

Abul Fazal Muhammad Arif

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

156
papers

2,015
citations

23
h-index

35
g-index

178
ext. papers

2,330
ext. citations

3.4
avg, IF

5.24
L-index

#	Paper	IF	Citations
156	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	3.5	0
155	A comprehensive review on multi-physics modeling of photovoltaic modules. <i>Energy Conversion and Management</i> , 2022 , 115414	10.6	0
154	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	4.1	
153	Simulation Led Performance Evaluation and Design of Polymer Composite for Encapsulation of Low-Concentration Photovoltaic Modules. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 8242	1.6	
152	Investigation on wear mechanisms of PVD coatings for form taps in threading of AlSi alloy. <i>Wear</i> , 2021 , 464-465, 203528	3.5	6
151	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	3.5	11
150	Computational design and development of high-performance polymer-composites as new encapsulant material for concentrated PV modules. <i>Scientific Reports</i> , 2020 , 10, 5304	4.9	7
149	A Stochastically Generated Geometrical Finite Element Model for Predicting the Residual Stresses of Thermally Sprayed Coatings Under Different Process Parameters. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1256-1267	2.5	0
148	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	3.2	6
147	Effect of edge preparation technologies on cutting edge properties and tool performance. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 1823-1838	3.2	8
146	Wear of form taps in threading of Al-Si alloy parts: Mechanisms and measurements. <i>Wear</i> , 2020 , 442-443, 203153	3.5	5
145	Evolution of internal cracks and residual stress during deposition of TBC. <i>Ceramics International</i> , 2020 , 46, 26731-26753	5.1	4
144	Experimental and Computational Analysis of Low-Velocity Impact on Carbon-, Glass- and Mixed-Fiber Composite Plates. <i>Journal of Composites Science</i> , 2020 , 4, 148	3	7
143	Effects on tool performance of cutting edge prepared by pressurized air wet abrasive jet machining (PAWAJM). <i>Journal of Materials Processing Technology</i> , 2020 , 277, 116456	5.3	7
142	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. <i>Wear</i> , 2020 , 452-453, 203285	3.5	6
141	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	3.2	2
140	Splats Formation, Interaction and Residual Stress Evolution in Thermal Spray Coating Using a Hybrid Computational Model. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 359-377	2.5	6

139	A novel heat exchanger design procedure for photovoltaic panel cooling application: An analytical and experimental evaluation. <i>Applied Energy</i> , 2019 , 239, 41-56	10.7	24
138	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	3.2	13
137	A hybrid computational approach for modeling thermal spray deposition. <i>Surface and Coatings Technology</i> , 2019 , 362, 311-327	4.4	6
136	Design and Development of Hybrid AlO Based Composites with Toughening and Self-Lubricating Second-Phase Inclusions. <i>Materials</i> , 2019 , 12,	3.5	4
135	On the thermal conductivity of spark plasma sintered alumina hybrid nanocomposites: Estimation modeling and experimental validation. <i>Science of Sintering</i> , 2019 , 51, 101-114	0.7	1
134	Design and development of thermally conductive hybrid nano-composites in polysulfone matrix. <i>Polymer Composites</i> , 2019 , 40, 1419-1432	3	10
133	Evaluation of Tribological Properties of Thermally Sprayed Copper and Copper Alloy Coatings. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 4899-4910	2.5	4
132	Estimation and optimisation of effective thermal conductivity for polymer matrix composites with hybrid inclusions. <i>Journal of Composite Materials</i> , 2018 , 52, 2139-2148	2.7	2
131	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	1.6	2
130	Design and development of ceramic-based composites with tailored properties for cutting tool inserts. <i>Ceramics International</i> , 2018 , 44, 22421-22431	5.1	16
129	Development of a ceramic-based composite for direct bonded copper substrate. <i>Ceramics International</i> , 2017 , 43, 5236-5246	5.1	18
128	3D modeling and analysis of the thermo-mechanical behavior of metal foam heat sinks. <i>International Journal of Thermal Sciences</i> , 2017 , 116, 199-213	4.1	13
127	A Computational Approach for the Constitutive Modeling of Elastoplastic Behavior of Metal Matrix Composites. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750058	1.1	3
126	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	5.3	4
125	A computational and experimental study on the effective properties of Al ₂ O ₃ -Ni composites. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 766-778	2	10
124	3.4 Residual Stresses in Thermal Spray Coating 2017 , 56-70		6
123	3.11 Gas Nitriding of H13 Tool Steel Used for Extrusion Dies: Numerical and Experimental Investigation 2017 , 158-177		0
122	Modeling Residual Stress Development in Thermal Spray Coatings: Current Status and Way Forward. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1115-1145	2.5	22

121	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	2.5	5
120	Experimental and Numerical Investigations on the Mechanical Characteristics of Carbon Fiber Sensors. <i>Sensors</i> , 2017 , 17,	3.8	3
119	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,	3.3	1
118	Generalized Effective Medium Theory for Particulate Nanocomposite Materials. <i>Materials</i> , 2016 , 9,	3.5	18
117	Permeability-Selectivity Analysis of Microfiltration and Ultrafiltration Membranes: Effect of Pore Size and Shape Distribution and Membrane Stretching. <i>Membranes</i> , 2016 , 6,	3.8	18
116	Behavior and failure of adhesive bonds in pin fin heat sinks using cohesive zone model. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 68, 397-406	3.4	5
115	Performance of open pore metal foam heat sinks fabricated with thermally sprayed interface. <i>Applied Thermal Engineering</i> , 2016 , 105, 411-424	5.8	11
114	Investigation of residual stress development in spiral welded pipe. <i>Journal of Materials Processing Technology</i> , 2015 , 215, 225-238	5.3	22
113	Thermal Behavior of Aluminum Alloy Metal Foam Heat Sinks: A Computational and Experimental Approach 2015 ,		2
112	The effect of porosity on the hot corrosion failure of thermal barrier coatings. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 075001	2	5
111	Phase field modeling of V2O5 hot corrosion kinetics in thermal barrier coatings. <i>Computational Materials Science</i> , 2015 , 99, 105-116	3.2	34
110	Study of coating effects on variable profile annular fins when subjected to dehumidifying operating conditions. <i>International Journal of Refrigeration</i> , 2014 , 48, 60-70	3.8	2
109	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	3.4	9
108	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	6.4	48
107	Approximate Analytic Solutions of Transient Nonlinear Heat Conduction with Temperature-Dependent Thermal Diffusivity. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-12	0.7	5
106	Characterization of Nanoreinforcement Dispersion in Inorganic Nanocomposites: A Review. <i>Materials</i> , 2014 , 7, 4148-4181	3.5	27
105	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,	3.3	5
104	Impact Resistance of Filament Wound Composite Pipes: A Parametric Study 2014 ,		1

103	Shape Optimized Heliostats Using a Tailored Stiffness Approach. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014 , 136,	2.3	4
102	Finite Element Modeling, Analysis, and Life Prediction of Photovoltaic Modules. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014 , 136,	2.3	11
101	The impact of fin profile and interface condition on performance characteristics of heat sinks. <i>Applied Thermal Engineering</i> , 2013 , 55, 102-112	5.8	7
100	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	1.3	2
99	Impact resistance of composite laminate flat plates [A parametric sensitivity analysis approach. <i>Composite Structures</i> , 2013 , 102, 138-147	5.3	12
98	Electrical, thermal and structural performance of a cooled PV module: Transient analysis using a multiphysics model. <i>Applied Energy</i> , 2013 , 112, 300-312	10.7	64
97	An improved electric circuit model for photovoltaic modules based on sensitivity analysis. <i>Solar Energy</i> , 2013 , 90, 29-42	6.8	49
96	ANN prediction model for composite plates against low velocity impact loads using finite element analysis. <i>Composite Structures</i> , 2013 , 101, 290-300	5.3	23
95	Efficiency of Longitudinal Composite Fins With Thermal Interface Studied Through Plane Thermal Nondimensional Finite Element. <i>Heat Transfer Engineering</i> , 2013 , 34, 629-641	1.7	
94	Thermal Analysis of Orthotropic Pin Fins With Contact Resistance: A Closed-Form Analytical Solution. <i>Heat Transfer Engineering</i> , 2013 , 34, 349-360	1.7	3
93	Investigation and Validation of Finite Element Analysis Material Modeling for Integrity Assessment of Indented Pipe Under Static and Cyclic Loading. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2013 , 135,	1.2	1
92	The effect of coating and interface resistance on thermal performance of variable thickness annular composite fins. <i>Energy Conversion and Management</i> , 2012 , 54, 152-161	10.6	4
91	Laser bending of AISI 304 steel sheets: Thermal stress analysis. <i>Optics and Laser Technology</i> , 2012 , 44, 303-309	4.2	25
90	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	3.2	17
89	Computational Tradeoff in Modal Characteristics of Complex Rotor Systems Using FEM. <i>Arabian Journal for Science and Engineering</i> , 2012 , 37, 1653-1664		4
88	Development of Residual Stress during Manufacturing of Spiral Welded Pipes. <i>Materials and Manufacturing Processes</i> , 2012 , 27, 738-745	4.1	13
87	Three-dimensional thermal modeling of a photovoltaic module under varying conditions. <i>Solar Energy</i> , 2012 , 86, 2620-2631	6.8	96
86	The Effect of Clearance and Pre-Tension on the Performance of a Bolted-Joint Using 3D FEA. <i>Arabian Journal for Science and Engineering</i> , 2012 , 37, 749-763		9

85	Finite Element Modeling and Analysis of Photovoltaic Modules 2012 ,		5
84	Effect of Changing Atmospheric and Operating Conditions on the Thermal Stresses in PV Modules 2012 ,		3
83	Thermal-Structural Performance of Orthotropic Pin Fin in Electronics Cooling Applications. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2012 , 134,	2	3
82	Reliability and performance evaluation of extrusion dies. <i>International Journal of Reliability and Safety</i> , 2011 , 5, 21	0.9	1
81	Thermo-Mechanical Fatigue Life Prediction of Orthotropic Composite Pin Fin Heat Sinks for Electronic Packaging 2011 ,		2
80	Laser cutting of steel and thermal stress development. <i>Optics and Laser Technology</i> , 2011 , 43, 830-837	4.2	11
79	Study of orthotropic pin fin performance through axisymmetric thermal non-dimensional finite element. <i>Applied Thermal Engineering</i> , 2011 , 31, 376-384	5.8	11
78	Thermal analysis of orthotropic annular fins with contact resistance: A closed-form analytical solution. <i>Applied Thermal Engineering</i> , 2011 , 31, 937-945	5.8	15
77	Thermal stress analysis of spiral laser-welded tube. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 675-687	5.3	13
76	Laser control melting of alumina surfaces and thermal stress analysis. <i>Optics and Laser Technology</i> , 2011 , 43, 858-865	4.2	28
75	On the feasibility of community-scale photovoltaic-powered reverse osmosis desalination systems for remote locations. <i>Renewable Energy</i> , 2011 , 36, 3246-3256	8.1	84
74	A Novel Approach for Designing Parabolic Mirrors Using Optimized Compliant Bands 2011 ,		3
73	Optimized Bands: A New Design Concept for Concentrating Solar Parabolic Mirrors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	6
72	Laser treatment of silicon at nitrogen ambient: thermal stress analysis. <i>Surface Engineering</i> , 2011 , 27, 436-444	2.6	5
71	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	1	6
70	Thermal Analysis and Optimization of Orthotropic Pin Fins: A Closed-Form Analytical Solution. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	15
69	Laser gas-assisted nitriding of steel: residual stress analysis. <i>Industrial Lubrication and Tribology</i> , 2010 , 62, 214-223	1.3	13
68	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	3.2	36

67	Laser nitriding of tool steel: thermal stress analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 49, 1009-1018	3.2	19
66	Laser cutting of sharp edge: Thermal stress analysis. <i>Optics and Lasers in Engineering</i> , 2010 , 48, 10-19	4.6	24
65	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	1.6	9
64	Nitriding of Aluminum Extrusion Die: Effect of Die Geometry. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 401-412	1.6	4
63	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	1.6	13
62	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	0.9	14
61	Laser welding of low carbon steel and thermal stress analysis. <i>Optics and Laser Technology</i> , 2010 , 42, 760-768	4.2	69
60	Analytic solutions of initial-boundary-value problems of transient conduction using symmetries. <i>Applied Mathematics and Computation</i> , 2010 , 215, 4132-4140	2.7	5
59	Influence of Billet Quality on Hot Extrusion Die Life and its Relationship with Process Parameters. <i>Advanced Materials Research</i> , 2009 , 83-86, 866-873	0.5	1
58	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	2.4	6
57	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,	3.3	2
56	Effect of Extrusion Die Profile on the Uniformity of Nitrided Layers. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 619-625	4.1	9
55	Laser gas assisted nitriding of Ti-6Al-4V alloy and residual stress analysis. <i>Surface Engineering</i> , 2009 , 25, 228-234	2.6	4
54	Laser melting of HVOF coating: effect of base material on residual stress formation. <i>Surface Engineering</i> , 2009 , 25, 249-256	2.6	4
53	Laser gas assisted nitriding of alumina surfaces. <i>Surface Engineering</i> , 2009 , 25, 235-240	2.6	21
52	On the Modeling of Laser as a Moving Distributed Volumetric Heat Source for Laser Cutting Simulation. <i>Advanced Materials Research</i> , 2009 , 83-86, 858-865	0.5	
51	Effect of Al-6063 Billet Quality on the Service Life of Hot Extrusion Die: Metallurgical and Statistical Investigation. <i>Journal of Failure Analysis and Prevention</i> , 2009 , 9, 253-261	0.9	4
50	Effect of input variability on the quality of laser shock processing. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 2603-2611	1.6	6

49	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	3.2	12
48	Laser cutting of holes in thick sheet metals: Development of stress field. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 909-916	4.6	22
47	Laser cutting of thick sheet metals: Residual stress analysis. <i>Optics and Laser Technology</i> , 2009 , 41, 224-232	4.2	24
46	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	5.3	20
45	Improved formulation of electron kinetic theory approach for laser shortpulse heating: Thermal stress consideration. <i>Current Applied Physics</i> , 2009 , 9, 1423-1433	2.6	0
44	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	2.4	7
43	A CVN-K(KIC) correlation for H13 tool steels. <i>International Journal of Materials and Product Technology</i> , 2008 , 33, 421	1	3
42	Thermal stress developed during the laser cutting process: consideration of different materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 37, 698-704	3.2	33
41	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	1.6	6
40	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	0.9	2
39	Monte Carlo simulation of extrusion die life. <i>Journal of Materials Processing Technology</i> , 2008 , 202, 96-106	0.5	11
38	Laser shock processing of aluminium: model and experimental study. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6740-6747	3	16
37	Residual stress analysis for hvof diamalloy 1005 coating on Ti6Al4V alloy. <i>Surface and Coatings Technology</i> , 2007 , 202, 559-568	4.4	19
36	Cemented carbide cutting tool: Laser processing and thermal stress analysis. <i>Applied Surface Science</i> , 2007 , 253, 5544-5552	6.7	37
35	Defining Shape Complexity of Extrusion Dies: A Reliabilistic View. <i>Materials and Manufacturing Processes</i> , 2007 , 22, 804-810	4.1	8
34	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	2.4	9
33	Laser short pulse heating: Influence of pulse intensity on temperature and stress fields. <i>Applied Surface Science</i> , 2006 , 252, 8428-8437	6.7	3
32	Regression-based CVN/KIC Models for hot work tool steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 430, 208-215	5.3	13

31	Three-point bend testing of HVOF Inconel 625 coating: FEM simulation and experimental investigation. <i>Surface and Coatings Technology</i> , 2006 , 201, 1873-1879	4.4	7
30	HVOF coating and laser treatment: three-point bending tests. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 954-957	5.3	20
29	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	1.3	2
28	Laser short pulse heating of copper: Thermoelastoplastic analysis. <i>Journal of Laser Applications</i> , 2004 , 16, 111-120	2.1	
27	Analysis of Product Defects in a Typical Aluminum Extrusion Facility. <i>Materials and Manufacturing Processes</i> , 2004 , 19, 391-405	4.1	16
26	Investigation into laser shock processing. <i>Journal of Materials Engineering and Performance</i> , 2004 , 13, 47-54	1.6	15
25	Prediction of roll temperature with a non-uniform heat flux at tool and workpiece interface. <i>Heat and Mass Transfer</i> , 2004 , 41, 75-94	2.2	3
24	Roll deformation and stress distribution under thermo-mechanical loading in cold rolling. <i>Journal of Materials Processing Technology</i> , 2004 , 147, 255-267	5.3	27
23	A new definition of shape complexity for metal extrusion. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1734-1739	5.3	23
22	A probabilistic study of failures of solid and hollow dies in hot aluminum extrusion. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1740-1748	5.3	12
21	THERMAL ANALYSIS OF A COLD ROLLING PROCESS [A NUMERICAL APPROACH]. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004 , 46, 613-632	2.3	12
20	A probabilistic study of failures of solid and hollow dies in hot aluminum extrusion. <i>Journal of Materials Processing Technology</i> , 2004 ,	5.3	1
19	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	2.4	41
18	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	2.2	7
17	Laser-shock processing of steel. <i>Journal of Materials Processing Technology</i> , 2003 , 135, 6-17	5.3	51
16	A study of die failure mechanisms in aluminum extrusion. <i>Journal of Materials Processing Technology</i> , 2003 , 134, 318-328	5.3	64
15	Numerical prediction of plastic deformation and residual stresses induced by laser shock processing. <i>Journal of Materials Processing Technology</i> , 2003 , 136, 120-138	5.3	67
14	Laser shortpulse heating of a gold-chromium-gold multilayer assembly. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003 , 217, 797-809 ¹⁻³		

13	Laser pulse heating of steel surface and flexural wave analysis. <i>Optics and Lasers in Engineering</i> , 2002 , 37, 63-83	4.6	8
12	Elastic displacement of surface due to laser picosecond pulse heating of gold. <i>Optics and Lasers in Engineering</i> , 2002 , 37, 651-672	4.6	2
11	Investigation Into Thermoelastic Displacement of Surfaces Subjected to Gas Assisted Laser Repetitive Pulse Heating. <i>Surface Engineering</i> , 2002 , 18, 37-45	2.6	1
10	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	3.3	5
9	TEMPERATURE AND STRESS FIELDS IN SILVER DUE TO LASER PICOSECOND HEATING PULSE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2002 , 42, 623-646	2.3	4
8	Material response to thermal loading due to short pulse laser heating. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 3787-3798	4.9	41
7	Simulation of elastic displacement of surface during laser short pulse heating of gold. <i>Optical and Quantum Electronics</i> , 2001 , 33, 1241-1258	2.4	3
6	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	1.3	2
5	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	4.1	20
4	Performance of a finite element procedure for hyperelastic-viscoplastic large deformation problems. <i>Finite Elements in Analysis and Design</i> , 2000 , 34, 89-112	2.2	6
3	Laser Short Pulse Heating and Elastic-Plastic Wave Generation. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 5879-5888	1.4	4
2	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	2.4	15
1	On the performance of two tangent operators for finite element analysis of large deformation inelastic problems. <i>International Journal for Numerical Methods in Engineering</i> , 1992 , 35, 369-389	2.4	14