Miroslav RaudenskÃ½

List of Publications by Year
in descending order

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76 papers	857 citations	471509 17 h-index	552781 26 g-index
78 all docs	78 docs citations	78 times ranked	485 citing authors

#	Article	IF	Citations
1	GENETIC ALGORITHM IN SOLUTION OF INVERSE HEAT CONDUCTION PROBLEMS. Numerical Heat Transfer, Part B: Fundamentals, 1995, 28, 293-306.	0.9	79
2	Secondary cooling in continuous casting and Leidenfrost temperature effects. Ironmaking and Steelmaking, 2005, 32, 159-164.	2.1	40
3	Assessment of strategies and potential for neural networks in the inverse heat conduction problem. Inverse Problems in Science and Engineering, 1999, 7, 197-213.	0.5	39
4	Polymeric hollow fiber heat exchanger as an automotive radiator. Applied Thermal Engineering, 2016, 108, 798-803.	6.0	37
5	Effects of titania nanoparticles on heat transfer performance of spray cooling with full cone nozzle. Applied Thermal Engineering, 2014, 62, 20-27.	6.0	35
6	Effects of oxide layer on Leidenfrost temperature during spray cooling of steel at high temperatures. International Journal of Heat and Mass Transfer, 2015, 88, 236-246.	4.8	35
7	Dynamic characteristics of water spreading over laser-textured aluminum alloy surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125253.	4.7	31
8	HEAT TRANSFER COEFFICIENT ESTIMATION BY INVERSE CONDUCTION ALGORITHM. International Journal of Numerical Methods for Heat and Fluid Flow, 1993, 3, 257-266.	2.8	30
9	Deformation behavior of steels in mushy state. Materials & Design, 2001, 22, 83-92.	5.1	28
10	Spray cooling by solid jet nozzles using alumina/water nanofluids. International Journal of Thermal Sciences, 2012, 62, 127-137.	4.9	28
11	Performance Evaluations of Technology Transfer Offices of Major US Research Universities. Journal of Technology Management and Innovation, 2014, 9, 93-102.	0.7	28
12	Usage of neural network for coupled parameter and function specification inverse heat conduction problem. International Communications in Heat and Mass Transfer, 1995, 22, 661-670.	5.6	26
13	USAGE OF ARTIFICIAL INTELLIGENCE METHODS IN INVERSE PROBLEMS FOR ESTIMATION OF MATERIAL PARAMETERS. International Journal of Numerical Methods for Heat and Fluid Flow, 1996, 6, 19-29.	2.8	26
14	Intensification of heat transfer of polymeric hollow fiber heat exchangers by chaotisation. Applied Thermal Engineering, 2017, 113, 632-638.	6.0	26
15	Liquid Sprays for Heat Transfer Enhancements: A Review. Heat Transfer Engineering, 2016, 37, 1401-1417.	1.9	21
16	Polymeric hollow fibers: Uniform temperature of Li-ion cells in battery modules. Applied Thermal Engineering, 2019, 159, 113940.	6.0	20
17	Heat transfer of spray cooling using alumina/water nanofluids with full cone nozzles. Heat and Mass Transfer, 2012, 48, 1971-1983.	2.1	18
18	Heat transfer evaluation of impingement cooling in hot rolling of shaped steels. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1994, 65, 375-381.	0.3	14

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19	Experimental study of long product cooling in hot rolling. Journal of Materials Processing Technology, 1998, 80-81, 337-340.	6.3	14
20	Determination of surface wettability of polymeric hollow fibres. Journal of Elastomers and Plastics, 2018, 50, 737-746.	1.5	14
21	Polymeric hollow fibers: A supercompact cooling of Li-ion cells. International Journal of Thermal Sciences, 2019, 146, 106060.	4.9	14
22	Shell-and-tube polymeric hollow fiber heat exchangers with parallel and crossed fibers. Applied Thermal Engineering, 2021, 182, 116001.	6.0	13
23	Hydraulic descaling improvement, findings of jet structure on water hammer effect. Revue De Metallurgie, 2007, 104, 84-90.	0.3	12
24	Polymeric Hollowâ€Fiber Bundles as Immersed Heat Exchangers. Chemical Engineering and Technology, 2018, 41, 1457-1465.	1.5	12
25	Experimental study of cooling characteristics in hot rolling. Journal of Materials Processing Technology, 1994, 45, 131-135.	6.3	11
26	Solar panel cooling system with hollow fibres. Applied Solar Energy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	1.6	11
27	Recent developments of water and mist spray cooling in continuous casting of steels. Metallurgical Research and Technology, 2016, 113, 509.	0.7	11
28	Spray Cooling Heat Transfer above Leidenfrost Temperature. Metals, 2020, 10, 1270.	2.3	11
29	Thermal expansion and crown evaluations of rolls in rolling processes. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1996, 67, 188-199.	0.3	10
30	Heat Transfer Correlations for Secondary Cooling in Continuous Casting. Steel Research International, 2021, 92, 2000465.	1.8	10
31	An optimal design for hollow fiber heat exchanger: A combined numerical and experimental investigation. Energy, 2021, 229, 120571.	8.8	10
32	Assessments of technology transfer activities of US universities and associated impact of Bayhâ€“Dole Act. Scientometrics, 2014, 101, 1851-1869.	3.0	9
33	Fouling of Polymeric Hollow Fiber Heat Exchangers by Air Dust. Materials, 2020, 13, 4931.	2.9	9
34	Optimal cooling of rolls in hot rolling. Journal of Materials Processing Technology, 2002, 125-126, 700-705.	6.3	8
35	Prediction of Leidenfrost Temperature in Spray Cooling for Continuous Casting and Heat Treatment Processes. Metals, 2020, 10, 1551.	2.3	8
36	Measurement of Thermal Load on Working Rolls during Hot Rolling. Steel Research International, 2013, 84, 269-275.	1.8	7

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37	Experimental study of heat transfer in process of rolls cooling in rolling mills by water jets. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1994, 65, 29-35.	0.3	6
38	Experimental study of heat transfer in hot rolling. Revue De Metallurgie, 2006, 103, 333-341.	0.3	6
39	THE INFLUENCE OF THE FIBRES ARRANGEMENT ON HEAT TRANSFER AND PRESSURE DROP OF POLYMERIC HOLLOW FIBRE HEAT EXCHANGERS. Acta Polytechnica, 2020, 60, 122-126.	0.6	6
40	Experimental Study of Heat Transfer in Hot Rolling and Continuous Casting. Materials Science Forum, 2005, 473-474, 347-354.	0.3	5
41	Water spray cooling of stainless and C-Mn steel. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1998, 69, 240-246.	0.3	4
42	Development of accelerated cooling for new plate mill. Ironmaking and Steelmaking, 2013, 40, 598-604.	2.1	4
43	Flexible polymeric hollow fiber heat exchangers for electronic systems. , 2016, , .		4
44	Remote Cooling of Rolls in Hot Rolling; Applicability to Other Processes. Metals, 2021, 11, 1061.	2.3	4
45	IMPINGEMENT FLUX UNIFORMITY IN NOZZLE SPRAYING FOR INDUSTRIAL APPLICATIONS. Atomization and Sprays, 2013, 23, 819-840.	0.8	4
46	MOMENTUM ANALYSES FOR DETERMINATION OF DROP SIZE AND DISTRIBUTIONS DURING SPRAY ATOMIZATION. Atomization and Sprays, 2020, 30, 97-109.	0.8	4
47	Shear Strength of Adhesive Bonding of Plastics Intended for High Temperature Plastic Radiators. Processes, 2022, 10, 806.	2.8	4
48	Influences of interface oxidation on transmission laser bonding of wafers for microsystem packaging. Microsystem Technologies, 2006, 13, 49-59.	2.0	3
49	Spray cooling by Al<inf>2</inf>O<inf>3</inf> and TiO<inf>2</inf> nanoparticles in water. , 2010, , .		3
50	Inâ€Ł ine Heat Treatment and Hot Rolling. , 2011, , .		3
51	Low cost membrane contactors based on hollow fibres. EPJ Web of Conferences, 2012, 25, 01009.	0.3	3
52	Heat Exchanger for Air-Liquid Application with Chaotised Polymeric Hollow Fibres. Applied Thermal Engineering, 2021, 197, 117365.	6.0	3
53	Experimental Technique for Heat Transfer Measurements on Fast Moving Sprayed Surfaces. Journal of ASTM International, 2009, 6, 101801.	0.2	3
54	A COMPUTATIONAL PROTOCOL FOR SIMULATION OF LIQUID JETS IN CROSSFLOWS WITH ATOMIZATION. Atomization and Sprays, 2020, 30, 319-330.	0.8	3

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55	Thermal model of rolls and sheets improvement by experimental study of cooling. Journal of Materials Processing Technology, 1992, 34, 247-253.	6.3	2
56	Approximate Solution to the Spray Heat Transfer Problem at High Surface Temperatures and Liquid Mass Fluxes. Heat Transfer Engineering, 2019, 40, 1649-1655.	1.9	2
57	Polymeric hollow fiber heat exchangers. AIP Conference Proceedings, 2019, , .	0.4	2
58	Energy-Efficient Cooling and Hydraulic Descaling Systems. Metallurgist, 2020, 64, 729-740.	0.6	2
59	Influence of the impact angle and pressure on the spray cooling of vertically moving hot steel surfaces. Materiali in Tehnologije, 2015, 49, 333-336.	0.5	2
60	The effect of water temperature on cooling during high pressure water descaling. Thermal Science, 2018, 22, 2965-2971.	1.1	2
61	Polymeric hollow fiber heat exchangers. , 2016, , .		2
62	Cooling of flue gas by cascade of polymeric hollow fiber heat exchangers. Case Studies in Thermal Engineering, 2022, 36, 102220.	5.7	2
63	Experimental Study of Leidenfrost Phenomena at Hot Sprayed Surface. , 2003, , 355.		1
64	Indentation and Piercing of Steel in a Mushy State. Journal of Materials Engineering and Performance, 2005, 14, 610-615.	2.5	1
65	Spray Cooling Unit for Heat Treatment of Stainless Steel Sheets. Advanced Materials Research, 0, 936, 1720-1724.	0.3	1
66	Hiding Power of Aluminum Metal Pigments Development in the Ball Mill Grinding Process. Solid State Phenomena, 2015, 244, 19-25.	0.3	1
67	Computational Simulations of Liquid Sprays in Crossflows With an Algorithmic Module for Primary Atomization. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
68	FLEXIBLE POLYMERIC HOLLOW FIBER HEAT EXCHANGERS. , 2018, , .		1
69	Numerical investigation of heat transfer on the outer surface of polymeric hollow fibers. Materiali in Tehnologije, 2018, 52, 459-463.	0.5	1
70	CHAOTISED POLYMERIC HOLLOW FIBRE BUNDLE AS A CROSSFLOW HEAT EXCHANGER IN AIR-WATER APPLICATION. Acta Polytechnica, 2020, 60, 318-323.	0.6	1
71	Computational Simulations of Spray Cooling with Air-Assist Injectors. Heat Transfer Engineering, 2023, 44, 823-836.	1.9	1
72	Mechanical Characteristics of Semi-Solid Steels. , 2001, , 99-112.		0

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73	Mutual collision of water jets from adjacent high pressure flat jet nozzles on flat surfaces during hydraulic descaling. Tehnicki Vjesnik, 2016, 23, .	0.2	0
74	Techniques of measuring spray-cooling homogeneity. Materiali in Tehnologije, 2015, 49, 337-341.	0.5	0
75	EXPERIMENTAL VERIFICATION OF POLYMERIC DISTILLATION UNIT. , 2019, , .		0
76	Experimental Technique for Heat Transfer Measurements on Fast Moving Sprayed Surfaces. , 0, , 3-3-13.		0