

Abul Fazal Muhammad Arif

List of Publications by Year in descending order

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176
papers

2,671
citations

236612

25
h-index

276539

41
g-index

179
all docs

179
docs citations

179
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional thermal modeling of a photovoltaic module under varying conditions. <i>Solar Energy</i> , 2012, 86, 2620-2631.	2.9	141
2	On the feasibility of community-scale photovoltaic-powered reverse osmosis desalination systems for remote locations. <i>Renewable Energy</i> , 2011, 36, 3246-3256.	4.3	108
3	Laser welding of low carbon steel and thermal stress analysis. <i>Optics and Laser Technology</i> , 2010, 42, 760-768.	2.2	86
4	Electrical, thermal and structural performance of a cooled PV module: Transient analysis using a multiphysics model. <i>Applied Energy</i> , 2013, 112, 300-312.	5.1	85
5	A study of die failure mechanisms in aluminum extrusion. <i>Journal of Materials Processing Technology</i> , 2003, 134, 318-328.	3.1	81
6	Numerical prediction of plastic deformation and residual stresses induced by laser shock processing. <i>Journal of Materials Processing Technology</i> , 2003, 136, 120-138.	3.1	81
7	Performance and life prediction model for photovoltaic modules: Effect of encapsulant constitutive behavior. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 75-87.	3.0	64
8	Laser-shock processing of steel. <i>Journal of Materials Processing Technology</i> , 2003, 135, 6-17.	3.1	62
9	An improved electric circuit model for photovoltaic modules based on sensitivity analysis. <i>Solar Energy</i> , 2013, 90, 29-42.	2.9	56
10	Finite element evaluation of clearance effect on tube-to-tubesheet joint strength. <i>International Journal of Pressure Vessels and Piping</i> , 2003, 80, 879-885.	1.2	54
11	Material response to thermal loading due to short pulse laser heating. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 3787-3798.	2.5	51
12	Evaluation of gas nitriding process with in-process variation of nitriding potential for AISI H13 tool steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 47, 687-698.	1.5	49
13	Phase field modeling of V2O5 hot corrosion kinetics in thermal barrier coatings. <i>Computational Materials Science</i> , 2015, 99, 105-116.	1.4	48
14	Cemented carbide cutting tool: Laser processing and thermal stress analysis. <i>Applied Surface Science</i> , 2007, 253, 5544-5552.	3.1	43
15	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
16	Permeability-Selectivity Analysis of Microfiltration and Ultrafiltration Membranes: Effect of Pore Size and Shape Distribution and Membrane Stretching. <i>Membranes</i> , 2016, 6, 40.	1.4	37
17	A novel heat exchanger design procedure for photovoltaic panel cooling application: An analytical and experimental evaluation. <i>Applied Energy</i> , 2019, 239, 41-56.	5.1	37
18	ANN prediction model for composite plates against low velocity impact loads using finite element analysis. <i>Composite Structures</i> , 2013, 101, 290-300.	3.1	33

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19	Characterization of Nanoreinforcement Dispersion in Inorganic Nanocomposites: A Review. <i>Materials</i> , 2014, 7, 4148-4181.	1.3	33
20	Laser cutting of sharp edge: Thermal stress analysis. <i>Optics and Lasers in Engineering</i> , 2010, 48, 10-19.	2.0	32
21	Roll deformation and stress distribution under thermo-mechanical loading in cold rolling. <i>Journal of Materials Processing Technology</i> , 2004, 147, 255-267.	3.1	30
22	Laser control melting of alumina surfaces and thermal stress analysis. <i>Optics and Laser Technology</i> , 2011, 43, 858-865.	2.2	30
23	Laser cutting of thick sheet metals: Residual stress analysis. <i>Optics and Laser Technology</i> , 2009, 41, 224-232.	2.2	29
24	A new definition of shape complexity for metal extrusion. <i>Journal of Materials Processing Technology</i> , 2004, 155-156, 1734-1739.	3.1	28
25	Laser cutting of holes in thick sheet metals: Development of stress field. <i>Optics and Lasers in Engineering</i> , 2009, 47, 909-916.	2.0	27
26	Development of a ceramic-based composite for direct bonded copper substrate. <i>Ceramics International</i> , 2017, 43, 5236-5246.	2.3	27
27	Modeling Residual Stress Development in Thermal Spray Coatings: Current Status and Way Forward. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1115-1145.	1.6	27
28	Residual stress analysis for hvof diamalloy 1005 coating on Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2007, 202, 559-568.	2.2	26
29	Analysis of Product Defects in a Typical Aluminum Extrusion Facility. <i>Materials and Manufacturing Processes</i> , 2004, 19, 391-405.	2.7	25
30	Laser bending of AISI 304 steel sheets: Thermal stress analysis. <i>Optics and Laser Technology</i> , 2012, 44, 303-309.	2.2	25
31	Laser treatment of aluminum surface: Analysis of thermal stress field in the irradiated region. <i>Journal of Materials Processing Technology</i> , 2009, 209, 77-88.	3.1	24
32	Influence of multiple nitriding on the case hardening of H13 tool steel: experimental and numerical investigation. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 58, 57-70.	1.5	24
33	Investigation of residual stress development in spiral welded pipe. <i>Journal of Materials Processing Technology</i> , 2015, 215, 225-238.	3.1	23
34	VARIATION OF PRESSURE WITH RAM SPEED AND DIE PROFILE IN HOT EXTRUSION OF ALUMINUM-6063. <i>Materials and Manufacturing Processes</i> , 2001, 16, 701-716.	2.7	22
35	Generalized Effective Medium Theory for Particulate Nanocomposite Materials. <i>Materials</i> , 2016, 9, 694.	1.3	22
36	HVOF coating and laser treatment: three-point bending tests. <i>Journal of Materials Processing Technology</i> , 2005, 164-165, 954-957.	3.1	21

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37	Laser gas assisted nitriding of alumina surfaces. <i>Surface Engineering</i> , 2009, 25, 235-240.	1.1	21
38	Thermal Analysis and Optimization of Orthotropic Pin Fins: A Closed-Form Analytical Solution. <i>Journal of Heat Transfer</i> , 2010, 132, .	1.2	21
39	Finite Element Modeling, Analysis, and Life Prediction of Photovoltaic Modules. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014, 136, .	1.1	21
40	The influence of residual stress on the properties and performance of thick TiAlN multilayer coating during dry turning of compacted graphite iron. <i>Wear</i> , 2020, 454-455, 203342.	1.5	21
41	Investigation Into Laser Shock Processing. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 47-54.	1.2	20
42	Design and development of ceramic-based composites with tailored properties for cutting tool inserts. <i>Ceramics International</i> , 2018, 44, 22421-22431.	2.3	20
43	Laser shock processing of aluminium: model and experimental study. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6740-6747.	1.3	19
44	Laser nitriding of tool steel: thermal stress analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 49, 1009-1018.	1.5	19
45	Thermal analysis of orthotropic annular fins with contact resistance: A closed-form analytical solution. <i>Applied Thermal Engineering</i> , 2011, 31, 937-945.	3.0	19
46	Fatigue Failure of Extrusion Dies: Effect of Process Parameters and Design Features on Die Life. <i>Journal of Failure Analysis and Prevention</i> , 2010, 10, 38-49.	0.5	18
47	Regression-based CVNâ€“KIC Models for hot work tool steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 430, 208-215.	2.6	17
48	Impact resistance of composite laminate flat plates â€“ A parametric sensitivity analysis approach. <i>Composite Structures</i> , 2013, 102, 138-147.	3.1	17
49	Use of acoustic emission and cutting force signals to monitor built-up edge formation in stainless steel turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2257-2276.	1.5	17
50	Evolution of internal cracks and residual stress during deposition of TBC. <i>Ceramics International</i> , 2020, 46, 26731-26753.	2.3	17
51	A family of integration algorithms for constitutive equations in finite deformation elasto-viscoplasticity. <i>International Journal for Numerical Methods in Engineering</i> , 1992, 33, 59-84.	1.5	16
52	Monte Carlo simulation of extrusion die life. <i>Journal of Materials Processing Technology</i> , 2008, 202, 96-106.	3.1	16
53	Thermal stress analysis of spiral laser-welded tube. <i>Journal of Materials Processing Technology</i> , 2011, 211, 675-687.	3.1	16
54	Development of Residual Stress during Manufacturing of Spiral Welded Pipes. <i>Materials and Manufacturing Processes</i> , 2012, 27, 738-745.	2.7	16

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55	Performance of open pore metal foam heat sinks fabricated with thermally sprayed interface. Applied Thermal Engineering, 2016, 105, 411-424.	3.0	16
56	A computational and experimental study on the effective properties of Al ₂ O ₃ -Ni composites. International Journal of Applied Ceramic Technology, 2017, 14, 766-778.	1.1	16
57	On the performance of two tangent operators for finite element analysis of large deformation inelastic problems. International Journal for Numerical Methods in Engineering, 1992, 35, 369-389.	1.5	15
58	Influence of Surface Preparation on the Kinetics of Controlled Gas-Nitrided AISI H13 Steels Used in Extrusion Dies. Journal of Materials Engineering and Performance, 2010, 19, 347-355.	1.2	15
59	Laser cutting of steel and thermal stress development. Optics and Laser Technology, 2011, 43, 830-837.	2.2	15
60	3D modeling and analysis of the thermo-mechanical behavior of metal foam heat sinks. International Journal of Thermal Sciences, 2017, 116, 199-213.	2.6	15
61	A probabilistic study of failures of solid and hollow dies in hot aluminum extrusion. Journal of Materials Processing Technology, 2004, 155-156, 1740-1748.	3.1	14
62	THERMAL ANALYSIS OF A COLD ROLLING PROCESS – A NUMERICAL APPROACH. Numerical Heat Transfer; Part A: Applications, 2004, 46, 613-632.	1.2	14
63	Design and development of thermally conductive hybrid nano-composites in polysulfone matrix. Polymer Composites, 2019, 40, 1419-1432.	2.3	14
64	Effects on tool performance of cutting edge prepared by pressurized air wet abrasive jet machining (PAWAJM). Journal of Materials Processing Technology, 2020, 277, 116456.	3.1	14
65	Effect of edge preparation technologies on cutting edge properties and tool performance. International Journal of Advanced Manufacturing Technology, 2020, 106, 1823-1838.	1.5	14
66	Experimental and Computational Analysis of Low-Velocity Impact on Carbon-, Glass- and Mixed-Fiber Composite Plates. Journal of Composites Science, 2020, 4, 148.	1.4	14
67	Influence of secondary carbides on microstructure, wear mechanism, and tool performance for different cermet grades during high-speed dry finish turning of AISI 304 stainless steel. Wear, 2020, 452-453, 203285.	1.5	14
68	Laser gas-assisted nitriding of steel: residual stress analysis. Industrial Lubrication and Tribology, 2010, 62, 214-223.	0.6	13
69	Study of orthotropic pin fin performance through axisymmetric thermal non-dimensional finite element. Applied Thermal Engineering, 2011, 31, 376-384.	3.0	13
70	Splats Formation, Interaction and Residual Stress Evolution in Thermal Spray Coating Using a Hybrid Computational Model. Journal of Thermal Spray Technology, 2019, 28, 359-377.	1.6	13
71	Laser shock processing: modeling of evaporation and pressure field developed in the laser-produced cavity. International Journal of Advanced Manufacturing Technology, 2009, 42, 250-262.	1.5	12
72	The Effect of Clearance and Pre-Tension on the Performance of a Bolted-Joint Using 3D FEA. Arabian Journal for Science and Engineering, 2012, 37, 749-763.	1.1	12

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73	Computational design and development of high-performance polymer-composites as new encapsulant material for concentrated PV modules. <i>Scientific Reports</i> , 2020, 10, 5304.	1.6	12
74	Effect of Extrusion Die Profile on the Uniformity of Nitrided Layers. <i>Materials and Manufacturing Processes</i> , 2009, 24, 619-625.	2.7	11
75	Laser Cutting of Rectangular Blanks in Thick Sheet Steel: Effect of Cutting Speed on Thermal Stresses. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 177-184.	1.2	11
76	Fatigue life prediction of adhesive joint in heat sink using Monte Carlo method. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 164-175.	1.4	11
77	Wear of form taps in threading of Al-Si alloy parts: Mechanisms and measurements. <i>Wear</i> , 2020, 442-443, 203153.	1.5	11
78	A hybrid computational approach for modeling thermal spray deposition. <i>Surface and Coatings Technology</i> , 2019, 362, 311-327.	2.2	10
79	Investigation on wear mechanisms of PVD coatings for form taps in threading of Al-Si alloy. <i>Wear</i> , 2021, 464-465, 203528.	1.5	10
80	A comprehensive review on multi-physics modeling of photovoltaic modules. <i>Energy Conversion and Management</i> , 2022, 258, 115414.	4.4	10
81	Laser pulse heating of steel surface and flexural wave analysis. <i>Optics and Lasers in Engineering</i> , 2002, 37, 63-83.	2.0	9
82	Three-point bend testing of HVOF Inconel 625 coating: FEM simulation and experimental investigation. <i>Surface and Coatings Technology</i> , 2006, 201, 1873-1879.	2.2	9
83	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
84	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
85	Effect of process variables on gas nitriding of H13 tool steel with controlled nitriding potential. <i>International Journal of Surface Science and Engineering</i> , 2010, 4, 396.	0.4	9
86	Optimized Bands: A New Design Concept for Concentrating Solar Parabolic Mirrors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011, 133, .	1.1	9
87	Finite Element Modeling and Analysis of Photovoltaic Modules. , 2012, , .		9
88	Experimental and Numerical Investigations on the Mechanical Characteristics of Carbon Fiber Sensors. <i>Sensors</i> , 2017, 17, 2026.	2.1	9
89	Evaluation of Tribological Properties of Thermally Sprayed Copper and Copper Alloy Coatings. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 4899-4910.	1.7	9
90	Design and Development of Hybrid Al ₂ O ₃ Based Composites with Toughening and Self-Lubricating Second-Phase Inclusions. <i>Materials</i> , 2019, 12, 2378.	1.3	9

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91	Performance of a finite element procedure for hyperelastic-viscoplastic large deformation problems. <i>Finite Elements in Analysis and Design</i> , 2000, 34, 89-112.	1.7	8
92	Defining Shape Complexity of Extrusion Dies—A Reliabilistic View. <i>Materials and Manufacturing Processes</i> , 2007, 22, 804-810.	2.7	8
93	Modelling of residual stresses during laser cutting of small-diameter holes. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2008, 222, 1577-1587.	1.5	8
94	Nitriding of Aluminum Extrusion Die: Effect of Die Geometry. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 401-412.	1.2	8
95	The impact of fin profile and interface condition on performance characteristics of heat sinks. <i>Applied Thermal Engineering</i> , 2013, 55, 102-112.	3.0	8
96	Effect of Composition and Thickness on the Hardness and Scratch Resistance of Copper and Copper Alloy Coatings. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 4895-4904.	1.7	8
97	Laser Repetitive Pulse Heating of Steel Surface: A Material Response to Thermal Loading. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2002, 124, 595-604.	1.3	7
98	On the use of non-linear finite element analysis in deformation evaluation and development of design charts for extrusion processes. <i>Finite Elements in Analysis and Design</i> , 2003, 39, 1007-1020.	1.7	7
99	Laser cutting of large-aspect-ratio rectangular blanks in thick sheet metal: Thermal stress analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2009, 223, 63-71.	1.5	7
100	Analytic solutions of initial-boundary-value problems of transient conduction using symmetries. <i>Applied Mathematics and Computation</i> , 2010, 215, 4132-4140.	1.4	7
101	Laser treatment of silicon at nitrogen ambient: Thermal stress analysis. <i>Surface Engineering</i> , 2011, 27, 436-444.	1.1	7
102	Approximate Analytic Solutions of Transient Nonlinear Heat Conduction with Temperature-Dependent Thermal Diffusivity. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-12.	0.3	7
103	A strategy to improve tool life by controlling cohesive failure in thick TiAlN coating during turning of CGI. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 2793-2803.	1.5	7
104	Performance evaluations of Ti-based PVD coatings deposited on cermet tools for high-speed dry finish turning of AISI 304 stainless steel. <i>Wear</i> , 2022, 492-493, 204214.	1.5	7
105	Effect of input variability on the quality of laser shock processing. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2603-2611.	0.7	6
106	Effect of Changing Atmospheric and Operating Conditions on the Thermal Stresses in PV Modules. , 2012, , .		6
107	Effect of Profile Corners on the Nitriding Treatment of AISI H13 Hot Extrusion Dies. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014, 136, .	1.3	6
108	Shape Optimized Heliostats Using a Tailored Stiffness Approach. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014, 136, .	1.1	6

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109	3.4 Residual Stresses in Thermal Spray Coating. , 2017, , 56-70.		6
110	Laser Short Pulse Heating and Elastic-Plastic Wave Generation. Japanese Journal of Applied Physics, 2000, 39, 5879-5888.	0.8	5
111	Prediction of roll temperature with a non-uniform heat flux at tool and workpiece interface. Heat and Mass Transfer, 2004, 41, 75-94.	1.2	5
112	Laser short pulse heating: Influence of pulse intensity on temperature and stress fields. Applied Surface Science, 2006, 252, 8428-8437.	3.1	5
113	Laser gas assisted nitriding of Ti-6Al-4V alloy and residual stress analysis. Surface Engineering, 2009, 25, 228-234.	1.1	5
114	Effect of Al-6063 Billet Quality on the Service Life of Hot Extrusion Die: Metallurgical and Statistical Investigation. Journal of Failure Analysis and Prevention, 2009, 9, 253-261.	0.5	5
115	A Novel Approach for Designing Parabolic Mirrors Using Optimized Compliant Bands. , 2011, , .		5
116	The effect of coating and interface resistance on thermal performance of variable thickness annular composite fins. Energy Conversion and Management, 2012, 54, 152-161.	4.4	5
117	The effect of porosity on the hot corrosion failure of thermal barrier coatings. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 075001.	0.8	5
118	Behavior and failure of adhesive bonds in pin fin heat sinks using cohesive zone model. International Journal of Adhesion and Adhesives, 2016, 68, 397-406.	1.4	5
119	Estimation and optimisation of effective thermal conductivity for polymer matrix composites with hybrid inclusions. Journal of Composite Materials, 2018, 52, 2139-2148.	1.2	5
120	A Stochastically Generated Geometrical Finite Element Model for Predicting the Residual Stresses of Thermally Sprayed Coatings Under Different Process Parameters. Journal of Thermal Spray Technology, 2020, 29, 1256-1267.	1.6	5
121	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
122	A CVN-K(K _{IC}) correlation for H13 tool steels. International Journal of Materials and Product Technology, 2008, 33, 421.	0.1	4
123	Laser melting of HVOF coating: Effect of base material on residual stress formation. Surface Engineering, 2009, 25, 249-256.	1.1	4
124	Thermal-Structural Performance of Orthotropic Pin Fin in Electronics Cooling Applications. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.2	4
125	Computational Tradeoff in Modal Characteristics of Complex Rotor Systems Using FEM. Arabian Journal for Science and Engineering, 2012, 37, 1653-1664.	1.1	4
126	Study of coating effects on variable profile annular fins when subjected to dehumidifying operating conditions. International Journal of Refrigeration, 2014, 48, 60-70.	1.8	4

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127	Constitutive modeling of elastoplasticity in spark-plasma sintered metal-matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 689, 176-188.	2.6	4
128	A new differential scheme for the development of thermally conductive polymer-composites with non-dilute filler concentrations. <i>International Journal of Thermal Sciences</i> , 2021, 163, 106809.	2.6	4
129	Simulation of elastic displacement of surface during laser short pulse heating of gold. <i>Optical and Quantum Electronics</i> , 2001, 33, 1241-1258.	1.5	3
130	Laser short-pulse heating with time-varying intensity and thermal stress development in the lattice subsystem. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2005, 219, 73-81.	1.1	3
131	Reliability and performance evaluation of extrusion dies. <i>International Journal of Reliability and Safety</i> , 2011, 5, 21.	0.2	3
132	Finite element simulation of the effect of Al-6063 billet quality on the extrusion die performance. <i>Industrial Lubrication and Tribology</i> , 2013, 65, 78-90.	0.6	3
133	Thermal Analysis of Orthotropic Pin Fins With Contact Resistance: A Closed-Form Analytical Solution. <i>Heat Transfer Engineering</i> , 2013, 34, 349-360.	1.2	3
134	Impact Resistance of Filament Wound Composite Pipes: A Parametric Study. , 2014, , .		3
135	Prediction of Residual Stresses During Gas Nitriding of H13 Steels Using Phase Field Approach. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	1.3	3
136	A Computational Approach for the Constitutive Modeling of Elastoplastic Behavior of Metal Matrix Composites. <i>International Journal of Computational Methods</i> , 2017, 14, 1750058.	0.8	3
137	Design and Performance Evaluation of Al ₂ O ₃ -SiC Composite for Direct-Bonded Copper Substrate. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 5831-5844.	1.2	3
138	Tribological behavior of differently deposited Al-Si layer in the improvement of Inconel 718 machinability. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1245-1258.	1.5	3
139	Gas-assisted laser single-pulse heating: Study of thermal stresses. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2001, 215, 291-306.	1.1	2
140	Elastic displacement of surface due to laser picosecond pulse heating of gold. <i>Optics and Lasers in Engineering</i> , 2002, 37, 651-672.	2.0	2
141	Impact of Repeated Nitriding Cycles on Extrusion Die Life—Some Statistical and Metallurgical Observations. <i>Journal of Failure Analysis and Prevention</i> , 2008, 8, 461-468.	0.5	2
142	Performance of Al-6063 Primary and Secondary Billets Used in Hot Aluminum Extrusion. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2009, 131, .	1.3	2
143	Thermo-Mechanical Fatigue Life Prediction of Orthotropic Composite Pin Fin Heat Sinks for Electronic Packaging. , 2011, , .		2
144	Optimization of Pipe Repair Sleeve Design. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2012, 134, .	0.4	2

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145	Thermal Behavior of Aluminum Alloy Metal Foam Heat Sinks: A Computational and Experimental Approach. , 2015, , .		2
146	3.11 Gas Nitriding of H13 Tool Steel Used for Extrusion Dies: Numerical and Experimental Investigation. , 2017, , 158-177.		2
147	Investigation Into Thermoelastic Displacement of Surfaces Subjected to Gas Assisted Laser Repetitive Pulse Heating. Surface Engineering, 2002, 18, 37-45.	1.1	1
148	A probabilistic study of failures of solid and hollow dies in hot aluminum extrusion. Journal of Materials Processing Technology, 2004, , .	3.1	1
149	Influence of Billet Quality on Hot Extrusion Die Life and its Relationship with Process Parameters. Advanced Materials Research, 0, 83-86, 866-873.	0.3	1
150	Improved formulation of electron kinetic theory approach for laser shortpulse heating: Thermal stress consideration. Current Applied Physics, 2009, 9, 1423-1433.	1.1	1
151	Thermal-Structural Performance of Orthotropic Pin Fin Applications. , 2009, , .		1
152	Effect of Geometry, Material and Pressure Variability on Strain and Stress Fields in Dented Pipelines Under Static and Cyclic Pressure Loading Using Probability Analysis. , 2010, , .		1
153	Integrity Assessment of Interaction of Dents With Residual Stresses of Welds Using Probabilistic Design Analysis. , 2012, , .		1
154	Non-Dimensional Finite Element Formulation for Thermal Problems. , 2012, , .		1
155	Efficiency of Longitudinal Composite Fins With Thermal Interface Studied Through Plane Thermal Nondimensional Finite Element. Heat Transfer Engineering, 2013, 34, 629-641.	1.2	1
156	Phase Transformation Stress Field due to Hot Corrosion in the Top Coat of TBC. , 2013, , .		1
157	Study of Combined Heat and Mass Transfer From Fins Using Non-Dimensional Finite Element Formulation. , 2013, , .		1
158	Investigation and Validation of Finite Element Analysis Material Modeling for Integrity Assessment of Indented Pipe Under Static and Cyclic Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.4	1
159	Performance of a Composite Repair System for Externally Corroded Metallic Pipe Using Numerical Model. , 2014, , .		1
160	On the thermal conductivity of spark plasma sintered alumina hybrid nanocomposites: Estimation modeling and experimental validation. Science of Sintering, 2019, 51, 101-114.	0.5	1
161	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
162	Laser short pulse heating of copper: Thermo-“elasto”-plastic analysis. Journal of Laser Applications, 2004, 16, 111-120.	0.8	0

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163	On the Modeling of Laser as a Moving Distributed Volumetric Heat Source for Laser Cutting Simulation. <i>Advanced Materials Research</i> , 0, 83-86, 858-865.	0.3	0
164	Integrity Assessment of Multiple Dents in Oil and Gas Pipelines Using Probabilistic Design Analysis. , 2010, , .		0
165	Thermal and Structural Response of Pin Fins for Different Interface Conditions. , 2010, , .		0
166	Effect of Geometry, Material, and Pressure Variability on Strain and Stress Fields in Dented Pipelines Under Static and Cyclic Pressure Loading Using Probabilistic Analysis. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2011, 133, .	0.4	0
167	Optimization of Pipe Repair Sleeve Design. , 2011, , .		0
168	Estimation of Residual Stress in Spiral Welded Pipe: Regression and Numerical Model. , 2012, , .		0
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