

# Bekir S Yilbas

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7501854/publications.pdf>

Version: 2024-02-01

704  
papers

11,539  
citations

50170

46  
h-index

85405

71  
g-index

716  
all docs

716  
docs citations

716  
times ranked

6180  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on current status and challenges of inorganic phase change materials for thermal energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 1072-1089.	8.2	483
2	Heat transfer enhancement of phase change materials for thermal energy storage applications: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 26-50.	8.2	418
3	The thermoelement as thermoelectric power generator: Effect of leg geometry on the efficiency and power generation. <i>Energy Conversion and Management</i> , 2013, 65, 26-32.	4.4	183
4	Thermodynamics and thermal stress analysis of thermoelectric power generator: Influence of pin geometry on device performance. <i>Applied Thermal Engineering</i> , 2013, 50, 683-692.	3.0	155
5	Parametric study to improve laser hole drilling process. <i>Journal of Materials Processing Technology</i> , 1997, 70, 264-273.	3.1	126
6	Superhydrophobic surfaces with antireflection properties for solar applications: A critical review. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 604-623.	3.0	118
7	Plasma nitriding of Ti-6Al-4V alloy to improve some tribological properties. <i>Surface and Coatings Technology</i> , 1996, 80, 287-292.	2.2	113
8	Quasiballistic heat transfer studied using the frequency-dependent Boltzmann transport equation. <i>Physical Review B</i> , 2011, 84, .	1.1	109
9	Laser heating mechanism including evaporation process initiating laser drilling. <i>International Journal of Machine Tools and Manufacture</i> , 1995, 35, 1047-1062.	6.2	94
10	Influence of dust and mud on the optical, chemical and mechanical properties of a pv protective glass. <i>Scientific Reports</i> , 2015, 5, 15833.	1.6	94
11	Thermodynamic analysis of a thermoelectric power generator in relation to geometric configuration device pins. <i>Energy Conversion and Management</i> , 2014, 78, 634-640.	4.4	93
12	Laser welding of low carbon steel and thermal stress analysis. <i>Optics and Laser Technology</i> , 2010, 42, 760-768.	2.2	86
13	Heating of metals at a free surface by laser irradiation—an electron kinetic theory approach. <i>International Journal of Engineering Science</i> , 1986, 24, 1325-1334.	2.7	81
14	Laser cutting quality assessment and thermal efficiency analysis. <i>Journal of Materials Processing Technology</i> , 2004, 155-156, 2106-2115.	3.1	80
15	Dynamics of a water droplet on a hydrophobic inclined surface: influence of droplet size and surface inclination angle on droplet rolling. <i>RSC Advances</i> , 2017, 7, 48806-48818.	1.7	80
16	The erosion—corrosion behaviour of high velocity oxy-fuel (HVOF) thermally sprayed inconel-625 coatings on different metallic surfaces. <i>Surface and Coatings Technology</i> , 2006, 200, 5782-5788.	2.2	79
17	Laser surface treatment of Inconel 718 alloy: Thermal stress analysis. <i>Optics and Lasers in Engineering</i> , 2010, 48, 740-749.	2.0	76
18	Study into the Measurement and Prediction of Penetration Time during CO2 Laser Cutting Process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 1990, 204, 105-113.	1.5	75

#	ARTICLE	IF	CITATIONS
19	Thermoelectric device and optimum external load parameter and slenderness ratio. Energy, 2010, 35, 5380-5384.	4.5	69
20	Laser heating process and experimental validation. International Journal of Heat and Mass Transfer, 1997, 40, 1131-1143.	2.5	68
21	Study of Affecting Parameters in Laser Hole Drilling of Sheet Metals. Journal of Engineering Materials and Technology, Transactions of the ASME, 1987, 109, 282-287.	0.8	66
22	Exergy analysis and optimization of a thermal management system with phase change material for hybrid electric vehicles. Applied Thermal Engineering, 2014, 64, 471-482.	3.0	66
23	Development, analysis and assessment of solar energy-based multigeneration system with thermoelectric generator. Energy Conversion and Management, 2018, 156, 746-756.	4.4	66
24	Laser cutting of various materials: Kerf width size analysis and life cycle assessment of cutting process. Optics and Laser Technology, 2017, 93, 67-73.	2.2	65
25	Laser-shock processing of steel. Journal of Materials Processing Technology, 2003, 135, 6-17.	3.1	62
26	Dross formation during laser cutting process. Journal Physics D: Applied Physics, 2006, 39, 1451-1461.	1.3	61
27	CO2 laser gas assisted nitriding of Ti-6Al-4V alloy. Applied Surface Science, 2006, 252, 8557-8564.	3.1	59
28	Water Droplet Dynamics on a Hydrophobic Surface in Relation to the Self-Cleaning of Environmental Dust. Scientific Reports, 2018, 8, 2984.	1.6	59
29	Liquid ejection and possible nucleate boiling mechanisms in relation to the laser drilling process. Journal Physics D: Applied Physics, 1997, 30, 1996-2005.	1.3	58
30	Characterization of dust collected from PV modules in the area of Dhahran, Kingdom of Saudi Arabia, and its impact on protective transparent covers for photovoltaic applications. Solar Energy, 2017, 141, 203-209.	2.9	58
31	Analytical solution for time unsteady laser pulse heating of semi-infinite solid. International Journal of Mechanical Sciences, 1997, 39, 671-682.	3.6	57
32	A review on the performance of photovoltaic/thermoelectric hybrid generators. International Journal of Energy Research, 2020, 44, 3365-3394.	2.2	57
33	A study of the corrosion properties of TiN coated and nitrided Ti-6Al-4V. Corrosion Science, 1995, 37, 1627-1636.	3.0	56
34	Natural convection and entropy generation in a square cavity. International Journal of Energy Research, 1998, 22, 1275-1290.	2.2	56
35	Laser treatment of zirconia surface for improved surface hydrophobicity. Journal of Alloys and Compounds, 2015, 625, 208-215.	2.8	56
36	Experimental investigation into CO2 laser cutting parameters. Journal of Materials Processing Technology, 1996, 58, 323-330.	3.1	54

#	ARTICLE	IF	CITATIONS
37	Heat transfer analysis of laser heated surfaces " conduction limited case. Applied Surface Science, 1997, 108, 167-175.	3.1	53
38	Improved formulation of electron kinetic theory approach for laser ultra-short-pulse heating. International Journal of Heat and Mass Transfer, 2006, 49, 2227-2238.	2.5	53
39	Laser texturing of alumina surface for improved hydrophobicity. Applied Surface Science, 2013, 286, 161-170.	3.1	52
40	Laser-induced thermal stresses on steel surface. Optics and Lasers in Engineering, 1998, 30, 25-37.	2.0	51
41	Material response to thermal loading due to short pulse laser heating. International Journal of Heat and Mass Transfer, 2001, 44, 3787-3798.	2.5	51
42	CO2 laser cutting of a carbon/carbon multi-lamelled plain-weave structure. Journal of Materials Processing Technology, 2006, 173, 345-351.	3.1	51
43	Self-cleaning of a hydrophobic surface by a rolling water droplet. Scientific Reports, 2019, 9, 5744.	1.6	50
44	Effect of process parameters on the kerf width during the laser cutting process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2001, 215, 1357-1365.	1.5	49
45	Local entropy generation in an impinging jet: minimum entropy concept evaluating various turbulence models. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3623-3644.	3.4	49
46	Evaluation of gas nitriding process with in-process variation of nitriding potential for AISI H13 tool steel. International Journal of Advanced Manufacturing Technology, 2010, 47, 687-698.	1.5	49
47	Characterization of Environmental Dust in the Dammam Area and Mud After-Effects on Bisphenol-A Polycarbonate Sheets. Scientific Reports, 2016, 6, 24308.	1.6	49
48	Laser cutting of thick sheet metals: Effects of cutting parameters on kerf size variations. Journal of Materials Processing Technology, 2008, 201, 285-290.	3.1	48
49	Energetic and exergetic performance analyses of a solar energy-based integrated system for multigeneration including thermoelectric generators. Energy, 2015, 93, 1246-1258.	4.5	48
50	Thermal and stress analyses in thermoelectric generator with tapered and rectangular pin configurations. Energy, 2016, 114, 52-63.	4.5	47
51	A closed form solution for temperature rise inside solid substrate due to time exponentially varying pulse. International Journal of Heat and Mass Transfer, 2002, 45, 1993-2000.	2.5	44
52	Investigation into drilling speed during laser drilling of metals. Optics and Laser Technology, 1988, 20, 29-32.	2.2	43
53	Laser melting of plasma nitrided Ti-6Al-4V alloy. Wear, 1997, 212, 140-149.	1.5	43
54	Laser short-pulse heating of surfaces. Journal Physics D: Applied Physics, 1999, 32, 1947-1954.	1.3	43

#	ARTICLE	IF	CITATIONS
55	Electrochemical study of laser nitrided and PVD TiN coated Ti-6Al-4V alloy: the observation of selective dissolution. <i>Surface and Coatings Technology</i> , 2001, 148, 46-54.	2.2	43
56	Cemented carbide cutting tool: Laser processing and thermal stress analysis. <i>Applied Surface Science</i> , 2007, 253, 5544-5552.	3.1	43
57	Laser trepanning of a small diameter hole in titanium alloy: Temperature and stress fields. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1296-1304.	3.1	42
58	Performance assessment of hybrid power generation systems: Economic and environmental impacts. <i>Energy Conversion and Management</i> , 2017, 132, 418-431.	4.4	42
59	An Approach to Convergency of Kinetic Theory to Fourier Theory in Relation to Laser Heating Process. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 5646-5651.	0.8	41
60	The influence of gas jet velocity in laser heating a moving workpiece case. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2000, 214, 1059-1078.	1.1	40
61	Study of liquid and vapor ejection processes during laser drilling of metals. <i>Journal of Laser Applications</i> , 1995, 7, 147-152.	0.8	39
62	The influence of operating and device parameters on the maximum efficiency and the maximum output power of thermoelectric generator. <i>International Journal of Energy Research</i> , 2012, 36, 111-119.	2.2	39
63	Marangoni convection flow and heat transfer characteristics of water-CNT nanofluid droplets. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 763-780.	1.2	39
64	Effects of plasma on CO2 laser cutting quality. <i>Optics and Lasers in Engineering</i> , 1988, 9, 1-12.	2.0	38
65	Second law analysis of a swirling flow in a circular duct with restriction. <i>International Journal of Heat and Mass Transfer</i> , 1999, 42, 4027-4041.	2.5	38
66	Thermal stress developed during the laser cutting process: consideration of different materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 698-704.	1.5	38
67	Phonon transport in silicon-silicon and silicon-diamond thin films: Consideration of thermal boundary resistance at interface. <i>Physica B: Condensed Matter</i> , 2011, 406, 2186-2195.	1.3	38
68	Wetting and other physical characteristics of polycarbonate surface textured using laser ablation. <i>Applied Surface Science</i> , 2014, 320, 21-29.	3.1	38
69	A Water Droplet Pinning and Heat Transfer Characteristics on an Inclined Hydrophobic Surface. <i>Scientific Reports</i> , 2018, 8, 3061.	1.6	38
70	Innovative design of a thermoelectric generator with extended and segmented pin configurations. <i>Applied Energy</i> , 2017, 187, 367-379.	5.1	37
71	Oxygen assisted laser cutting mechanism a laminar boundary layer approach including the combustion process. <i>Optics and Laser Technology</i> , 1995, 27, 175-184.	2.2	36
72	MODELING OF LASER HEATING OF SOLID SUBSTANCE INCLUDING ASSISTING GAS IMPINGEMENT. <i>Numerical Heat Transfer; Part A: Applications</i> , 1998, 33, 315-339.	1.2	36

#	ARTICLE	IF	CITATIONS
73	Laser treatment and PVD TiN coating of Ti-6Al-4V alloy. Surface and Coatings Technology, 2000, 130, 152-157.	2.2	36
74	Laser treatment and PVD TiN coating of Ti-6Al-4V alloy. Surface and Coatings Technology, 2001, 140, 244-250.	2.2	36
75	Heat transfer characteristics and internal fluidity of a sessile droplet on hydrophilic and hydrophobic surfaces. Applied Thermal Engineering, 2016, 108, 628-640.	3.0	36
76	Chemo-Mechanical Characteristics of Mud Formed from Environmental Dust Particles in Humid Ambient Air. Scientific Reports, 2016, 6, 30253.	1.6	35
77	Development of a novel solar-based integrated system for desalination with heat recovery. Applied Thermal Engineering, 2018, 129, 1618-1633.	3.0	35
78	Analytical solution for the heat conduction mechanism appropriate to the laser heating process. International Communications in Heat and Mass Transfer, 1993, 20, 545-555.	2.9	34
79	Laser surface modification treatment of aluminum bronze with B4C. Applied Surface Science, 2012, 263, 804-809.	3.1	34
80	Multi-objective thermal analysis of a thermoelectric device: Influence of geometric features on device characteristics. Energy, 2014, 77, 305-317.	4.5	34
81	Thermoelectric generator performance analysis: Influence of pin tapering on the first and second law efficiencies. Energy Conversion and Management, 2015, 100, 138-146.	4.4	34
82	Mechanics of dust removal from rotating disk in relation to self-cleaning applications of PV protective cover. Solar Energy, 2016, 130, 193-206.	2.9	34
83	HVOF coating of Inconel 625 onto stainless and carbon steel surfaces: corrosion and bond testing. Journal of Materials Processing Technology, 2004, 155-156, 2051-2055.	3.1	33
84	Laser evaporative heating of surface: simulation of flow field in the laser produced cavity. Journal Physics D: Applied Physics, 2006, 39, 3863-3875.	1.3	33
85	Closed-form and numerical solutions to the laser heating process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1998, 212, 141-151.	1.1	32
86	Analytical investigation into laser pulse heating and thermal stresses. Optics and Laser Technology, 2009, 41, 132-139.	2.2	32
87	Laser cutting of sharp edge: Thermal stress analysis. Optics and Lasers in Engineering, 2010, 48, 10-19.	2.0	32
88	The analysis of CO2 laser cutting. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1997, 211, 223-232.	1.5	31
89	The Journal of Fluids: An International and Interdisciplinary Scientific Open Access Journal. Fluids, 2016, 1, 1.	0.8	31
90	Configuration of segmented leg for the enhanced performance of segmented thermoelectric generator. International Journal of Energy Research, 2017, 41, 274-288.	2.2	31

#	ARTICLE	IF	CITATIONS
91	Pulsative heating of surfaces. International Journal of Heat and Mass Transfer, 1998, 41, 3899-3918.	2.5	30
92	Repetitive laser pulse heating analysis: Pulse parameter variation effects on closed form solution. Applied Surface Science, 2006, 252, 2242-2250.	3.1	30
93	Entropy generation in a pipe due to non-Newtonian fluid flow: Constant viscosity case. Sadhana - Academy Proceedings in Engineering Sciences, 2006, 31, 21-29.	0.8	30
94	Laser control melting of alumina surfaces and thermal stress analysis. Optics and Laser Technology, 2011, 43, 858-865.	2.2	30
95	Laser bending of metal sheet and thermal stress analysis. Optics and Laser Technology, 2014, 61, 34-44.	2.2	30
96	Laser treatment of Ti-6Al-4V alloy prior to plasma nitriding. Journal of Materials Processing Technology, 2000, 103, 304-309.	3.1	29
97	Entropy analysis of concentric annuli with rotating outer cylinder. Exergy an International Journal, 2001, 1, 60-66.	0.7	29
98	Repetitive laser pulse heating with a convective boundary condition at the surface. Journal Physics D: Applied Physics, 2001, 34, 222-231.	1.3	29
99	Laser cutting of thick sheet metals: Residual stress analysis. Optics and Laser Technology, 2009, 41, 224-232.	2.2	29
100	Investigation into topping cycle: Thermal efficiency with and without presence of thermoelectric generator. Energy, 2011, 36, 4048-4054.	4.5	29
101	Numerical investigation of liquid flow with phase change nanoparticles in microchannels. International Journal of Heat and Fluid Flow, 2012, 38, 159-167.	1.1	29
102	Laser cutting of Kevlar laminates and thermal stress formed at cutting sections. Optics and Lasers in Engineering, 2012, 50, 204-209.	2.0	29
103	A model study for cyclic thermal loading and thermal performance of a thermoelectric generator. International Journal of Energy Research, 2014, 38, 1351-1360.	2.2	29
104	Comparative study: Mechanical and metallurgical aspects of tailored welded blanks (TWBs). Journal of Materials Processing Technology, 2008, 204, 440-450.	3.1	28
105	Laser cutting of 7050 Al alloy reinforced with Al <sub>2</sub> O <sub>3</sub> and B <sub>4</sub> C composites. International Journal of Advanced Manufacturing Technology, 2010, 50, 185-193.	1.5	28
106	Phonon radiative transport in silicon-aluminum thin films: Frequency dependent case. International Journal of Thermal Sciences, 2012, 57, 54-62.	2.6	28
107	Thermal characteristics of combined thermoelectric generator and refrigeration cycle. Energy Conversion and Management, 2014, 83, 42-47.	4.4	28
108	Electron kinetic theory approach - one- and three-dimensional heating with pulsed laser. International Journal of Heat and Mass Transfer, 2001, 44, 1925-1936.	2.5	27

#	ARTICLE	IF	CITATIONS
109	Short-pulse laser heating of gold-chromium layers: thermo-elasto-plastic analysis. Journal Physics D: Applied Physics, 2002, 35, 1210-1217.	1.3	27
110	Laser cutting of holes in thick sheet metals: Development of stress field. Optics and Lasers in Engineering, 2009, 47, 909-916.	2.0	27
111	The closed form solutions for Cattaneo and stress equations due to step input pulse heating. Physica B: Condensed Matter, 2010, 405, 3869-3874.	1.3	27
112	Laser cutting of alumina tiles: Heating and stress analysis. Journal of Manufacturing Processes, 2013, 15, 14-24.	2.8	27
113	Melting enhancement of a phase change material with presence of a metallic mesh. Applied Thermal Engineering, 2015, 79, 163-173.	3.0	27
114	Segmented thermoelectric generator: Influence of pin shape configuration on the device performance. Energy, 2016, 111, 439-452.	4.5	27
115	Overall performance assessment of a combined cycle power plant: An exergo-economic analysis. Energy Conversion and Management, 2016, 116, 91-100.	4.4	27
116	Conjugate heat transfer in fully developed laminar pipe flow and thermally induced stresses. Computer Methods in Applied Mechanics and Engineering, 2000, 190, 1091-1104.	3.4	26
117	Residual stress analysis for hvof diamalloy 1005 coating on TiAl <sub>4</sub> V alloy. Surface and Coatings Technology, 2007, 202, 559-568.	2.2	26
118	Effect of WC on the residual stress in the laser treated HVOF coating. Journal of Materials Processing Technology, 2009, 209, 3172-3181.	3.1	26
119	Characterization of microplastic deformation produced in 6061-T6 by using laser shock processing. International Journal of Advanced Manufacturing Technology, 2014, 71, 109-115.	1.5	26
120	Laser gas assisted treatment of AISI H12 tool steel and corrosion properties. Optics and Lasers in Engineering, 2014, 54, 8-13.	2.0	26
121	Measurement of temperature-dependent reflectivity of Cu and Al in the range 30-1000 degrees C. Measurement Science and Technology, 1991, 2, 668-674.	1.4	25
122	Laser produced melt pool: Influence of laser intensity parameter on flow field in melt pool. Optics and Laser Technology, 2011, 43, 767-775.	2.2	25
123	Laser bending of AISI 304 steel sheets: Thermal stress analysis. Optics and Laser Technology, 2012, 44, 303-309.	2.2	25
124	Why solidification has an S-shaped history. Scientific Reports, 2013, 3, .	1.6	25
125	Droplet heat transfer on micro-post arrays: Effect of droplet size on droplet thermal characteristics. International Journal of Heat and Fluid Flow, 2017, 68, 62-78.	1.1	25
126	Water droplet on inclined dusty hydrophobic surface: influence of droplet volume on environmental dust particles removal. RSC Advances, 2019, 9, 3582-3596.	1.7	25



#	ARTICLE	IF	CITATIONS
127	Turbulent boundary layer approach allowing chemical reactions for CO2 laser oxygen-assisted cutting process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1994, 208, 275-284.	1.1	24
128	Development of a new drying correlation for practical applications. International Journal of Energy Research, 2002, 26, 245-251.	2.2	24
129	Thermal stresses due to time exponentially decaying laser pulse: elasto-plastic wave propagations. International Journal of Mechanical Sciences, 2004, 46, 57-80.	3.6	24
130	Laser heating of sheet metal and thermal stress development. Journal of Materials Processing Technology, 2004, 155-156, 2045-2050.	3.1	24
131	Laser treatment of aluminum surface: Analysis of thermal stress field in the irradiated region. Journal of Materials Processing Technology, 2009, 209, 77-88.	3.1	24
132	Analytical solution of hyperbolic heat conduction equation in relation to laser short-pulse heating. Physica B: Condensed Matter, 2011, 406, 1550-1555.	1.3	24
133	Laser hole cutting into Ti-6Al-4V alloy and thermal stress analysis. International Journal of Advanced Manufacturing Technology, 2012, 59, 997-1008.	1.5	24
134	Influence of multiple nitriding on the case hardening of H13 tool steel: experimental and numerical investigation. International Journal of Advanced Manufacturing Technology, 2012, 58, 57-70.	1.5	24
135	Laser hole cutting in aluminum foam: Influence of hole diameter on thermal stress. Optics and Lasers in Engineering, 2013, 51, 23-29.	2.0	24
136	Thermal Characteristics of Latent Heat Thermal Storage: Comparison of Aluminum Foam and Mesh Configurations. Numerical Heat Transfer; Part A: Applications, 2015, 68, 99-116.	1.2	24
137	Surface Characteristics of Silicon Nanowires/Nanowalls Subjected to Octadecyltrichlorosilane Deposition and n-octadecane Coating. Scientific Reports, 2016, 6, 38678.	1.6	24
138	Analytical solution for thermal stresses during the laser pulse heating process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 1429-1445.	1.1	23
139	Laser heating including the phase change process and thermal stress generation in relation to drilling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 977-991.	1.5	23
140	JET IMPINGEMENT ONTO A HOLE WITH CONSTANT WALL TEMPERATURE. Numerical Heat Transfer; Part A: Applications, 2003, 43, 843-865.	1.2	23
141	Laser repetitive pulse heating and melt pool formation at the surface. Journal of Mechanical Science and Technology, 2011, 25, 479-487.	0.7	23
142	Laser heating of titanium and steel: Phase change at the surface. International Journal of Thermal Sciences, 2012, 54, 230-241.	2.6	23
143	Laser straight cutting of alumina tiles: thermal stress analysis. International Journal of Advanced Manufacturing Technology, 2012, 58, 1019-1030.	1.5	23
144	Radiative phonon transport in silicon and collisional energy transfer in aluminum films due to laser short-pulse heating: Influence of laser pulse intensity on temperature distribution. Optics and Laser Technology, 2012, 44, 43-50.	2.2	23

#	ARTICLE	IF	CITATIONS
145	Laser Texturing of Plasma Electrolytically Oxidized Aluminum 6061 Surfaces for Improved Hydrophobicity. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	1.3	23
146	Laser cutting of triangular blanks from thick aluminum foam plate: Thermal stress analysis and morphology. Applied Thermal Engineering, 2014, 62, 28-36.	3.0	23
147	Replication of laser-textured alumina surfaces by polydimethylsiloxane: Improvement of surface hydrophobicity. Journal of Applied Polymer Science, 2016, 133, .	1.3	23
148	Influence of thermal capillary and buoyant forces on flow characteristics in a droplet on hydrophobic surface. International Journal of Thermal Sciences, 2016, 102, 239-253.	2.6	23
149	Laser texturing of Hastelloy C276 alloy surface for improved hydrophobicity and friction coefficient. Optics and Lasers in Engineering, 2016, 78, 140-147.	2.0	23
150	Hydrophobic and optical characteristics of graphene and graphene oxide films transferred onto functionalized silica particles deposited glass surface. Applied Surface Science, 2018, 442, 213-223.	3.1	23
151	Investigation into Development of Liquid Layer and Formation of Surface Plasma During CO <sub>2</sub> Laser Cutting Process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1992, 206, 287-298.	1.5	22
152	Some aspects of laser heating of engineering materials. Journal of Laser Applications, 1996, 8, 197-204.	0.8	22
153	Modelling and Experimental Study Into the Laser Assisted Nitriding of Ti-6Al-4V Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2002, 124, 863-874.	1.3	22
154	Electrochemical properties of the laser nitrided surfaces of Ti-6Al-4V alloy. Surface and Coatings Technology, 2006, 201, 679-685.	2.2	22
155	Laser gas assisted nitriding and tin coating of Ti-6Al-4V alloy: Experimental and numerical investigation of mechanical properties. Journal of Materials Processing Technology, 2009, 209, 1199-1208.	3.1	22
156	Laser texturing of zirconia surface with presence of TiC and B <sub>4</sub> C: Surface hydrophobicity, metallurgical, and mechanical characteristics. Ceramics International, 2014, 40, 16159-16167.	2.3	22
157	Non-equilibrium energy transport in a thin metallic film: Analytical solution for radiative transport equation. Physica B: Condensed Matter, 2014, 454, 15-22.	1.3	22
158	Influence of mud residues on solvent induced crystalized polycarbonate surface used as PV protective cover. Solar Energy, 2016, 125, 282-293.	2.9	22
159	Water droplet mobility on a hydrophobic surface under a thermal radiative heating. Applied Thermal Engineering, 2018, 128, 92-106.	3.0	22
160	HVOF coating and laser treatment: three-point bending tests. Journal of Materials Processing Technology, 2005, 164-165, 954-957.	3.1	21
161	Three-point bend testing of HVOF AMDRY 9954 coating on Ti-6Al-4V alloy. Journal of Materials Processing Technology, 2006, 174, 204-210.	3.1	21
162	Laser gas assisted nitriding of alumina surfaces. Surface Engineering, 2009, 25, 235-240.	1.1	21

#	ARTICLE	IF	CITATIONS
163	Laser controlled melting of pre-prepared inconel 718 alloy surface. Optics and Lasers in Engineering, 2011, 49, 1314-1319.	2.0	21
164	Phonon and electron transport in aluminum thin film: Influence of film thickness on electron and lattice temperatures. Physica B: Condensed Matter, 2012, 407, 4643-4648.	1.3	21
165	Laser control melting of alumina surfaces with presence of B4C particles. Journal of Alloys and Compounds, 2012, 539, 12-16.	2.8	21
166	Laser treatment of dual matrix structured cast iron surface: Corrosion resistance of surface. Optics and Lasers in Engineering, 2015, 64, 17-22.	2.0	21
167	A thermal battery mimicking a concentrated volumetric solar receiver. Applied Energy, 2016, 175, 16-30.	5.1	21
168	The Study of Laser Produced Plasma Behaviour Using Streak Photography. Japanese Journal of Applied Physics, 1985, 24, 1417-1420.	0.8	20
169	Three-dimensional laser heating including evaporationâ€™a kinetic theory approach. International Journal of Heat and Mass Transfer, 1998, 41, 1969-1981.	2.5	20
170	Three-Dimensional Laser Heating Model and Entropy Generation Consideration. Journal of Energy Resources Technology, Transactions of the ASME, 1999, 121, 217-224.	1.4	20
171	Corrosion Properties of Inconel 617 Alloy after Heat Treatment at Elevated Temperature. Journal of Materials Engineering and Performance, 2001, 10, 108-113.	1.2	20
172	Investigation Into Laser Shock Processing. Journal of Materials Engineering and Performance, 2004, 13, 47-54.	1.2	20
173	Laser heating of a moving slab: Influence of laser intensity parameter and scanning speed on temperature field and melt size. Optics and Lasers in Engineering, 2011, 49, 265-272.	2.0	20
174	Characteristics of laser textured silicon surface and effect of mud adhesion on hydrophobicity. Applied Surface Science, 2015, 351, 880-888.	3.1	20
175	System development for solar energy-based hydrogen production and on-site combustion in HCCI engine for power generation. Solar Energy, 2016, 136, 65-77.	2.9	20
176	[INVITED] Laser treatment of Inconel 718 alloy and surface characteristics. Optics and Laser Technology, 2016, 78, 153-158.	2.2	20
177	Surface Engineering towards Self-Cleaning Applications: Laser Textured Silicon Surface. Procedia Engineering, 2017, 184, 716-724.	1.2	20
178	Plasma transients during laser drilling in subatmospheric pressure atmospheres of air. Optics and Lasers in Engineering, 1986, 7, 1-13.	2.0	19
179	Effect of Oxygen in Laser Cutting Process. Materials and Manufacturing Processes, 1997, 12, 1163-1175.	2.7	19
180	The Taguchi method for determining CO2 laser cut quality. Journal of Laser Applications, 1998, 10, 71-77.	0.8	19

#	ARTICLE	IF	CITATIONS
181	A laminar swirling jet impingement on to an adiabatic wall –Effect of inlet velocity profiles. International Journal of Numerical Methods for Heat and Fluid Flow, 2001, 11, 237-254.	1.6	19
182	Entropy Production During Laser Picosecond Heating of Copper. Journal of Energy Resources Technology, Transactions of the ASME, 2002, 124, 204-213.	1.4	19
183	Laser shock processing of aluminium: model and experimental study. Journal Physics D: Applied Physics, 2007, 40, 6740-6747.	1.3	19
184	Laser hole cutting in Kevlar: modeling and quality assessment. International Journal of Advanced Manufacturing Technology, 2008, 38, 1125.	1.5	19
185	Wedge cutting of mild steel by CO2 laser and cut-quality assessment in relation to normal cutting. Optics and Lasers in Engineering, 2008, 46, 777-784.	2.0	19
186	Laser pulse heating and phase changes in the irradiated region: Temperature-dependent thermal properties case. International Journal of Thermal Sciences, 2009, 48, 761-772.	2.6	19
187	Laser nitriding of tool steel: thermal stress analysis. International Journal of Advanced Manufacturing Technology, 2010, 49, 1009-1018.	1.5	19
188	Laser repetitive pulse heating of tool surface. Optics and Laser Technology, 2011, 43, 754-761.	2.2	19
189	Logistic characteristics of phonon transport in silicon thin film: the S-curve. Physica B: Condensed Matter, 2013, 426, 79-84.	1.3	19
190	Silicone oil impregnated nano silica modified glass surface and influence of environmental dust particles on optical transmittance. RSC Advances, 2017, 7, 29762-29771.	1.7	19
191	Innovative design of a thermoelectric generator of extended legs with tapering and segmented pin configuration: Thermal performance analysis. Applied Thermal Engineering, 2017, 123, 74-91.	3.0	19
192	Study into the Effect of Beam Waist Position on Hole Formation in the Laser Drilling Process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1996, 210, 271-277.	1.5	18
193	Nano-second laser pulse heating and assisting gas jet considerations. International Journal of Machine Tools and Manufacture, 2000, 40, 1023-1038.	6.2	18
194	Influence of Conical and Annular Nozzle Geometric Configurations on Flow and Heat Transfer Characteristics due to Flow Impingement onto a Flat Plate. Numerical Heat Transfer; Part A: Applications, 2005, 48, 917-939.	1.2	18
195	Investigation into thermal stresses in gas turbine transition-piece: Influence of material properties on stress levels. Journal of Materials Processing Technology, 2008, 201, 369-373.	3.1	18
196	Jet impingement onto a conical cavity: Effects of annular nozzle outer angle and jet velocity on heat transfer and skin friction. International Journal of Thermal Sciences, 2009, 48, 985-997.	2.6	18
197	Laser carbonitriding of alumina surface. Optics and Lasers in Engineering, 2011, 49, 341-350.	2.0	18
198	Laser re-melting of HVOF coating with WC blend: Thermal stress analysis. Journal of Materials Processing Technology, 2012, 212, 2569-2577.	3.1	18

#	ARTICLE	IF	CITATIONS
199	Laser Welding of AISI 316 Steel: Microstructural and Stress Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	1.3	18
200	Laser controlled melting of HSLA steel surface with presence of B4C particles. Applied Surface Science, 2013, 282, 601-606.	3.1	18
201	Internal fluidity of a sessile droplet with the presence of particles on a hydrophobic surface. Numerical Heat Transfer; Part A: Applications, 2016, 70, 1118-1140.	1.2	18
202	Laser Nitriding of the Newly Developed Ti-20Nb-13Zr at.% Biomaterial Alloy to Enhance Its Mechanical and Corrosion Properties in Simulated Body Fluid. Journal of Materials Engineering and Performance, 2017, 26, 5553-5562.	1.2	18
203	Characteristics of oil impregnated hydrophobic glass surfaces in relation to self-cleaning of environmental dust particles. Solar Energy Materials and Solar Cells, 2017, 171, 8-15.	3.0	18
204	Surfaces for Self-Cleaning. , 2019, , 45-98.		18
205	Solar energy harvesting and self-cleaning of surfaces by an impacting water droplet. International Journal of Energy Research, 2020, 44, 388-401.	2.2	18
206	A novel renewable energy-based integrated system with thermoelectric generators for a net-zero energy house. International Journal of Energy Research, 2020, 44, 3458-3477.	2.2	18
207	Study of some characteristics of the plasma generated during a CO2 laser beam cutting process. Optics and Laser Technology, 1992, 24, 33-38.	2.2	17
208	Study into penetration speed during CO2 laser cutting of stainless steel. Optics and Lasers in Engineering, 1992, 17, 69-82.	2.0	17
209	Laser heating mechanism including evaporation process. International Communications in Heat and Mass Transfer, 1994, 21, 509-518.	2.9	17
210	Thermal Stress Development Due to Laser Step Input Pulse Heating. Journal of Thermal Stresses, 2006, 29, 721-751.	1.1	17
211	Laser gas assisted melting of preprepared alumina surface including TiC particles at surface. Surface Engineering, 2011, 27, 470-476.	1.1	17
212	Laser heating of a moving slab: Influence pulse intensity parameter on temperature and stress fields. Optics and Laser Technology, 2015, 70, 7-16.	2.2	17
213	Solvent-induced crystallization of a polycarbonate surface and texture copying by polydimethylsiloxane for improved surface hydrophobicity. Journal of Applied Polymer Science, 2016, 133, .	1.3	17
214	Environmental dust effects on aluminum surfaces in humid air ambient. Scientific Reports, 2017, 7, 45999.	1.6	17
215	Segmented thermoelectric generator: exponential area variation in leg. International Journal of Energy Research, 2018, 42, 477-489.	2.2	17
216	Stretchable Hydrophobic Surfaces and Self-Cleaning Applications. Scientific Reports, 2019, 9, 14697.	1.6	17

#	ARTICLE	IF	CITATIONS
217	Surface line and plug flow models governing laser produced vapour from metallic surfaces. <i>Pramana - Journal of Physics</i> , 1992, 38, 195-209.	0.9	16
218	Thermal and efficiency analysis of CO <sub>2</sub> laser cutting process. <i>Optics and Lasers in Engineering</i> , 1998, 29, 17-32.	2.0	16
219	Investigation into a confined laminar swirling jet and entropy production. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002, 12, 870-887.	1.6	16
220	Laser Pulse Heating of Steel Surface: Consideration of Phase-Change Process. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006, 50, 787-807.	1.2	16
221	Laser heating: jet emanating from laser induced cavity. <i>International Journal of Thermal Sciences</i> , 2007, 46, 385-398.	2.6	16
222	Laser welding of Haynes 188 alloy sheet: thermal stress analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 115-124.	1.5	16
223	Thermal stress analysis of spiral laser-welded tube. <i>Journal of Materials Processing Technology</i> , 2011, 211, 675-687.	3.1	16
224	Laser cutting of small diameter hole in aluminum foam. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 101-111.	1.5	16
225	Measurement of Thermal and Electrical Properties of Multiwalled Carbon Nanotubesâ€œWater Nanofluid. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	16
226	Environmental Dust Particles Repelling from A Hydrophobic Surface under Electrostatic Influence. <i>Scientific Reports</i> , 2019, 9, 8703.	1.6	16
227	Hydrogen embrittlement of Ti-6Al-4V alloy with surface modification by TiN coating. <i>International Journal of Hydrogen Energy</i> , 1998, 23, 483-489.	3.8	15
228	Study of Parameters for CO <sub>2</sub> Laser Cutting Process. <i>Materials and Manufacturing Processes</i> , 1998, 13, 517-536.	2.7	15
229	Entropy analysis of a flow past a heat-generated bluff body. <i>International Journal of Energy Research</i> , 1999, 23, 1133-1142.	2.2	15
230	Jet impingement onto a cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002, 12, 817-838.	1.6	15
231	ESEM evaluation of Inconel-625 thermal spray coating (HVOF) onto stainless steel and carbon steel post brine exposure after tensile tests. <i>Journal of Materials Processing Technology</i> , 2006, 173, 44-52.	3.1	15
232	Laser consecutive pulse heating in relation to melting: influence of duty cycle on melting. <i>Heat and Mass Transfer</i> , 2009, 45, 793-803.	1.2	15
233	Laser melting of carbide tool surface: Model and experimental studies. <i>Applied Surface Science</i> , 2009, 255, 9396-9403.	3.1	15
234	Laser consecutive pulse heating and phase change: Influence of spatial distribution of laser pulse intensity on melting. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1960-1966.	2.6	15

#	ARTICLE	IF	CITATIONS
235	Influence of Surface Preparation on the Kinetics of Controlled Gas-Nitrided AISI H13 Steels Used in Extrusion Dies. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 347-355.	1.2	15
236	Laser cutting of steel and thermal stress development. <i>Optics and Laser Technology</i> , 2011, 43, 830-837.	2.2	15
237	Investigation into thermal performance of nanosized phase change material (PCM) in microchannel flow. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 23, 233-247.	1.6	15
238	Laser cutting of triangular geometries in aluminum foam: Effect of cut size on thermal stress levels. <i>Optics and Laser Technology</i> , 2013, 48, 523-529.	2.2	15
239	Laser Cutting of Aluminum Foam: Experimental and Model Studies. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2013, 135, .	1.3	15
240	Laser cutting of rectangular geometry into aluminum alloy: Effect of cut sizes on thermal stress field. <i>Optics and Lasers in Engineering</i> , 2014, 61, 57-66.	2.0	15
241	Laser surface treatment of aluminum based composite mixed with B4C particles. <i>Optics and Laser Technology</i> , 2015, 66, 129-137.	2.2	15
242	Ballistic phonon and thermal radiation transport across a minute vacuum gap in between aluminum and silicon thin films: Effect of laser repetitive pulses on transport characteristics. <i>Physica B: Condensed Matter</i> , 2016, 495, 21-34.	1.3	15
243	Influence of pin material configurations on thermoelectric generator performance. <i>Energy Conversion and Management</i> , 2016, 129, 157-167.	4.4	15
244	Internal flow and heat transfer in a droplet located on a superhydrophobic surface. <i>International Journal of Thermal Sciences</i> , 2017, 121, 213-227.	2.6	15
245	A study into CO <sub>2</sub> laser cutting process. <i>Heat and Mass Transfer</i> , 1997, 32, 175-180.	1.2	14
246	Gas-assisted laser repetitive pulsed heating of a steel surface. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1998, 212, 741-757.	1.1	14
247	Formulation of laser-induced thermal stresses: Stress boundary at the surface. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003, 217, 423-434.	1.1	14
248	Jet impingement on cylindrical cavity: Conical nozzle considerations. <i>Journal of Fluids and Structures</i> , 2007, 23, 1106-1118.	1.5	14
249	Perturbation solution for a third-grade fluid flowing between parallel plates. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008, 222, 653-656.	1.1	14
250	Analytical solution for non-equilibrium energy transfer in gold: Influence of ballistic contribution of electrons on energy transfer. <i>International Journal of Thermal Sciences</i> , 2009, 48, 383-390.	2.6	14
251	Laser gas-assisted processing of carbon coated and TiC embedded Ti-6Al-4V alloy surface. <i>Applied Surface Science</i> , 2010, 257, 531-537.	3.1	14
252	Laser Remelting of Zirconia Surface: Investigation into Stress Field and Microstructures. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1277-1287.	2.7	14



#	ARTICLE	IF	CITATIONS
253	FREQUENCY DEPENDENT PHONON TRANSPORT IN TWO-DIMENSIONAL SILICON AND DIAMOND THIN FILMS. Modern Physics Letters B, 2012, 26, 1250104.	1.0	14
254	Laser nitriding of the surface of phosphor bronze. International Journal of Advanced Manufacturing Technology, 2013, 65, 1553-1565.	1.5	14
255	Laser ablation of phosphor bronze for superhydrophobic surface. Surface Engineering, 2016, 32, 885-892.	1.1	14
256	Laser gas assisted nitriding and sol-gel coating Of alumina surfaces: Effect Of environmental dust on surfaces. Surface and Coatings Technology, 2016, 289, 11-22.	2.2	14
257	Environmental dust removal from inclined hydrophobic glass surface: avalanche influence on dynamics of dust particles. RSC Advances, 2018, 8, 33775-33785.	1.7	14
258	Droplet Impacting on a Hydrophobic Surface: Influence of Surface Wetting State on Droplet Behavior. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	14
259	3-dimensional modeling of laser repetitive pulse heating: a phase change and a moving heat source considerations. Applied Surface Science, 1998, 134, 159-178.	3.1	13
260	Analytical solution for laser evaporative heating process: time exponentially decaying pulse case. Journal Physics D: Applied Physics, 2001, 34, 3303-3311.	1.3	13
261	Laser Short-Pulse Heating of Gold-Silver Assembly: Entropy Generation Due to Heat and Electricity Flows in Electron Subsystem. Numerical Heat Transfer; Part A: Applications, 2006, 49, 873-891.	1.2	13
262	Laser repetitive pulse heating influence of pulse duty on temperature rise. Heat and Mass Transfer, 2007, 43, 949-955.	1.2	13
263	Laser Cutting of Alloy Steel: Three-Dimensional Modeling of Temperature and Stress Fields. Materials and Manufacturing Processes, 2011, 26, 104-112.	2.7	13
264	Laser short-pulse heating of silicon-aluminum thin films. Optical and Quantum Electronics, 2011, 42, 601-618.	1.5	13
265	Entropy Generation in Microchannel Flow with Presence of Nanosized Phase Change Particles. Journal of Thermophysics and Heat Transfer, 2012, 26, 134-140.	0.9	13
266	Laser multi-beam heating of moving steel sheet: Thermal stress analysis. Optics and Lasers in Engineering, 2013, 51, 446-452.	2.0	13
267	Laser cutting of rectangular geometry in 2024 aluminum alloy: Thermal stress analysis. Optics and Laser Technology, 2014, 64, 247-256.	2.2	13
268	Effect of mud drying temperature on surface characteristics of a polycarbonate PV protective cover. Solar Energy, 2017, 143, 63-72.	2.9	13
269	Analysis of environmental dust and mud adhesion on aluminum surface in relation to solar energy harvesting. Solar Energy, 2017, 153, 590-599.	2.9	13
270	Heat Transfer and Fluid Flow Characteristics in a Sessile Droplet on Oil-Impregnated Surface Under Thermal Disturbance. Journal of Heat Transfer, 2017, 139, .	1.2	13



#	ARTICLE	IF	CITATIONS
271	A Solar Volumetric Receiver: Influence of Absorbing Cells Configuration on Device Thermal Performance. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	13
272	Heat and flow analysis of a water droplet on hydrophobic and hydrophilic phase change material. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 749-764.	2.5	13
273	Droplet dynamics on a hydrophobic surface coated with N-octadecane phase change material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 546, 28-39.	2.3	13
274	CO 2 laser cutting of Incoloy 800 HT alloy and its quality assessment. <i>Lasers in Engineering</i> , 2002, 12, 135-145.	0.1	13
275	A study of parameters affecting the continuous CO <sub>2</sub> laser cuts. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 1987, 10, 543-547.	0.6	12
276	Laser Assisted Nitriding of Ti-6Al-4V Alloy: Metallurgical and Electrochemical Properties. <i>Chemical Engineering and Technology</i> , 1999, 22, 871-876.	0.9	12
277	Entropy analysis of conjugate heating in a pipe flow. <i>International Journal of Energy Research</i> , 2002, 26, 253-262.	2.2	12
278	Laser non-conduction limited heating and prediction of surface recession velocity in relation to drilling. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003, 217, 1067-1075.	1.1	12
279	Entropy Generation Due to the Flow of a Non-Newtonian Fluid with Variable Viscosity in a Circular Pipe. <i>Heat Transfer Engineering</i> , 2005, 26, 80-86.	1.2	12
280	Laser shock processing: modeling of evaporation and pressure field developed in the laser-produced cavity. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 42, 250-262.	1.5	12
281	Analytical solution for electron and lattice site temperatures due to laser-induced non-equilibrium energy transport in metals. <i>Canadian Journal of Physics</i> , 2010, 88, 479-491.	0.4	12
282	Closed-form solution of Cattaneo equation including volumetric source in relation to laser short-pulse heating. <i>Canadian Journal of Physics</i> , 2011, 89, 761-767.	0.4	12
283	Exact solution for temperature field due to non-equilibrium heating of solid substrate. <i>Physica B: Condensed Matter</i> , 2011, 406, 4523-4528.	1.3	12
284	Phonon transport in two-dimensional silicon thin film: influence of film width and boundary conditions on temperature distribution. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	12
285	Transient Effects of Phonon Transport in Two-Dimensional Silicon Film. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 742-760.	1.2	12
286	Laser embedding of TiC particles into the surface of phosphor bronze bearing material. <i>Surface and Interface Analysis</i> , 2012, 44, 831-836.	0.8	12
287	Phonon Transport in Thin Film: Ballistic Phonon Contribution to Energy Transport. <i>Numerical Heat Transfer; Part A: Applications</i> , 2013, 64, 800-819.	1.2	12
288	Thermal characteristics of a volumetric solar absorption system. <i>International Journal of Energy Research</i> , 2014, 38, 581-591.	2.2	12

#	ARTICLE	IF	CITATIONS
289	Flow Field Inside a Sessile Droplet on a Hydrophobic Surface in Relation to Self Cleaning Applications of Dust Particles. Journal of Heat Transfer, 2017, 139, .	1.2	12
290	Reversible exchange of wetting state of a hydrophobic surface <i>via</i> phase change material coating. RSC Advances, 2018, 8, 938-947.	1.7	12
291	Laser texturing of Inconel 718 alloy surface: Influence of environmental dust in humid air ambient. Optics and Laser Technology, 2018, 108, 346-354.	2.2	12
292	Exergo-economic optimization of concentrated solar photovoltaic and thermoelectric hybrid generator. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1035-1052.	2.0	12
293	Thermo-economic optimization of a hybrid photovoltaic and thermoelectric power generator using overall performance index. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1815-1829.	2.0	12
294	Experimental and Model Studies of Various Size Water Droplet Impacting on a Hydrophobic Surface. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	12
295	Axisymmetric stagnation point flow on linearly stretching surfaces and heat transfer: Nanofluid with variable physical properties. Case Studies in Thermal Engineering, 2021, 24, 100839.	2.8	12
296	Laser Heating Mechanisms Including Evaporation Process-Semiclassical and Kinetic Theory Approaches. Japanese Journal of Applied Physics, 1995, 34, 6391-6400.	0.8	11
297	ELECTRON KINETIC THEORY APPROACH FOR PICOSECOND LASER PULSE HEATING. Numerical Heat Transfer; Part A: Applications, 2001, 39, 823-845.	1.2	11
298	Laser pulse heating and thermal stress developments: Elastoplastic analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2004, 218, 375-388.	1.5	11
299	Jet impingement onto a conical cavity with elevated wall temperature. International Journal of Numerical Methods for Heat and Fluid Flow, 2004, 14, 1011-1028.	1.6	11
300	Analytical solution for temperature field in electron and lattice sub-systems during heating of solid film. Physica B: Condensed Matter, 2006, 382, 213-219.	1.3	11
301	Entropy generation in laminar jet: effect of velocity profiles at nozzle exit. Heat and Mass Transfer, 2006, 42, 771-777.	1.2	11
302	Laser heating of semi-infinite solid with consecutive pulses: Influence of material properties on temperature field. Optics and Laser Technology, 2008, 40, 472-480.	2.2	11
303	Laser Cutting of Rectangular Blanks in Thick Sheet Steel: Effect of Cutting Speed on Thermal Stresses. Journal of Materials Engineering and Performance, 2010, 19, 177-184.	1.2	11
304	Microstructure and Thermal Stress Distributions in Laser Carbonitriding Treatment of Ti-6Al-4V Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	11
305	Energy transport in silicon-aluminum composite thin film during laser short-pulse irradiation. Optical and Quantum Electronics, 2012, 44, 437-457.	1.5	11
306	Closed form solutions for thermal stress field due to non-equilibrium heating during laser short-pulse irradiation. Physica B: Condensed Matter, 2012, 407, 2169-2175.	1.3	11

#	ARTICLE	IF	CITATIONS
307	Analytical solution for phonon transport across thin films. Journal of Non-Equilibrium Thermodynamics, 2013, 38, .	2.4	11
308	Laser Pulse Heating of Surfaces and Thermal Stress Analysis. Materials Forming, Machining and Tribology, 2014, , .	0.7	11
309	Phonon Transport Characteristics in a Thin Silicon Film. Journal of Computational and Theoretical Transport, 2015, 44, 154-174.	0.3	11
310	Laser controlled melting of H12 hot-work tool steel with B4C particles at the surface. Optics and Laser Technology, 2015, 74, 36-42.	2.2	11
311	Laser pulse heating of steel mixing with WC particles in a irradiated region. Optics and Laser Technology, 2016, 86, 126-135.	2.2	11
312	Phonon transport across nano-scale curved thin films. Physica B: Condensed Matter, 2016, 503, 130-140.	1.3	11
313	Laser circular cutting of Kevlar sheets: Analysis of thermal stress filed and assessment of cutting geometry. Optics and Laser Technology, 2017, 96, 180-189.	2.2	11
314	Thermal and flow analysis of a droplet heating by multi-walls. International Journal of Thermal Sciences, 2019, 138, 247-262.	2.6	11
315	A water droplet-cleaning of a dusty hydrophobic surface: influence of dust layer thickness on droplet dynamics. Scientific Reports, 2020, 10, 14746.	1.6	11
316	Dust removal from a hydrophobic surface by rolling fizzy water droplets. RSC Advances, 2020, 10, 19811-19821.	1.7	11
317	Life cycle analysis for laser welding of alloys. Optics and Laser Technology, 2020, 126, 106064.	2.2	11
318	Laser Short-Pulse Heating of Gold-Copper Two-Layer Assembly: Thermo-Elasto-Plastic Analysis. Japanese Journal of Applied Physics, 2002, 41, 5226-5234.	0.8	10
319	Entropy generation due to jet impingement on a surface: effect of annular nozzle outer angle. International Journal of Numerical Methods for Heat and Fluid Flow, 2007, 17, 677-691.	1.6	10
320	Symmetries and approximate solution of energy transfer equations in short pulse laser heating. International Journal of Thermal Sciences, 2007, 46, 908-913.	2.6	10
321	CO2 laser cutting of Kevlar laminate: influence of assisting gas pressure. International Journal of Advanced Manufacturing Technology, 2009, 45, 62-70.	1.5	10
322	Laser hole cutting into bronze: Thermal stress analysis. Optics and Laser Technology, 2011, 43, 1119-1127.	2.2	10
323	Laser controlled melting of pre-treated zirconia surface. Applied Surface Science, 2011, 257, 6912-6918.	3.1	10
324	Laser surface treatment of pre-prepared Rene 41 surface. Optics and Lasers in Engineering, 2012, 50, 1533-1537.	2.0	10

#	ARTICLE	IF	CITATIONS
325	Laser gas assisted nitriding of Hastelloy G Alloy: thermal stress analysis and characterization. <i>Surface and Interface Analysis</i> , 2012, 44, 352-364.	0.8	10
326	Solar absorption heating in horizontal channel: Influence of absorbing plate location on thermal performance. <i>Energy Conversion and Management</i> , 2013, 74, 140-148.	4.4	10
327	Phonon transport and equivalent equilibrium temperature in thin silicon films. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2013, 38, .	2.4	10
328	Phonon transport in aluminum and silicon film pair: laser short-pulse irradiation at aluminum film surface. <i>Canadian Journal of Physics</i> , 2014, 92, 1614-1622.	0.4	10
329	Influence of heat source size and film thickness on phonon transport in a two-dimensional thin film. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2014, 39, .	2.4	10
330	Laser cutting of rectangular geometry into alumina tiles. <i>Optics and Lasers in Engineering</i> , 2014, 55, 35-43.	2.0	10
331	Enhancement of conventional WC-Co and Inconel 625 HVOF thermal spray coatings by the addition of nanostructured WC-Co for wear/corrosion applications in the oil/gas industry. <i>Advances in Materials and Processing Technologies</i> , 2016, 2, 93-102.	0.8	10
332	Surface and wetting characteristics of textured bisphenolâ€A based polycarbonate surfaces: Acetoneâ€Induced crystallization texturing methods. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	10
333	Assessment of optical transmittance of oil impregnated and non-wetted surfaces in outdoor environment towards solar energy harvesting. <i>Solar Energy</i> , 2018, 163, 25-31.	2.9	10
334	Laser processing of Ti6Al4V alloy: wetting state of surface and environmental dust effects. <i>Heliyon</i> , 2019, 5, e01211.	1.4	10
335	Carbonated Water Droplet Can Ease Dust Mitigation from Hydrophobic Surfaces. <i>Langmuir</i> , 2020, 36, 10504-10518.	1.6	10
336	STUDY INTO A NUMERICAL SOLUTION FOR A PULSED CO2LASER HEATING PROCESS. <i>Numerical Heat Transfer; Part A: Applications</i> , 1995, 28, 487-502.	1.2	9
337	Laser short-pulse heating: moving heat source and convective boundary considerations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 293, 157-177.	1.2	9
338	Laser Nanosecond Pulse Heating of Surfaces and Thermal Stresses. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001, 40, 295-316.	1.2	9
339	Energy and entropy analysis in a square cavity with protruding body: effects of protruding body aspect ratio. <i>International Journal of Energy Research</i> , 2002, 26, 851-866.	2.2	9
340	Laser pulse heating of steel surface and flexural wave analysis. <i>Optics and Lasers in Engineering</i> , 2002, 37, 63-83.	2.0	9
341	Corrosion Behavior of HVOF Coated Sheets. <i>Journal of Thermal Spray Technology</i> , 2003, 12, 572-575.	1.6	9
342	Laser shock processing of Ti-6Al-4V alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2004, 218, 473-482.	1.5	9

#	ARTICLE	IF	CITATIONS
343	Convergence of electron kinetic, two-temperature, and one-temperature models for laser short-pulse heating. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1775-1782.	1.1	9
344	Analytical solution for temperature field in thin film initially heated by a short-pulse laser source. <i>Heat and Mass Transfer</i> , 2005, 41, 1077-1084.	1.2	9
345	Non-Newtonian fluid flow in annular pipes and entropy generation: Temperature-dependent viscosity. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2006, 31, 683-695.	0.8	9
346	Plastic Deformation of Steel Surface Due to Laser Shock Processing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 857-867.	1.5	9
347	High-velocity oxy-fuel coating of AMDRY 9954 on to Ti-6Al-4V alloy: Fracture toughness measurement. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2007, 221, 617-623.	1.5	9
348	Laser treatment of HVOF coating: model study and characterization. <i>Journal of Mechanical Science and Technology</i> , 2007, 21, 1439-1444.	0.7	9
349	Laser Treatment of HVOF Coating: Modeling and Measurement of Residual Stress in Coating. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 644-650.	1.2	9
350	Laser Cutting of Thin Aluminum and Silicon Alloy: Influence of Laser Power on Kerf Width. <i>Advanced Materials Research</i> , 0, 445, 442-447.	0.3	9
351	Lattice Phonon and Electron Temperatures in Silicon-Aluminum Thin Films Pair: Comparison of Boltzmann Equation and Modified Two-Equation Model. <i>Transport Theory and Statistical Physics</i> , 2013, 42, 21-39.	0.4	9
352	Phonon Transport in Silicon-Diamond Thin Film Pairs: Consideration of Thermal Boundary Resistance Due to Cutoff Mismatch and Diffusive Mismatch Models. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 1307-1330.	1.2	9
353	Laser gas assisted texturing of alumina surfaces and effects of environmental dry mud solution on surface characteristics. <i>Ceramics International</i> , 2016, 42, 396-404.	2.3	9
354	Characteristics of a solar selective absorber surface subjected to environmental dust in humid air ambient. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 186-194.	3.0	9
355	Phonon transport in a curved aluminum thin film due to laser short pulse irradiation. <i>Optics and Laser Technology</i> , 2018, 101, 107-115.	2.2	9
356	Laser gas assisted texturing and formation of nitride and oxynitride compounds on alumina surface: Surface response to environmental dust. <i>Optics and Lasers in Engineering</i> , 2018, 102, 1-9.	2.0	9
357	Adhesion of a water droplet on inclined hydrophilic surface and internal fluidity. <i>International Journal of Adhesion and Adhesives</i> , 2020, 96, 102464.	1.4	9
358	Laser alloying of metal surfaces by injecting titanium carbide powders. <i>International Journal of Machine Tools and Manufacture</i> , 1989, 29, 499-503.	6.2	8
359	THERMAL ANALYSIS OF LASER HEAT TREATED ENGINEERING ALLOYS. <i>Surface Engineering</i> , 1997, 13, 149-156.	1.1	8
360	Heat transfer analysis of a semi-infinite solid heated by a laser beam. <i>Heat and Mass Transfer</i> , 1997, 32, 245-253.	1.2	8

#	ARTICLE	IF	CITATIONS
361	ENTROPY ANALYSIS IN AN Au-Cr TWO-LAYER ASSEMBLY DURING LASER SHORTPULSE HEATING. Numerical Heat Transfer; Part A: Applications, 2003, 43, 179-199.	1.2	8
362	Laser Short-Pulse Heating of a Gold Surface: Comparison of Absorption and Surface Heat Flux Heating Situations. Numerical Heat Transfer; Part A: Applications, 2007, 52, 87-100.	1.2	8
363	High-velocity oxy-fuel thermally sprayed CoNiCrAlY coatings on Ti-6Al-4V alloy: High cycle fatigue properties of coating. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 647-654.	1.5	8
364	Laser Short-Pulse Heating of Silver-Chromium Assembly: Improved Formulation of Electron Kinetic Theory Approach. Numerical Heat Transfer; Part A: Applications, 2007, 52, 565-589.	1.2	8
365	Corrosion properties of HVOF-coated steel in simulated concrete pore electrolyte and concentrated chloride environments. Surface and Coatings Technology, 2007, 202, 433-438.	2.2	8
366	Modelling of residual stresses during laser cutting of small-diameter holes. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2008, 222, 1577-1587.	1.5	8
367	Jet impingement onto a tapered hole: Influence of jet velocity and hole wall velocities on heat transfer and skin friction. International Journal for Numerical Methods in Fluids, 2009, 60, 972-991.	0.9	8
368	Efficiency analysis of laser hole cutting. International Journal of Exergy, 2009, 6, 592.	0.2	8
369	Nitriding of Aluminum Extrusion Die: Effect of Die Geometry. Journal of Materials Engineering and Performance, 2010, 19, 401-412.	1.2	8
370	Laser gas assisted treatment of pre-prepared high strength low alloy steel surface. Journal of Materials Processing Technology, 2011, 211, 1268-1277.	3.1	8
371	Laser cutting of Kevlar laminates: First and second law analysis. Journal of Mechanical Science and Technology, 2011, 25, 855-862.	0.7	8
372	Three-dimensional consideration of jet impingement onto the kerf in relation to laser cutting process: Effect of jet velocity on heat transfer rates. Optics and Lasers in Engineering, 2011, 49, 384-395.	2.0	8
373	Effects of Laser Re-melting on the Corrosion Properties of HVOF Coatings. Journal of Materials Engineering and Performance, 2013, 22, 1505-1511.	1.2	8
374	Laser Drilling. SpringerBriefs in Applied Sciences and Technology, 2013, , .	0.2	8
375	Laser Treatment of Steel Surfaces. , 2014, , 25-46.		8
376	Fouling resistance of brackish water: Comparison of fouling characteristics of coated carbon steel and titanium tubes. Experimental Thermal and Fluid Science, 2014, 55, 158-165.	1.5	8
377	Size effect on phonon transport in two-dimensional silicon film. Optical and Quantum Electronics, 2014, 46, 1467-1479.	1.5	8
378	Laser treatment of alumina surface with chemically distinct carbide particles. Optics and Laser Technology, 2014, 64, 1-6.	2.2	8

#	ARTICLE	IF	CITATIONS
379	Performance Characteristics of a Volumetric Solar Receiver: Presence of an Absorber Plate with a Selective Surface. Numerical Heat Transfer; Part A: Applications, 2015, 67, 992-1009.	1.2	8
380	Laser treatment of dual matrix cast iron with presence of WC particles at the surface: Influence of self-annealing on stress fields. Optics and Laser Technology, 2016, 76, 6-18.	2.2	8
381	[INVITED] Laser gas assisted treatment of Ti-alloy: Analysis of surface characteristics. Optics and Laser Technology, 2016, 78, 159-166.	2.2	8
382	Innovative design of a solar volumetric receiver: Arrangements of absorbing block configurations. Solar Energy, 2017, 146, 105-112.	2.9	8
383	Thermal transport in thin dielectric films with minute size aluminum dot in relation to microelectronics. Applied Thermal Engineering, 2017, 127, 1025-1035.	3.0	8
384	Water Droplet Adhesion on Hydrophobic Surfaces: Influence of Droplet Size and Inclination Angle of Surface on Adhesion Force. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	8
385	Effect of graphene film on laser textured alumina surface characteristics. Ceramics International, 2017, 43, 2012-2021.	2.3	8
386	Droplet on oil impregnated surface: Temperature and velocity fields. International Journal of Thermal Sciences, 2019, 146, 106054.	2.6	8
387	Solar energy harvesting and a water droplet cleaning of micropost arrays surfaces. International Journal of Energy Research, 2020, 44, 2072-2083.	2.2	8
388	Additive manufacturing of layer of Ti6Al4V alloy: morphology and metallurgical properties. Advances in Materials and Processing Technologies, 2022, 8, 875-883.	0.8	8
389	Droplet Rolling and Spinning in V-Shaped Hydrophobic Surfaces for Environmental Dust Mitigation. Molecules, 2020, 25, 3039.	1.7	8
390	Dust mitigation by rolling water droplets from hydrophobic surfaces. Surfaces and Interfaces, 2021, 22, 100825.	1.5	8
391	Laser Repetitive Pulse Heating of Steel Surface: A Material Response to Thermal Loading. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2002, 124, 595-604.	1.3	7
392	ENTROPY ANALYSIS AND IMPROVED FORMULATION OF ELECTRON KINETIC THEORY APPROACH FOR LASER SHORT-PULSE HEATING. Numerical Heat Transfer, Part B: Fundamentals, 2004, 45, 75-98.	0.6	7
393	LASER SHORT-PULSE HEATING: INFLUENCE OF LASER POWER INTENSITY ON TEMPERATURE FIELDS. Numerical Heat Transfer; Part A: Applications, 2004, 46, 255-275.	1.2	7
394	Laser heating and surface evaporation. International Communications in Heat and Mass Transfer, 2005, 32, 822-830.	2.9	7
395	Analytical approach for entropy generation during a laser-pulse heating process. AIChE Journal, 2006, 52, 1941-1950.	1.8	7
396	Laser pulse heating: Modelling of cavity formation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 307-328.	1.1	7



#	ARTICLE	IF	CITATIONS
397	Laser Cutting of Multilayered Kevlar Plates. Journal of Materials Engineering and Performance, 2007, 16, 663-671.	1.2	7
398	Laser pulse heating and vapor front generation. AICHE Journal, 2008, 54, 627-638.	1.8	7
399	Flow subjected to porous blocks in the cavity: Consideration of block aspect ratio and porosity. Chemical Engineering Journal, 2008, 139, 84-92.	6.6	7
400	Laser cutting of large-aspect-ratio rectangular blanks in thick sheet metal: Thermal stress analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 63-71.	1.5	7
401	Corrosion Properties and Morphology of Laser Melted Aluminum Alloy 8022 Surface. Journal of Materials Engineering and Performance, 2009, 18, 1-7.	1.2	7
402	Laser treatment of silicon at nitrogen ambient: Thermal stress analysis. Surface Engineering, 2011, 27, 436-444.	1.1	7
403	Laser Cutting of Small Diameter Holes Into Alumina Tiles: Thermal Stress Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	7
404	Laser induced melt pool formation in titanium surface: influence of laser scanning speed. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 990-1009.	1.6	7
405	Laser Short-Pulse Interaction of Aluminum and Silicon Films. Journal of Thermophysics and Heat Transfer, 2012, 26, 523-530.	0.9	7
406	Laser Treatment of Rene-41: Thermal and Microstructural Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	1.3	7
407	Phonon Transport in Two-Dimensional Silicon-Diamond Film Pair. Journal of Thermophysics and Heat Transfer, 2013, 27, 465-473.	0.9	7
408	Characterization of laser-treated Rene 41 surface due to B <sub>4</sub> C and SiC particles at surface prior to laser treatment. Surface and Interface Analysis, 2014, 46, 30-35.	0.8	7
409	Entropy generation in silicon thin film: Influence of film thickness on entropy generation rate. Journal of Non-Equilibrium Thermodynamics, 2014, 39, 147-158.	2.4	7
410	Laser Cutting of Triangular Geometry into Alumina Tiles: Morphological Changes and Thermal Stress Analysis. Machining Science and Technology, 2014, 18, 424-447.	1.4	7
411	Tribology and Superhydrophobicity of Laser-Controlled-Melted Alumina Surfaces with Hard Particles. Jom, 2014, 66, 1068-1079.	0.9	7
412	Thermal transport across a thin film composite due to laser short-pulse heating. Journal of Non-Equilibrium Thermodynamics, 2015, 40, 103-120.	2.4	7
413	Laser surface treatment of AISI 304 steel with the presence of B4C particles at the surface. , 2015, , 97-105.		7
414	Energy Transport across the Thin Films Pair with Presence of Minute Vacuum Gap at Interface. Journal of Non-Equilibrium Thermodynamics, 2017, 42, 113-131.	2.4	7



#	ARTICLE	IF	CITATIONS
415	Analysis and Assessment of A Biomass Energy-Based Multigeneration System with Thermoelectric Generators. Energy & Fuels, 2017, 31, 10901-10915.	2.5	7
416	Adhesion characteristics of solution treated environmental dust. Scientific Reports, 2020, 10, 13812.	1.6	7
417	Droplet fluid infusion into a dust layer in relation to self-cleaning. RSC Advances, 2020, 10, 32034-32042.	1.7	7
418	Heating mechanism in relation to the laser machining process. Pramana - Journal of Physics, 1993, 41, 453-465.	0.9	6
419	An optical method to measure the pulsed laser output power intensity distribution in the focal region. Measurement: Journal of the International Measurement Confederation, 1996, 17, 161-172.	2.5	6
420	Three-dimensional electron-kinetic theory approach for laser heating: Moving heat source consideration. Physica A: Statistical Mechanics and Its Applications, 1998, 256, 439-462.	1.2	6
421	LASER SHORT PULSE HEATING WITH CONVECTIVE BOUNDARY CONDITION. Numerical Heat Transfer; Part A: Applications, 2000, 38, 423-442.	1.2	6
422	Laser shortpulse heating of gold: variable properties case. International Journal of Heat and Mass Transfer, 2003, 46, 3511-3520.	2.5	6
423	Numerical investigation of a transient free jet resembling a laser-produced vapor jet. International Journal of Heat and Mass Transfer, 2004, 47, 1037-1052.	2.5	6
424	First and second law analyses of laser cutting process in relation to the end product quality. International Journal of Energy Research, 2008, 32, 689-697.	2.2	6
425	Jet impingement onto a cylindrical cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 182-200.	1.6	6
426	Laser short-pulse heating of silicon film with the presence of metallic substrate. Current Applied Physics, 2010, 10, 1243-1248.	1.1	6
427	Laser straight cutting of zirconia tiles. Journal of Mechanical Science and Technology, 2012, 26, 591-599.	0.7	6
428	CO2 laser heating of surfaces: Melt pool formation at surface. Optics and Laser Technology, 2012, 44, 463-470.	2.2	6
429	Thermal stress distributions and microstructure in laser cutting of thin Al-Si alloy sheet. Journal of Laser Applications, 2013, 25, .	0.8	6
430	Laser induced heating of coated carbon steel sheets: Consideration of melting and Marangoni flow. Optics and Laser Technology, 2013, 47, 47-55.	2.2	6
431	Influence of Heat Source Size on Phonon Transport in Thin Silicon Film. Transport Theory and Statistical Physics, 2013, 42, 65-84.	0.4	6
432	Non-Equilibrium Heating of a Solid Surface by a Short-Pulse Laser: A Closed-Form Solution Including Thermo-Mechanical Coupling. Journal of Thermal Stresses, 2013, 36, 1308-1321.	1.1	6

#	ARTICLE	IF	CITATIONS
433	Laser Treatment of Sintered Silicon Carbide Surface for Enhanced Hydrophobicity. <i>Jom</i> , 2014, 66, 87-94.	0.9	6
434	Exergy analysis of a thermoelectric power generator: influence of bi-tapered pin geometry on device characteristics. <i>International Journal of Exergy</i> , 2015, 16, 53.	0.2	6
435	Laser short-pulse heating of an aluminum thin film: Energy transfer in electron and lattice sub-systems. <i>Physica B: Condensed Matter</i> , 2015, 470-471, 82-91.	1.3	6
436	Phonon transport characteristics across silicon thin film pair: Presence of a gap between the films. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2015, 40, .	2.4	6
437	Volumetric solar absorption in a channel with presence of phase change material in a carrier fluid. <i>Applied Thermal Engineering</i> , 2016, 102, 1059-1068.	3.0	6
438	Phonon cross-plane transport and thermal boundary resistance: effect of heat source size and thermal boundary resistance on phonon characteristics. <i>Continuum Mechanics and Thermodynamics</i> , 2016, 28, 1373-1393.	1.4	6
439	Effect of Accumulation of Environmental Dust and Subsequent Mud Formation on Textural, Chemical, and Optical Properties of Silicon Wafers for Photovoltaic Cells. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1274-1280.	1.5	6
440	Sol-gel coating of colloidal particles deposited glass surface pertinent to self-cleaning applications. <i>Progress in Organic Coatings</i> , 2019, 127, 202-210.	1.9	6
441	Laser treatment of SiAlON and surface characteristics. <i>Journal of Manufacturing Processes</i> , 2020, 56, 1230-1241.	2.8	6
442	Entropy Generation in the Porous Layer and the Condensate Film. <i>Journal of Enhanced Heat Transfer</i> , 2005, 12, 289-299.	0.5	6
443	Investigation of HVOF thermal sprayed nanostructured WC-12Co mixed with Inconel-625 coatings for oil/gas applications. , 2013, , .		6
444	Laser spot welding and efficiency consideration. <i>Journal of Materials Engineering and Performance</i> , 1997, 6, 766-770.	1.2	5
445	Heat transfer and entropy analysis for a transparent gas flowing in a tube. <i>International Journal of Energy Research</i> , 1999, 23, 1101-1110.	2.2	5
446	Laser heating: an electron-kinetic theory approach and induced thermal stresses. <i>Optics and Lasers in Engineering</i> , 2000, 33, 65-79.	2.0	5
447	Laser Short Pulse Heating and Elastic-Plastic Wave Generation. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 5879-5888.	0.8	5
448	Measurement of laser beam transmittance through laser produced vapour plume. <i>Optical and Quantum Electronics</i> , 2001, 33, 621-640.	1.5	5
449	Laser pulse heating of steel surfaces including impinging gas effect and variable properties. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002, 12, 195-219.	1.6	5
450	Jet impingement onto a cylindrical cavity: consideration of annular nozzle cone angles, and cavity diameter. <i>International Journal of Computational Fluid Dynamics</i> , 2005, 19, 483-492.	0.5	5

#	ARTICLE	IF	CITATIONS
451	Laser short pulse heating: Influence of pulse intensity on temperature and stress fields. Applied Surface Science, 2006, 252, 8428-8437.	3.1	5
452	Entropy generation in a rotating channel. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 291-299.	0.8	5
453	Flow over rectangular porous block in a fixed width channel: influence of porosity and aspect ratio. International Journal of Computational Fluid Dynamics, 2007, 21, 297-305.	0.5	5
454	Laser Cutting of Kevlar and Mild Steel Composite Structure: End Product Quality Assessment. Journal of Materials Engineering and Performance, 2007, 16, 22-29.	1.2	5
455	Laser pulse heating: Cavity formation into steel, nickel and tantalum surfaces. Optics and Laser Technology, 2008, 40, 723-734.	2.2	5
456	Laser gas assisted nitriding of Ti-6Al-4V alloy and residual stress analysis. Surface Engineering, 2009, 25, 228-234.	1.1	5
457	Heat Transfer Enhancement in Microchannel Flow: Presence of Microparticles in a Fluid. , 2010, , .		5
458	Laser bending of steel sheets: corrosion testing of bended sections. Industrial Lubrication and Tribology, 2011, 63, 367-372.	0.6	5
459	Laser Heating and Flow Field Developed in the Melt Pool. Numerical Heat Transfer; Part A: Applications, 2011, 59, 970-987.	1.2	5
460	Laser remelting of alumina tile surfaces: corrosion testing in aqueous solution. Corrosion Engineering Science and Technology, 2011, 46, 477-480.	0.7	5
461	Laser Forming and Welding Processes. Materials Forming, Machining and Tribology, 2013, , .	0.7	5
462	Laser gas assisted treatment of tungsten carbide tile surface. Surface and Coatings Technology, 2013, 236, 315-319.	2.2	5
463	Phonon Transport in Silicon Thin Film: Effect of Temperature Oscillation on Effective Thermal Conductivity. Transport Theory and Statistical Physics, 2013, 42, 179-201.	0.4	5
464	Electrochemical testing of laser treated bronze surface. Journal of Alloys and Compounds, 2013, 563, 180-185.	2.8	5
465	Corrosion resistance of laser treated titanium alloy with B <sub>4</sub> C particles at the surface. International Journal of Materials Research, 2014, 105, 975-982.	0.1	5
466	Laser assisted nitriding of nickel-chromium-based superalloy surface: Heating and diffusion analysis. Journal of Laser Applications, 2015, 27, 022006.	0.8	5
467	Laser cutting of triangular geometry into 2024 aluminum alloy: Influence of triangle size on thermal stress field. Journal of Mechanical Science and Technology, 2015, 29, 3239-3248.	0.7	5
468	Laser treatment of aluminum composite and investigation of thermal stress field. International Journal of Advanced Manufacturing Technology, 2016, 86, 3547-3561.	1.5	5

#	ARTICLE	IF	CITATIONS
469	Thermal characteristics of n-octadecane and carbon nanotubes mixture. Applied Thermal Engineering, 2016, 98, 646-655.	3.0	5
470	Texture Analysis of Hydrophobic Polycarbonate and Polydimethylsiloxane Surfaces via Persistent Homology. Coatings, 2017, 7, 139.	1.2	5
471	Laser gas assisted nitriding and characterization of tungsten surface. Optics and Laser Technology, 2018, 107, 274-280.	2.2	5
472	Why environmental dust influences solar energy harvesting. International Journal of Energy Research, 2019, 43, 4-8.	2.2	5
473	Why self-cleaning is important for solar thermal receivers?. International Journal of Energy Research, 2019, 43, 616-620.	2.2	5
474	Methods for the Determination of Nanofluid Optical Properties: A Review. International Journal of Thermophysics, 2021, 42, 1.	1.0	5
475	On the Mechanism of Human Saliva Interaction with Environmental Dust in Relation to Spreading of Viruses. Langmuir, 2021, 37, 4714-4726.	1.6	5
476	Solution Crystallization of Polycarbonate Surfaces for Hydrophobic State: Water Droplet Dynamics and Life Cycle Assessment towards Self-Cleaning Applications. Polymers, 2021, 13, 1449.	2.0	5
477	A novel approach for volumetric solar receiver performance assessments. Applied Thermal Engineering, 2022, 211, 118487.	3.0	5
478	Numerical approach to pulsed laser heating of semi-infinite aluminum substance. Heat and Mass Transfer, 1996, 31, 279-282.	1.2	4
479	Investigation into some tribological properties of plasma nitrided hot-worked tool steel AISI H11. Journal of Materials Engineering and Performance, 1996, 5, 220-224.	1.2	4
480	A Laser Successive Pulse Heating of a Moving Slab: Akinetic Theory Approach. Japanese Journal of Applied Physics, 1998, 37, 1855-1864.	0.8	4
481	Three-dimensional kinetic theory approach for laser pulse heating. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1999, 213, 491-506.	1.1	4
482	Formulation of surface temperature for laser evaporative pulse heating: The time exponentially decaying pulse case. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2002, 216, 289-299.	1.1	4
483	TEMPERATURE AND STRESS FIELDS IN SILVER DUE TO LASER PICOSECOND HEATING PULSE. Numerical Heat Transfer; Part A: Applications, 2002, 42, 623-646.	1.2	4
484	Entropy generation in non-Newtonian fluid flow in a slider bearing. Sadhana - Academy Proceedings in Engineering Sciences, 2004, 29, 629-640.	0.8	4
485	LASER HEATING AND THERMAL STRESSES TIME EXPONENTIALLY HEATING PULSE CASE. Transactions of the Canadian Society for Mechanical Engineering, 2006, 30, 113-142.	0.3	4
486	Thermal stress analysis in annular duct resembling gas turbine transition piece. Journal of Materials Processing Technology, 2006, 171, 285-294.	3.1	4

#	ARTICLE	IF	CITATIONS
487	Entropy generation in flow field subjected to a porous block in a vertical channel. Transport in Porous Media, 2008, 72, 179-197.	1.2	4
488	Laser melting of HVOF coating: Effect of base material on residual stress formation. Surface Engineering, 2009, 25, 249-256.	1.1	4
489	Laser heating of moving solid: Influence of workpiece speed on melt size. AICHE Journal, 2010, 56, 2997-3004.	1.8	4
490	Jet impingement onto a laser produced kerf. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 754-778.	1.6	4
491	Laser melting of alumina-coated steel. AICHE Journal, 2011, 57, 2547-2554.	1.8	4
492	Laser short pulse heating of metal nano-wires. Physica B: Condensed Matter, 2012, 407, 4473-4477.	1.3	4
493	LASER CUTTING OF LARGE DIAMETER HOLES INTO ALUMINUM FOAM. Machining Science and Technology, 2013, 17, 524-544.	1.4	4
494	Short-pulse heating and analytical solution to non-equilibrium heating process. Physica B: Condensed Matter, 2013, 417, 28-32.	1.3	4
495	Jet impinging onto a laser drilled tapered hole: Influence of taper location on heat transfer and skin friction at hole surface. Optics and Laser Technology, 2013, 45, 236-245.	2.2	4
496	Jet impingement onto kerf: Effect of kerf wedge angle on heat transfer rates and skin friction. Optics and Laser Technology, 2014, 56, 76-87.	2.2	4
497	Flow and heat transfer characteristics of assisting gas impinging onto an alumina coated hole in relation to laser drilling. Optics and Laser Technology, 2014, 59, 123-130.	2.2	4
498	Laser cutting of 2024 aluminium alloy and cutting quality assessment. Advances in Materials and Processing Technologies, 2015, 1, 164-171.	0.8	4
499	Thermal Characteristics of an Aluminum Thin Film due to Temperature Disturbance at Film Edges. International Journal of Thermophysics, 2015, 36, 157-182.	1.0	4
500	Latent Heat Thermal Energy Storage: Effect of Metallic Mesh Size on Storage Time and Capacity. International Journal of Thermophysics, 2015, 36, 2985-3000.	1.0	4
501	Design of a mobile thermal battery and analysis of thermal characteristics. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	4
502	A mobile thermal battery and thermal energy storage enhancement. Numerical Heat Transfer; Part A: Applications, 2016, 69, 1297-1309.	1.2	4
503	Thermal transport across a pair of thin silicon films with the presence of minute vacuum gap: effect of film thickness on thermal characteristics. Canadian Journal of Physics, 2016, 94, 933-944.	0.4	4
504	Laser machining of different diameter holes in alumina ceramic: Thermal stress analysis. Machining Science and Technology, 2016, 20, 349-367.	1.4	4

#	ARTICLE	IF	CITATIONS
505	Laser surface treatment of aluminum composite: surface characteristics. Science and Engineering of Composite Materials, 2016, 23, 495-503.	0.6	4
506	Laser treatment of a neodymium magnet and analysis of surface characteristics. Optics and Laser Technology, 2016, 82, 191-198.	2.2	4
507	Phonon Transport in Curved Thin Film: Effect of Film Curvature and Radius on Transport Characteristics. Journal of Computational and Theoretical Transport, 2017, 46, 283-306.	0.3	4
508	3.7 HVOF Coating of Nickel Based Alloys: Surface and Mechanical Characteristics. , 2017, , 96-110.		4
509	Droplet Heat Transfer on Micropost Arrays With Hydrophobic and Hydrophilic Characteristics. Journal of Heat Transfer, 2018, 140, .	1.2	4
510	Effect of environmental dust particles on laser textured yttria-stabilized zirconia surface in humid air ambient. Optics and Laser Technology, 2018, 101, 388-396.	2.2	4
511	Heat transfer and internal fluidity a droplet located in between parallel hydrophobic surfaces with varying spacing. International Journal of Heat and Fluid Flow, 2018, 73, 1-15.	1.1	4
512	Laser Cutting of Holes in Inconel 803 Alloy and Analysis of Thermal Stress Field. Machining Science and Technology, 2019, 23, 95-117.	1.4	4
513	Laser fabricated tungsten oxide surface for solar energy harvesting and dust effects. Solar Energy Materials and Solar Cells, 2019, 191, 190-198.	3.0	4
514	Environmental dust repelling from hydrophilic/hydrophobic surfaces under sonic excitations. Scientific Reports, 2020, 10, 19348.	1.6	4
515	Heating Enhancement of a Droplet on a Superhydrophobic Surface. Scientific Reports, 2020, 10, 4594.	1.6	4
516	A novel method for dust mitigation from PV cell surfaces. Solar Energy, 2021, 225, 708-717.	2.9	4
517	Water droplet can mitigate dust from hydrophobized micro-post array surfaces. Scientific Reports, 2021, 11, 18361.	1.6	4
518	Sliding and Rolling Motion of a Ferro-Liquid Droplet on the Hydrophobic Surface under Magnetic Influence. Langmuir, 2022, 38, 3925-3935.	1.6	4
519	Investigation into nitrided spur gears. Journal of Materials Engineering and Performance, 1996, 5, 728-733.	1.2	3
520	Simulation of elastic displacement of surface during laser short pulse heating of gold. Optical and Quantum Electronics, 2001, 33, 1241-1258.	1.5	3
521	Elastic displacement of the surface due to a laser heating pulse. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 1271-1282.	1.1	3
522	Thermal Stresses Owing to Convective Heating at Surface. Surface Engineering, 2002, 18, 202-207.	1.1	3

#	ARTICLE	IF	CITATIONS
523	Study into thermal stresses due to turbulent flow in pipes. Heat and Mass Transfer, 2004, 40, 191-202.	1.2	3
524	Entropy generation due to laser step input pulse heating. Heat and Mass Transfer, 2004, 40, 973-980.	1.2	3
525	Laser short-pulse heating with time-varying intensity and thermal stress development in the lattice subsystem. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2005, 219, 73-81.	1.1	3
526	Entropy Analysis Due to Temperature and Stress Fields in the Solid Irradiated by a Time Exponentially Varying Laser Pulse. Heat Transfer Engineering, 2005, 26, 80-89.	1.2	3
527	Entropy generation in laser heating in relation to machining. Heat and Mass Transfer, 2007, 44, 331-341.	1.2	3
528	Temperature Distribution in Silicon-Aluminum Thin Films with Presence of Thermal Boundary Resistance. Transport Theory and Statistical Physics, 2011, 40, 153-181.	0.4	3
529	The effect of laser pulse frequency on the microstructure and morphology of duplex treated Ti-6Al-4V alloy. Surface and Coatings Technology, 2011, 205, 3073-3079.	2.2	3
530	Laser gas-assisted nitriding of Ti implant. Industrial Lubrication and Tribology, 2011, 63, 293-302.	0.6	3
531	Nonequilibrium Heating and Thermal Stress Development. Journal of Thermophysics and Heat Transfer, 2012, 26, 644-650.	0.9	3
532	LASER STRAIGHT CUTTING BRONZE SHEETS: THERMAL STRESS ANALYSIS AND EXPERIMENT. Machining Science and Technology, 2012, 16, 20-39.	1.4	3
533	Analytical solution to laser short-pulse heating of microsized metal wire: volumetric and surface heat source considerations. Canadian Journal of Physics, 2012, 90, 911-918.	0.4	3
534	Analytical solution for non-equilibrium heating of metallic surface: Volumetric and surface heat source considerations. Journal of Non-Equilibrium Thermodynamics, 2013, .	2.4	3
535	Electrochemical investigation of the effect of different laser surface treatments on Hastelloy G alloy. International Journal of Materials Research, 2013, 104, 1007-1012.	0.1	3
536	Laser surface treatment of high-speed tool steel (AISI M2). Surface and Interface Analysis, 2013, 45, 1008-1013.	0.8	3
537	Laser Heating and the Phase Change Process. , 2014, , 5-24.		3
538	Study of comparative effectiveness of thermally stable nanoparticles on high temperature deformability of wrought AZ31 alloy. Journal of Materials Research, 2014, 29, 1264-1269.	1.2	3
539	Single- and Two-Layer Coatings of Metal Blends onto Carbon Steel: Mechanical, Wear, and Friction Characterizations. Jom, 2014, 66, 37-45.	0.9	3
540	Environmental mud adhesion on optical glass surface: Effect of mud drying temperature on surface properties. Solar Energy, 2017, 150, 73-82.	2.9	3



#	ARTICLE	IF	CITATIONS
541	A new dimension in self-cleaning of solar energy harvesting devices. International Journal of Energy Research, 2017, 41, 1944-1947.	2.2	3
542	Novel Analytical Approach for Solution of Radiative Transport Equation in Thin Films. Journal of Thermophysics and Heat Transfer, 2018, 32, 1104-1108.	0.9	3
543	Mobility of A Water Droplet on Liquid Phase of N-Octadecane Coated Hydrophobic Surface. Scientific Reports, 2018, 8, 15060.	1.6	3
544	2.28 Anti-Corrosive Materials. , 2018, , 913-943.		3
545	Ferro-Liquid Droplet Heat Transfer on Water Surface: Effect of Droplet Volume on Droplet Fluidity. Journal of Thermophysics and Heat Transfer, 2018, 32, 1072-1087.	0.9	3
546	A New Approach for Semi-Analytical Solution of Cross-plane Phonon Transport in Siliconâ€Diamond Thin Films. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 359-372.	2.4	3
547	Microscale Thermal Energy Transfer Over a Combined System of Thin Films: Analytical Approach. Journal of Computational and Theoretical Transport, 2019, 48, 89-108.	0.3	3
548	Stretchable hydrophobic surfaces and droplet heating. International Journal of Heat and Fluid Flow, 2019, 78, 108435.	1.1	3
549	Hydrophobized metallic meshes can ease water droplet rolling. Soft Matter, 2021, 17, 7311-7321.	1.2	3
550	Sliding Dynamics of a Water Droplet on Silicon Oil Film Surface. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	3
551	Droplet Rolling Dynamics over a Hydrophobic Surface with a Minute Width Channel. Langmuir, 2021, 37, 7851-7861.	1.6	3
552	A microchannel flow with presence of micro-post arrays on channel top wall. International Journal of Thermal Sciences, 2021, 164, 106883.	2.6	3
553	On the mechanism of droplet rolling and spinning in inclined hydrophobic plates in wedge with different wetting states. Scientific Reports, 2021, 11, 15086.	1.6	3
554	Localized droplet heating by hydrophobic pins: Influence of pin area and droplet size on heat transfer. Case Studies in Thermal Engineering, 2021, 27, 101261.	2.8	3
555	Liquid Droplet Impact Over Hydrophobic Mesh Surfaces and Assessment of Weber Number Dependent Characteristics. Journal of Fluids Engineering, Transactions of the ASME, 2022, , .	0.8	3
556	Laser shortpulse heating: determination of lagging time due to different pulse parameters. International Communications in Heat and Mass Transfer, 2001, 28, 815-822.	2.9	2
557	Gas-assisted laser single-pulse heating: Study of thermal stresses. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 291-306.	1.1	2
558	Flexural motion in laser evaporative heated cantilever workpiece: Three-dimensional analysis. Optical and Quantum Electronics, 2003, 35, 111-128.	1.5	2



#	ARTICLE	IF	CITATIONS
559	Laser shortpulse heatingâ€™variable properties case. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 87-102.	1.2	2
560	An approach for analytical solution pertinent to lattice temperature variation due to laser short-pulse heating. Heat and Mass Transfer, 2006, 42, 1111-1117.	1.2	2
561	Effect of surface modification of Tiâ€™6Alâ€™4V by laser and duplex treatment on selective dissolution of aluminium. Corrosion Engineering Science and Technology, 2006, 41, 304-309.	0.7	2
562	Jet emerging from an annular nozzle and impinging onto cylindrical cavity: Effect of jet velocity on flow structure and heat transfer rates. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 1021-1031.	1.1	2
563	Performance of Al-6063 Primary and Secondary Billets Used in Hot Aluminum Extrusion. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	1.3	2
564	Flow emerging from annular-conical nozzle combinations and impinging onto a cylindrical cavity. International Journal of Thermal Sciences, 2009, 48, 975-984.	2.6	2
565	Entropy generation in the flow system generated in between two parallel plates due to bivertical motion of the top plate. Sadhana - Academy Proceedings in Engineering Sciences, 2009, 34, 455-466.	0.8	2
566	Laser treatment of carbon film coated steel surface. Surface Engineering, 2012, 28, 57-67.	1.1	2
567	Laser Nitriding of Titanium Alloy and Fracture Toughness Measurement of Resulting Surface. Advanced Materials Research, 0, 445, 615-620.	0.3	2
568	Laser Short-Pulse Heating. , 2012, , 251-293.		2
569	Laser treatment of A286 superalloy: corrosion resistance of the treated surface. Surface and Interface Analysis, 2012, 44, 1364-1369.	0.8	2
570	Thermal Analysis of Laser Drilling Process. SpringerBriefs in Applied Sciences and Technology, 2013, , 5-50.	0.2	2
571	Effect of coating material on heat transfer and skin friction due to impinging jet onto a laser producedhole. Optics and Laser Technology, 2013, 49, 243-250.	2.2	2
572	Laser controlled melting of Hastelloy X alloy with presence of B<sub>4</sub>C particles at surface. Materials Science and Technology, 2013, 29, 1441-1446.	0.8	2
573	Influence of Assisting Gas Type on the Nusselt Number and the Skin Friction on Slots in Relation to Laser Cutting. Heat Transfer Engineering, 2013, 34, 852-862.	1.2	2
574	Thermal stress analysis and entropy generation rate due to laser short pulse heating of a metallic surface. Canadian Journal of Physics, 2014, 92, 1681-1687.	0.4	2
575	Laser Duplex Treatment of Surfaces for Improved Properties. , 2014, , 279-305.		2
576	Laser treatment of boron carbide surfaces: Metallurgical and morphological examinations. Journal of Alloys and Compounds, 2014, 603, 125-131.	2.8	2

#	ARTICLE	IF	CITATIONS
577	Nonequilibrium cross-plane energy transport in aluminum-silicon-aluminum wafer. International Journal of Modern Physics B, 2015, 29, 1550112.	1.0	2
578	Phonon Transport in a Silicon Film with Presence of an Aluminum Dot in the Film. Journal of Computational and Theoretical Transport, 2015, 44, 254-279.	0.3	2
579	Transient Effects of Temperature Disturbance on Phonon Characteristics in Thin Diamond Film. Journal of Computational and Theoretical Transport, 2015, 44, 119-140.	0.3	2
580	Thermal characteristics of a skutterudite thermoelectric generator: influence of device pin length on efficiency and output power. International Journal of Exergy, 2016, 20, 343.	0.2	2
581	Non-equilibrium energy transport and entropy production due to laser short-pulse irradiation. Canadian Journal of Physics, 2016, 94, 130-138.	0.4	2
582	Phonon transport across multi-layered structure subjected to laser short irradiation pulse. Optical and Quantum Electronics, 2017, 49, 1.	1.5	2
583	3.11 Gas Nitriding of H13 Tool Steel Used for Extrusion Dies: Numerical and Experimental Investigation. , 2017, , 158-177.		2
584	A mobile thermal battery resembling a solar receiver: Innovative design and performance assessment. International Journal of Energy Research, 2018, 42, 2766-2780.	2.2	2
585	Some applications of laser cutting. , 2018, , 205-297.		2
586	Semi-Analytical Solution of Equation for Phonon Radiative Transport Pertinent to Thin Films. Journal of Thermophysics and Heat Transfer, 2018, 32, 316-325.	0.9	2
587	Innovative Design of a Thermal Battery: Influence of Carbon Nanotubes Concentration on Thermal Storage Characteristics. International Journal of Thermophysics, 2018, 39, 1.	1.0	2
588	Microscale Thermal Energy Transfer Between Thin Films with Vacuum Gap at Interface. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 123-142.	2.4	2
589	Wetting Characteristics of Surfaces. , 2019, , 11-44.		2
590	Application of Water Droplet for Self-Cleaning of Surfaces. , 2019, , 375-421.		2
591	Heat-Transfer Enhancement Incorporating Fin-Like Structures Inside Droplet on Hydrophobic Surface. Journal of Heat Transfer, 2019, 141, .	1.2	2
592	Carbonated water droplets on a dusty hydrophobic surface. Soft Matter, 2020, 16, 7144-7155.	1.2	2
593	Environmental dust repelling from hydrophobic and hydrophilic surfaces under vibrational excitation. Scientific Reports, 2020, 10, 14346.	1.6	2
594	Dust mitigation from inclined hydrophobic and hydrophilic surfaces under electrostatic repulsion. Journal of Electrostatics, 2021, 109, 103536.	1.0	2

#	ARTICLE	IF	CITATIONS
595	Wetting state of 3D printed Ti-6Al-4V alloy surface. <i>Advances in Materials and Processing Technologies</i> , 0, , 1-11.	0.8	2
596	Avalanche effect for chemically modified dust mitigation from surfaces. <i>Scientific Reports</i> , 2021, 11, 817.	1.6	2
597	A Water Droplet Impact on a Hydrophobic Soft Surface. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	2
598	Three-Dimensional Ballistic-Diffusive Heat Transport in Silicon: Transient Response and Thermal Conductivity. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020, 45, 431-441.	2.4	2
599	HEAT TRANSFER ACROSS SILICON-ALUMINUM-SILICON THIN FILMS DUE TO ULTRA-SHORT LASER PULSE IRRADIATION. <i>Journal of Enhanced Heat Transfer</i> , 2012, 19, 259-270.	0.5	2
600	Droplet motion on sonically excited hydrophobic meshes. <i>Scientific Reports</i> , 2022, 12, 6759.	1.6	2
601	Laser surface processing of Ti6Al4V alloy precoated with hard particles. <i>Optics and Laser Technology</i> , 2022, 153, 108277.	2.2	2
602	Numerical investigation of turbulent flow across a $\text{SiC}$ ceramic foam. <i>International Journal of Energy Research</i> , 0, , .	2.2	2
603	A Study of Laser Melting and Rapid Solidification of an $\text{NbAl}_{3}$ Alloy. <i>Materials and Manufacturing Processes</i> , 1995, 10, 1227-1240.	2.7	1
604	Active Cooling of a Hypersonic Plane Using Hydrogen, Methane, Oxygen and Fluorine. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 1996, 210, 9-17.	0.7	1
605	Laser melting of Ti-15Al-20Nb alloy. <i>Journal of Materials Engineering and Performance</i> , 1996, 5, 124-128.	1.2	1
606	Experimental Study into Droplet Formation in Steam Flows. <i>Flow, Turbulence and Combustion</i> , 1997, 59, 1-9.	0.2	1
607	Investigation Into Thermoelastic Displacement of Surfaces Subjected to Gas Assisted Laser Repetitive Pulse Heating. <i>Surface Engineering</i> , 2002, 18, 37-45.	1.1	1
608	Laser Evaporative Heating: Influence of Laser Pulse Intensity on the Cavity Formation. <i>Heat Transfer Engineering</i> , 2008, 29, 328-339.	1.2	1
609	Entropy generation in a channel resembling gas turbine cooling passage: Effect of rotation number and density ratio on entropy generation. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2009, 34, 439-454.	0.8	1
610	Laser short-pulse heating of metallic surface: Consideration of Seebeck effect. <i>Current Applied Physics</i> , 2009, 9, 496-504.	1.1	1
611	Improved formulation of electron kinetic theory approach for laser shortpulse heating: Thermal stress consideration. <i>Current Applied Physics</i> , 2009, 9, 1423-1433.	1.1	1
612	Jet Emerging from a Nozzle and Impinging on a Conical Cavity: Influence of Nozzle and Cavity Geometric Configurations. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 61, 142-162.	1.2	1

#	ARTICLE	IF	CITATIONS
613	Laser surface treatment of high-speed steel: presence of TiC particles at the surface. Surface and Interface Analysis, 2012, 44, 150-155.	0.8	1
614	Short-Pulse Laser Heating and Incorporating Thermomechanical Coupling: Closed Form. Journal of Thermophysics and Heat Transfer, 2014, 28, 142-149.	0.9	1
615	Laser Drilling and Efficiency Analysis. , 2014, , 195-202.		1
616	Assisted nitriding of Inconel alloy: microstructural analysis. International Journal of Surface Science and Engineering, 2014, 8, 282.	0.4	1
617	Laser treatment of high strength low alloy steel and electrochemical response of the surface. Industrial Lubrication and Tribology, 2015, 67, 166-171.	0.6	1
618	Thermal Analysis of Mobile Thermal Battery with Aluminum Mesh Subjected to Solar-Concentrated Heating. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	1
619	1.12 Laser Machining Processes. , 2017, , 344-363.		1
620	2.5 Laser Beam Processing for Surface Modifications. , 2017, , 137-153.		1
621	Thermal analysis of the laser cutting process. , 2018, , 5-51.		1
622	Phonon Radiative Transfer in Curvilinear Coordinate Systems. , 2018, , 377-399.		1
623	Crossplane Phonon Transport and Thermal Boundary Resistance Across Thin Films Pair. Journal of Thermophysics and Heat Transfer, 2019, 33, 139-153.	0.9	1
624	Thermal Assessment of Selective Solar Troughs. Energies, 2019, 12, 3130.	1.6	1
625	Phonon transfer in silicon-diamond films: Influence of thermal boundary resistance on acoustic phonon intensities. Physica B: Condensed Matter, 2019, 556, 82-96.	1.3	1
626	Additive manufacturing of Ti-alloy: Thermal analysis and assessment of properties. Advances in Mechanical Engineering, 2020, 12, 168781402093306.	0.8	1
627	Influence of Hydrophobic Fin Configuration in Thermal System in Relation to Electronic Device Cooling Applications. Energies, 2020, 13, 1631.	1.6	1
628	Thermal Stress Development in Low Dimensional Silicon Film: An Analytical Approach. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 205-219.	2.4	1
629	Entropy Generation Rate for Stationary Ballistic-Diffusive Heat Conduction in a Rectangular Flake. Journal of Computational and Theoretical Transport, 2021, 50, 87-101.	0.3	1
630	Impacting Water Droplets Can Alleviate Dust from Slanted Hydrophobic Surfaces. Langmuir, 2021, 37, 4355-4369.	1.6	1

#	ARTICLE	IF	CITATIONS
631	Thermal conductivity assessment in a low dimension structure. International Communications in Heat and Mass Transfer, 2021, 127, 105581.	2.9	1
632	Development of a new drying correlation for practical applications. International Journal of Energy Research, 2002, 26, 245.	2.2	1
633	Heating Analysis of a Water Droplet in Between Multi-Wall Hydrophobic Surfaces. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	1
634	Transient, Sub-Continuum, Heat Conduction in Irregular Geometries. Journal of Non-Equilibrium Thermodynamics, 2022, 47, 111-119.	2.4	1
635	Nanowall Textured Hydrophobic Surfaces and Liquid Droplet Impact. Materials, 2022, 15, 1645.	1.3	1
636	Effect of Post Processes on Mechanical Properties of 3D Printed Ti6Al4V Gears. Journal of Materials Engineering and Performance, 2022, 31, 6300-6309.	1.2	1
637	Microchannel flow and heat transfer enhancement via ribs arrangements. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210800.	1.4	1
638	Investigation of Spatter Trajectories in an SLM Build Chamber under Argon Gas Flow. Metals, 2022, 12, 343.	1.0	1
639	Techno-economic analysis of nitrogen-doped graphene/water nanofluid in various heat exchangers (A) Tj ETQq1 1 0.784314 rgBT /Ove and Energy, 2022, 236, 760-775.	0.8	1
640	Study into a Small-Scale Water-Driven Domestic Heat Pump: Design and Performance Analysis. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1996, 18, 951-963.	0.5	0
641	Investigation into first and second law efficiencies of solid state laser head: A case study. Journal of Laser Applications, 1997, 9, 215-220.	0.8	0
642	The Corrosion Behavior of TiN Coated and Uncoated Incoloy 800 Alloy. Journal of Materials Engineering and Performance, 1998, 7, 812-816.	1.2	0
643	Laser shortpulse heating of a gold-chromium-gold multilayer assembly. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2003, 217, 797-809.	1.1	0
644	Transient Helium Jet Expansion Into Stagnant Air in Relation to Laser Drilling. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2005, 219, 667-683.	1.1	0
645	Laser short-pulse heating: A theoretical analysis of electron excess energy dissipation in the early heating period. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 95-102.	1.1	0
646	Laser-Pulsed Heating of Aluminum: Cavity Formation at the Surface. Journal of Materials Engineering and Performance, 2008, 17, 920-927.	1.2	0
647	Opposing steady and transiently developing jets in relation to laser machining. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 967-985.	1.1	0
648	Flow impinging onto a conical cavity: A conical and annular nozzle combination. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 2583-2593.	1.1	0

#	ARTICLE	IF	CITATIONS
649	Study into laser short-pulse heating of a layered structure. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 1099-1111.	1.1	0
650	Experimental Investigation of Laser-Drilled Holes Variations Depending on Laser Drilling Parameters. Advanced Materials Research, 0, 445, 448-453.	0.3	0
651	Thermal Stress Analysis. , 2012, , 163-250.		0
652	Nonconduction-Limited Pulsed Laser Heating. , 2012, , 53-123.		0
653	Laser Cutting Process. , 2012, , 125-161.		0
654	Analytical solution for laser short-pulse heating of two-dimensional solids: volumetric and surface heat source considerations. Canadian Journal of Physics, 2013, 91, 522-529.	0.4	0
655	Conduction Heating of Solid Surfaces. Materials Forming, Machining and Tribology, 2013, , 5-28.	0.7	0
656	CO2 Laser Cutting of Triangular Geometry in Aluminum Foam. , 2013, , 97-110.		0
657	Investigation into Flow Field in Relation to Laser Gas Assisted Processing: Influence of Assisting Gas Velocity on the Flow Field. Numerical Heat Transfer; Part A: Applications, 2014, 65, 556-583.	1.2	0
658	Micro/Nano Scale Energy Transport in Metallic Films and Stress Analysis. , 2014, , 3-19.		0
659	Thermal Stresses in Micro- and Nanostructures. , 2014, , 21-47.		0
660	HVOF Coating and Characterization. Materials Forming, Machining and Tribology, 2014, , 103-156.	0.7	0
661	Effect of temperature oscillation on thermal characteristics of an aluminum thin film. Applied Physics A: Materials Science and Processing, 2014, 117, 2143-2158.	1.1	0
662	Material, Mechanical, and Tribological Characterization of Laser-Treated Surfaces. Journal of Thermal Spray Technology, 2014, 23, 1210-1224.	1.6	0
663	Phonon Transport in a Thin Film due to Temperature Oscillation at the Film Edge. International Journal of Nonlinear Sciences and Numerical Simulation, 2015, 16, 315-324.	0.4	0
664	Effect of Film Thickness on Energy Transport Characteristics in Aluminum Thin Film. Journal of Thermophysics and Heat Transfer, 2015, 29, 711-724.	0.9	0
665	Energy transport across thin silicon-diamond films pair with minute vacuum gap at the interface. Optical and Quantum Electronics, 2015, 47, 2821-2841.	1.5	0
666	Coatings of nanocrystalline metallic wires on steel substrate: mechanical characteristics of coating layer. Canadian Metallurgical Quarterly, 2016, 55, 295-302.	0.4	0

#	ARTICLE	IF	CITATIONS
667	Thermal Characteristics and Phonon Transport in Diamond and Silicon Thin Films. Journal of Thermophysics and Heat Transfer, 2017, 31, 56-68.	0.9	0
668	Laser gas assisted treatment of steel 309: Corrosion and scratch resistance of treated surface. Optics and Laser Technology, 2017, 95, 157-164.	2.2	0
669	3.5 Laser Texturing of Materials and Surface Hydrophobicity. , 2017, , 71-85.		0
670	Analytical methods in laser cutting. , 2018, , 53-147.		0
671	Laser cutting quality assessment and numerical methods for modeling of cutting. , 2018, , 149-203.		0
672	A role of lasers in energy materials and future perspectives. International Journal of Energy Research, 2018, 42, 325-328.	2.2	0
673	Thermal Disturbance of Thin Films Pair: Cross-Plane Thermal Energy Transfer. Journal of Computational and Theoretical Transport, 2018, 47, 152-186.	0.3	0
674	Heat Transfer Applications in One- and Two-Dimensional Thin Films. , 2018, , 225-306.		0
675	2.25 Hydrophobic Materials. , 2018, , 796-831.		0
676	2.26 Dust Repellent Materials. , 2018, , 832-880.		0
677	Analysis of Energy Transport Equations at Micro/Nanoscales. , 2018, , 75-180.		0
678	Analytical Treatment of Phonon Transport in Thin Films. , 2018, , 181-224.		0
679	Thermal Boundary Resistance for Cross-Plane Transport and the Presence of Minute Vacuum Gap at Interface. , 2018, , 307-375.		0
680	Pulsative heating of silicon thin film resembling laser pulses. Optics and Laser Technology, 2018, 108, 502-509.	2.2	0
681	Environmental Dust on Surfaces. , 2019, , 99-132.		0
682	Water-Droplet Dynamics and Heat Transfer. , 2019, , 133-284.		0
683	Dust Effects on Surfaces in Humid Environment and Applications. , 2019, , 285-374.		0
684	Thermal and Flow Behavior of a Droplet Fluid Wetted by Parallel Hydrophobic Walls. International Journal of Thermophysics, 2019, 40, 1.	1.0	0



#	ARTICLE	IF	CITATIONS
685	Entropy analysis for thermally disturbed thin films. International Journal of Exergy, 2019, 30, 86.	0.2	0
686	Thermal Energy Transport Across Combined Films: Thermal Characteristics. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 439-453.	2.4	0
687	Heat Transfer and Flow Characteristics Inside Droplet Formed on Water Surface. Heat Transfer Engineering, 2020, 41, 961-981.	1.2	0
688	Heating of a water droplet on inclined transparent polydimethylsiloxane (PDMS) surface. Heat and Mass Transfer, 2020, 56, 1503-1522.	1.2	0
689	Thermally excited quantum dot and energy transfer in thin films. Physica B: Condensed Matter, 2020, 595, 412346.	1.3	0
690	Heating analysis of a droplet on stretchable hydrophilic surface. International Journal of Heat and Fluid Flow, 2020, 85, 108659.	1.1	0
691	Droplet stretching between hydrophobic and hydrophilic plates: Droplet fluid heating. International Communications in Heat and Mass Transfer, 2021, 120, 105010.	2.9	0
692	Sliding Water Droplet on Oil Impregnated Surface and Dust Particle Mitigation. Molecules, 2021, 26, 789.	1.7	0
693	Estimating Entropy Generation Rate for Ballistic-Diffusive Phonon Transport Using Effective Thermal Conductivity. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 321-327.	2.4	0
694	Impact Characteristics of a Carbonated Water Droplet on Hydrophobic Surface. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	0
695	Practical Applications of Laser Surface Treatment. Materials Forming, Machining and Tribology, 2013, , 111-138.	0.7	0
696	Experimental Analysis for Laser Forming and Welding. Materials Forming, Machining and Tribology, 2013, , 85-106.	0.7	0
697	Analytical Treatment of Laser Forming and Welding Processes. Materials Forming, Machining and Tribology, 2013, , 5-38.	0.7	0
698	Laser Melting of Solid Surfaces. Materials Forming, Machining and Tribology, 2013, , 29-58.	0.7	0
699	Numerical Analysis for Laser Forming and Welding. Materials Forming, Machining and Tribology, 2013, , 39-84.	0.7	0
700	Analytical Treatment of Hyperbolic Equations for Stress Analysis. Materials Forming, Machining and Tribology, 2014, , 121-165.	0.7	0
701	Thermal Stress Development in the Solid Due to Laser Pulse Irradiation: Analytical Approaches for Temperature and Stress Fields. , 2014, , 5196-5204.		0
702	Impacting Droplet Can Mitigate Dust from PDMS Micro-Post Array Surfaces. Coatings, 2021, 11, 1377.	1.2	0

#	ARTICLE	IF	CITATIONS
703	Liquid droplet impact on a sonically excited thin membrane. <i>Soft Matter</i> , 2022, 18, 1443-1454.	1.2	0
704	Numerical approach to pulsed laser heating of Semi-Infinite Aluminum substance. <i>Heat and Mass Transfer</i> , 1996, 31, 279-282.	1.2	0