	3.1	13
14	Relationship between microstructure of laser alloyed C45 steel and its cavitation resistance. <i>Journal of Materials Processing Technology</i> , 2005, 162-163, 410-415.	6.3	10
15	Surface treatment of C80U steel by long CO ₂ laser pulses. <i>Journal of Materials Processing Technology</i> , 2015, 217, 114-121.	6.3	10
16	Influence of laser processing of the low alloy medium carbon structural steel on the development of the fatigue crack. <i>Surface and Coatings Technology</i> , 2016, 296, 117-123.	4.8	9
17	Effect of MAO coatings on cavitation erosion and tribological properties of 5056 and 7075 aluminum alloys. <i>Wear</i> , 2021, 474-475, 203709.	3.1	9
18	Cavitation erosion of some laser-produced iron-base corrosion-resistant alloys. <i>Wear</i> , 2005, 258, 614-622.	3.1	8

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19	Studies of the mechanism of metal dusting of 10CrMo9-10 steel after 10 years of operation in the semi-regenerative catalytic reformer. <i>Corrosion Science</i> , 2016, 102, 279-290.	6.6	8
20	The Influence of the Depth of Cut in Single-Pass Grinding on the Microstructure and Properties of the C45 Steel Surface Layer. <i>Materials</i> , 2020, 13, 1040.	2.9	7
21	Corrosion Properties of Dissimilar AA6082/AA6060 Friction Stir Welded Butt Joints in Different NaCl Concentrations. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2023, 10, 457-477.	4.9	6
22	A Quantitative Investigation of Dislocation Density in an Al Matrix Composite Produced by a Combination of Micro-/Macro-Rolling. <i>Journal of Composites Science</i> , 2022, 6, 199.	3.0	6
23	Cavitation Erosion of Some Alloys Manufactured on Steel and Iron Surfaces by Laser Beam. <i>Journal of Materials Engineering and Performance</i> , 2003, 12, 512-520.	2.5	5
24	Effect of selective laser treatment on initiation of fatigue crack in the main part of an undercarriage drag strut. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 701-714.	5.3	5
25	Properties of Barium Cerate Thin Films Formed Using E-Beam Deposition. <i>Crystals</i> , 2020, 10, 1152.	2.2	5
26	Effect of Processing Parameters on Strength and Corrosion Resistance of Friction Stir-Welded AA6082. <i>Metals</i> , 2022, 12, 192.	2.3	5
27	Cavitation resistance of 45 and 2Cr13 steels enriched with laser-deposited Hf, SiC, or SiC+AlNi powders. , 2000, 4238, 142.		4
28	Cavitation erosion degradation of Belzona [®] coatings. <i>Advances in Materials Science</i> , 2017, 17, 22-33.	1.0	4
29	A universal NDT method for examination of low energy impact damage in CFRP with the use of TLC film. <i>Nondestructive Testing and Evaluation</i> , 2018, 33, 315-328.	2.1	4
30	Structural and mechanical properties of hydroxyapatite coatings formed by ion-beam assisted deposition. <i>Journal of Physics: Conference Series</i> , 2018, 992, 012035.	0.4	4
31	Cavitation erosion of steels processed by CO2 laser beams of various parameters. <i>Journal of Materials Processing Technology</i> , 2004, 157-158, 446-450.	6.3	3
32	Cavitation Erosion Behavior of 18/8 Stainless Steel after Its Laser Alloying of Manganese. <i>Solid State Phenomena</i> , 2006, 113, 513-516.	0.3	3
33	Cavitation Erosion of P110 Steel in Different Drilling Muds. <i>Advances in Materials Science</i> , 2016, 16, 57-67.	1.0	3
34	Laser Beam as a Precision Tool to Increase Fatigue Resistance in an Eyelet of Undercarriage Drag Strut. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 0, , 1.	4.9	3
35	Scale Effects in Cavitation Erosion of Materials. <i>Solid State Phenomena</i> , 2006, 113, 517-520.	0.3	2
36	The Characteristic of Surface Layers on Austenitic Stainless Steel after Glow-Discharge Nitriding Process. <i>Solid State Phenomena</i> , 0, 165, 165-168.	0.3	2

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37	Physicochemical and Mechanical Performance of Freestanding Boron-Doped Diamond Nanosheets Coated with C:H:N:O Plasma Polymer. <i>Materials</i> , 2020, 13, 1861.	2.9	2
38	Modeling of Passive and Forced Convection Heat Transfer in Channels with Rib Turbulators. <i>Energies</i> , 2021, 14, 7059.	3.1	2
39	The effect of cavitation loading spectrum on microhardness in an Al alloy AlMg2Mn. <i>Wear</i> , 1999, 233-235, 75-78.	3.1	1
40	Cavitation resistance of new chromium-manganese and chromium-cobalt electrodes and their metallographic structures. <i>Wear</i> , 1999, 233-235, 111-119.	3.1	1
41	Search for CO ₂ laser beam parameters affecting the process of the laser elevating of cavitation resistance of steels. , 2001, 4184, 594.		1
42	<title>Cavitation resistance of 0H18N9T steel alloyed with various amounts of TiC or Mn by means of laser beam</title>. , 2003, , .		1
43	Assessment of FSW Welds Made of Aluminum Alloy AW7075-T651. <i>Solid State Phenomena</i> , 0, 165, 201-206.	0.3	1
44	Cavitation Erosion Resistance of Austenitic Stainless Steel after Glow-Discharge Nitriding Process. <i>Solid State Phenomena</i> , 2011, 183, 201-206.	0.3	1
45	The Influence of Gas Mixture in the Glow-Discharge Nitriding Process of Austenitic Stainless Steel on Characteristic of Nitrided Cases. <i>Key Engineering Materials</i> , 0, 490, 282-287.	0.4	1
46	On the Durability of the Hydraulic Satellite Motor Working Mechanism in Overload Condition. <i>Advances in Materials Science</i> , 2016, 16, 35-46.	1.0	1
47	The Processing Procedure for the Interpretation of Microseismic Signal Acquired from a Surface Array During Hydraulic Fracturing in Pomerania Region in Poland. <i>Procedia Computer Science</i> , 2017, 108, 1722-1730.	2.0	1
48	Laboratory research on the influence of swelling clay on the quality of borehole cementing and evaluation of clay-cutting wellbore tool prototype. <i>Applied Clay Science</i> , 2018, 164, 13-25.	5.2	1
49	Influence of parameters of deep grinding on nanohardness and surface roughness of C45 steel. , 2018, , 1026-1028.	0.1	1
50	Forming the surface layer properties during grinding. , 2019, , 661-663.	0.1	1
51	<title>Some coatings of high cavitation resistance produced by CO₂ laser beam</title>. , 2003, , .		0
52	Phase Investigations of Copper Based CuZn38Al2MnFe Alloy. <i>Solid State Phenomena</i> , 2006, 113, 537-540.	0.3	0
53	On the importance of volume of eroded material for cavitation erosion. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007, 1, 452.	0.2	0
54	Cavitation Erosion Resistance of Austenitic Microstructure Created by Laser Beam. <i>Solid State Phenomena</i> , 0, 165, 195-200.	0.3	0

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55	Influence of Cavitation Intensity on the Relative Cavitation Resistance of Laser Processed C45 Carbon Steel. Solid State Phenomena, 2010, 165, 189-194.	0.3	0
56	Influence of Spatial Structures of 316L Stainless Steel on its Cavitation Erosion Resistance. Solid State Phenomena, 2014, 225, 109-114.	0.3	0
57	Effect of some Sulphur Additives on the Degradation of 9Cr-1Mo Steel after its 10 Years Service in the CCR Platforming Unit. Solid State Phenomena, 0, 225, 139-144.	0.3	0
58	Influence of Nitriding and Laser Remelting on Properties of Austenitic Stainless Steel Type X10CrNi18-8 and Cavitation Erosion Resistance. Advances in Materials Science, 2016, 16, 21-31.	1.0	0
59	MATCHED FILTER APPROACH FOR MICROSEISMIC SIGNAL PROCESSING OF REAL DATA FROM EAST POMERANIA SHALE GAS. , 2017, , .		0
60	REVERSE MODELLING OF MICROSEISMIC WAVES PROPAGATION FOR THE INTERPRETATION OF THE DATA FROM HYDRAULIC FRACTURING MONITORING IN POLAND. , 2017, , .		0
61	MICROSEISMIC EVENT DETECTION USING DIFFERENT ALGORITHMS ON REAL DATA FROM PATCH ARRAY GEOPHONE GRID FROM EASTERN POMERANIA FRACTURING JOB. , 2017, , .		0
62	Microseismic Monitoring of Hydraulic Fracturing – Data Interpretation Methodology with an Example from Pomerania. , 0, , .		0
63	Planning, Configuration and Usefulness of Microseismic Monitoring on Eastern-Europe Platform – Example from East Pomerania. , 0, , .		0
64	Aumento de calidad en uniones soldadas de estructuras de paredes delgadas mediante modelo de simulación. Revista De Metalurgia, 2019, 55, 158.	0.5	0