

Jerzy Winczek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evaluation of Mechanical and Thermal Properties of Jute and Ramie Reinforced Epoxy-based Hybrid Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 8022-8032.	1.7	66
2	Analytical solution to transient temperature field in a half-infinite body caused by moving volumetric heat source. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 5774-5781.	2.5	52
3	Physical and Mechanical Properties of Natural Leaf Fiber-Reinforced Epoxy Polyester Composites. <i>Polymers</i> , 2021, 13, 1369.	2.0	48
4	Mechanical and Microstructural Characterization of Friction Stir Welded SiC and B4C Reinforced Aluminium Alloy AA6061 Metal Matrix Composites. <i>Materials</i> , 2021, 14, 3110.	1.3	46
5	Physical and Mechanical Behavior of Hemp and Nettle Fiber-Reinforced Polyester Resin-based Hybrid Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 2632-2647.	1.7	39
6	Effect of the t _{8/5} Cooling Time on the Properties of S960MC Steel in the HAZ of Welded Joints Evaluated by Thermal Physical Simulation. <i>Metals</i> , 2020, 10, 229.	1.0	36
7	Effect of Variation of SiC Reinforcement on Wear Behaviour of AZ91 Alloy Composites. <i>Materials</i> , 2021, 14, 990.	1.3	34
8	Physical and Mechanical Behaviour of Sugarcane Bagasse Fibre-Reinforced Epoxy Bio-Composites. <i>Materials</i> , 2020, 13, 5387.	1.3	33
9	Physical and Mechanical Properties of Rambans (Agave) Fiber Reinforced with Polyester Composite Materials. <i>Journal of Natural Fibers</i> , 2022, 19, 6104-6118.	1.7	28
10	New approach to modeling of temperature field in surfaced steel elements. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4702-4709.	2.5	27
11	Effect of SiC Reinforcement and Its Variation on the Mechanical Characteristics of AZ91 Composites. <i>Materials</i> , 2020, 13, 4913.	1.3	24
12	Analytical solution of temporary temperature field in half-infinite body caused by moving tilted volumetric heat source. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 469-479.	2.5	21
13	Modeling of Temperature Field during Multi-Pass GMAW Surfacing or Rebuilding of Steel Elements Taking into Account the Heat of the Deposit Metal. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 6.	1.3	17
14	Analytical Description of the Temperature Field Induced by Laser Heat Source with Any Trajectory. <i>Procedia Engineering</i> , 2016, 149, 553-558.	1.2	14
15	Modeling of Heat Affected Zone in Multipass GMAW Surfacing S235 Steel Element. <i>Procedia Engineering</i> , 2016, 136, 108-113.	1.2	14
16	Theoretical and Experimental Investigation of Temperature and Phase Transformation During SAW Overlaying. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1472.	1.3	14
17	A simplified method of predicting stresses in surfaced steel rods. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1080-1088.	3.1	10
18	Investigation of Welds and Heat Affected Zones in Weld Surfacing Steel Plates Taking into Account the Bead Sequence. <i>Materials</i> , 2020, 13, 5666.	1.3	10

#	ARTICLE	IF	CITATIONS
19	In Situ Formation of ZrB ₂ and Its Influence on Wear and Mechanical Properties of ADC12 Alloy Mixed Matrix Composites. <i>Materials</i> , 2021, 14, 2141.	1.3	10
20	Evaluation of Physical, Mechanical, and Wear Properties of Jatropha Shell Powder Reinforced Epoxy Glass Fiber Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 12195-12207.	1.7	10
21	A novel fixed-grid interface-tracking algorithm for rapid solidification of supercooled liquid metal. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 306-320.	1.2	9
22	Physical and Mechanical Properties of Pinecone Scale Fiber/Vigna Mungo Powder Reinforced Polypropylene Based Hybrid Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 11458-11468.	1.7	9
23	Modelling of heat affected zone in cylindrical steel elements surfaced by welding. <i>Applied Mathematical Modelling</i> , 2012, 36, 1514-1528.	2.2	8
24	Engineering calculations for complex geometric domains. <i>MATEC Web of Conferences</i> , 2018, 157, 02009.	0.1	6
25	Modelling of Heat Affected Zone in Submerged arc Welding Butt Joint with Thorough Penetration. <i>Procedia Engineering</i> , 2017, 177, 241-246.	1.2	4
26	Numerical Analysis of the Influence of Electrode Inclination on Temperature Distribution during GMAW Overlaying. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-13.	0.6	4
27	Modelling of a temporary temperature field during arc weld surfacing of steel elements taking into account heat of the weld. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2015, 14, 111-120.	0.3	4
28	The modelling of temperature-dependent stress-strain curves for weldable steels. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2018, 17, 111-117.	0.3	4
29	The effect of the preheating on to properties of the wear resistant welds. <i>Przegląd Spawalnictwa</i> , 2020, 92, 7-14.	0.5	3
30	Estimation of Heat Energy in Regeneration of Agricultural Machine Parts by Welding Methods. <i>Agricultural Engineering</i> , 2020, 24, 91-100.	0.2	2
31	Computational study of the effect of spray parameters on adhesion of splat on the stainless steel substrate during the impact of molten zirconia droplet. <i>Heat and Mass Transfer</i> , 2022, 58, 1365-1380.	1.2	2
32	Computation of phase transformations, strains and stresses fields during multipass superficial hardening process with tempering. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
33	The Analysis of Temporary Temperature Field and Phase Transformations in One-Side Butt-Welded Steel Flats. , 0, , .		1
34	Analysis of thermomechanical states in single-pass GMAW surfaced steel element. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
35	The ecological techniques and materials in artistic graphic art. <i>E3S Web of Conferences</i> , 2018, 44, 00188.	0.2	1
36	Analytical model of stress field in submerged arc welding butt joint with thorough penetration. <i>MATEC Web of Conferences</i> , 2018, 157, 02056.	0.1	1

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37	Analysis of deformation and microstructure evolution during the hot deformation of titanium alloy. MATEC Web of Conferences, 2018, 157, 02022.	0.1	0
38	New methodology of measurement the unsteady thermal cooling of objects. AIP Conference Proceedings, 2018, , .	0.3	0
39	Calculation of Stresses during Shielded Arc Surfacing with Consideration Influence of Temperature and Structure Changes. EAI/Springer Innovations in Communication and Computing, 2019, , 99-109.	0.9	0
40	Numerical analysis of stresses and strains in the course of verification of selected welding imperfections. AIP Conference Proceedings, 2019, , .	0.3	0
41	Butt welding of thin sheets of S960MC steel. Przegląd Spawalnictwa, 2021, 93, 5-12.	0.5	0
42	The model of a temporary temperature field during multi-pass arc weld surfacing. Part II: Example of computations. Journal of Applied Mathematics and Computational Mechanics, 2015, 14, 141-148.	0.3	0
43	Advanced Output Characteristics of Welding Power Source for Pulsed GMAW. Lecture Notes in Mechanical Engineering, 2019, , 307-314.	0.3	0