Abul Fazal Muhammad Arif

List of Publications by Citations

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	Three-dimensional thermal modeling of a photovoltaic module under varying conditions. *Solar Energy*, **2012**, 86, 2620-2631	6.8	96
155	On the feasibility of community-scale photovoltaic-powered reverse osmosis desalination systems for remote locations. *Renewable Energy*, **2011**, 36, 3246-3256	8.1	84
154	Laser welding of low carbon steel and thermal stress analysis. *Optics and Laser Technology*, **2010**, 42, 760-768	4.2	69
153	Numerical prediction of plastic deformation and residual stresses induced by laser shock processing. *Journal of Materials Processing Technology*, **2003**, 136, 120-138	5.3	67
152	Electrical, thermal and structural performance of a cooled PV module: Transient analysis using a multiphysics model. *Applied Energy*, **2013**, 112, 300-312	10.7	64
151	A study of die failure mechanisms in aluminum extrusion. *Journal of Materials Processing Technology*, **2003**, 134, 318-328	5.3	64
150	Laser-shock processing of steel. *Journal of Materials Processing Technology*, **2003**, 135, 6-17	5.3	51
149	An improved electric circuit model for photovoltaic modules based on sensitivity analysis. *Solar Energy*, **2013**, 90, 29-42	6.8	49
148	Performance and life prediction model for photovoltaic modules: Effect of encapsulant constitutive behavior. *Solar Energy Materials and Solar Cells*, **2014**, 122, 75-87	6.4	48
147	Finite element evaluation of clearance effect on tube-to-tubesheet joint strength. *International Journal of Pressure Vessels and Piping*, **2003**, 80, 879-885	2.4	41
146	Material response to thermal loading due to short pulse laser heating. *International Journal of Heat and Mass Transfer*, **2001**, 44, 3787-3798	4.9	41
145	Cemented carbide cutting tool: Laser processing and thermal stress analysis. *Applied Surface Science*, **2007**, 253, 5544-5552	6.7	37
144	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	3.2	36
143	Phase field modeling of V2O5 hot corrosion kinetics in thermal barrier coatings. *Computational Materials Science*, **2015**, 99, 105-116	3.2	34
142	Thermal stress developed during the laser cutting process: consideration of different materials. *International Journal of Advanced Manufacturing Technology*, **2008**, 37, 698-704	3.2	33
141	Laser control melting of alumina surfaces and thermal stress analysis. *Optics and Laser Technology*, **2011**, 43, 858-865	4.2	28
140	Characterization of Nanoreinforcement Dispersion in Inorganic Nanocomposites: A Review. *Materials*, **2014**, 7, 4148-4181	3.5	27

139	Roll deformation and stress distribution under thermo-mechanical loading in cold rolling. *Journal of Materials Processing Technology*, **2004**, 147, 255-267	5.3	27
138	Laser bending of AISI 304 steel sheets: Thermal stress analysis. *Optics and Laser Technology*, **2012**, 44, 303-309	4.2	25
137	A novel heat exchanger design procedure for photovoltaic panel cooling application: An analytical and experimental evaluation. *Applied Energy*, **2019**, 239, 41-56	10.7	24
136	Laser cutting of thick sheet metals: Residual stress analysis. *Optics and Laser Technology*, **2009**, 41, 224-233	4.2	24
135	Laser cutting of sharp edge: Thermal stress analysis. *Optics and Lasers in Engineering*, **2010**, 48, 10-19	4.6	24
134	ANN prediction model for composite plates against low velocity impact loads using finite element analysis. *Composite Structures*, **2013**, 101, 290-300	5.3	23
133	A new definition of shape complexity for metal extrusion. *Journal of Materials Processing Technology*, **2004**, 155-156, 1734-1739	5.3	23
132	Investigation of residual stress development in spiral welded pipe. *Journal of Materials Processing Technology*, **2015**, 215, 225-238	5.3	22
131	Modeling Residual Stress Development in Thermal Spray Coatings: Current Status and Way Forward. *Journal of Thermal Spray Technology*, **2017**, 26, 1115-1145	2.5	22
130	Laser cutting of holes in thick sheet metals: Development of stress field. *Optics and Lasers in Engineering*, **2009**, 47, 909-916	4.6	22
129	Laser gas assisted nitriding of alumina surfaces. *Surface Engineering*, **2009**, 25, 235-240	2.6	21
128	Laser treatment of aluminum surface: Analysis of thermal stress field in the irradiated region. *Journal of Materials Processing Technology*, **2009**, 209, 77-88	5.3	20
127	HVOF coating and laser treatment: three-point bending tests. *Journal of Materials Processing Technology*, **2005**, 164-165, 954-957	5.3	20
126	VARIATION OF PRESSURE WITH RAM SPEED AND DIE PROFILE IN HOT EXTRUSION OF ALUMINUM-6063. *Materials and Manufacturing Processes*, **2001**, 16, 701-716	4.1	20
125	Laser nitriding of tool steel: thermal stress analysis. *International Journal of Advanced Manufacturing Technology*, **2010**, 49, 1009-1018	3.2	19
124	Residual stress analysis for hvof diamalloy 1005 coating on Ti□Al□V alloy. *Surface and Coatings Technology*, **2007**, 202, 559-568	4.4	19
123	Development of a ceramic-based composite for direct bonded copper substrate. *Ceramics International*, **2017**, 43, 5236-5246	5.1	18
122	Generalized Effective Medium Theory for Particulate Nanocomposite Materials. *Materials*, **2016**, 9,	3.5	18

121	Permeability-Selectivity Analysis of Microfiltration and Ultrafiltration Membranes: Effect of Pore Size and Shape Distribution and Membrane Stretching. *Membranes*, **2016**, 6,	3.8	18
120	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	3.2	17
119	Laser shock processing of aluminium: model and experimental study. *Journal Physics D: Applied Physics*, **2007**, 40, 6740-6747	3	16
118	Analysis of Product Defects in a Typical Aluminum Extrusion Facility. *Materials and Manufacturing Processes*, **2004**, 19, 391-405	4.1	16
117	Design and development of ceramic-based composites with tailored properties for cutting tool inserts. *Ceramics International*, **2018**, 44, 22421-22431	5.1	16
116	Thermal Analysis and Optimization of Orthotropic Pin Fins: A Closed-Form Analytical Solution. *Journal of Heat Transfer*, **2010**, 132,	1.8	15
115	Thermal analysis of orthotropic annular fins with contact resistance: A closed-form analytical solution. *Applied Thermal Engineering*, **2011**, 31, 937-945	5.8	15
114	Investigation into laser shock processing. *Journal of Materials Engineering and Performance*, **2004**, 13, 47-54	1.6	15
113	A family of integration algorithms for constitutive equations in finite deformation elasto-viscoplasticity. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 59-84	2.4	15
112	Fatigue Failure of Extrusion Dies: Effect of Process Parameters and Design Features on Die Life. *Journal of Failure Analysis and Prevention*, **2010**, 10, 38-49	0.9	14
111	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	2.4	14
110	3D modeling and analysis of the thermo-mechanical behavior of metal foam heat sinks. *International Journal of Thermal Sciences*, **2017**, 116, 199-213	4.1	13
109	Use of acoustic emission and cutting force signals to monitor built-up edge formation in stainless steel turning. *International Journal of Advanced Manufacturing Technology*, **2019**, 103, 2257-2276	3.2	13
108	Development of Residual Stress during Manufacturing of Spiral Welded Pipes. *Materials and Manufacturing Processes*, **2012**, 27, 738-745	4.1	13
107	Laser gas-assisted nitriding of steel: residual stress analysis. *Industrial Lubrication and Tribology*, **2010**, 62, 214-223	1.3	13
106	Thermal stress analysis of spiral laser-welded tube. *Journal of Materials Processing Technology*, **2011**, 211, 675-687	5.3	13
105	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	1.6	13
104	Regression-based CVNIC Models for hot work tool steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 430, 208-215	5.3	13

103	Impact resistance of composite laminate flat plates – A parametric sensitivity analysis approach. *Composite Structures*, **2013**, 102, 138-147	5.3	12
102	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	3.2	12
101	A probabilistic study of failures of solid and hollow dies in hot aluminum extrusion. *Journal of Materials Processing Technology*, **2004**, 155-156, 1740-1748	5.3	12
100	THERMAL ANALYSIS OF A COLD ROLLING PROCESS – A NUMERICAL APPROACH. *Numerical Heat Transfer; Part A: Applications*, **2004**, 46, 613-632	2.3	12
99	The influence of residual stress on the properties and performance of thick TiAlN multilayer coating during dry turning of compacted graphite iron. *Wear*, **2020**, 454-455, 203342	3.5	11
98	Finite Element Modeling, Analysis, and Life Prediction of Photovoltaic Modules. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2014**, 136,	2.3	11
97	Laser cutting of steel and thermal stress development. *Optics and Laser Technology*, **2011**, 43, 830-837	4.2	11
96	Study of orthotropic pin fin performance through axisymmetric thermal non-dimensional finite element. *Applied Thermal Engineering*, **2011**, 31, 376-384	5.8	11
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94	Performance of open pore metal foam heat sinks fabricated with thermally sprayed interface. *Applied Thermal Engineering*, **2016**, 105, 411-424	5.8	11
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92	Design and development of thermally conductive hybrid nano-composites in polysulfone matrix. *Polymer Composites*, **2019**, 40, 1419-1432	3	10
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90	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		9
89	Effect of Extrusion Die Profile on the Uniformity of Nitrided Layers. *Materials and Manufacturing Processes*, **2009**, 24, 619-625	4.1	9
88	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	1.6	9
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86	Defining Shape Complexity of Extrusion Dies—A Reliabilistic View. *Materials and Manufacturing Processes*, **2007**, 22, 804-810	4.1	8

85	Laser pulse heating of steel surface and flexural wave analysis. *Optics and Lasers in Engineering*, **2002**, 37, 63-83	4.6	8
84	Effect of edge preparation technologies on cutting edge properties and tool performance. *International Journal of Advanced Manufacturing Technology*, **2020**, 106, 1823-1838	3.2	8
83	Computational design and development of high-performance polymer-composites as new encapsulant material for concentrated PV modules. *Scientific Reports*, **2020**, 10, 5304	4.9	7
82	The impact of fin profile and interface condition on performance characteristics of heat sinks. *Applied Thermal Engineering*, **2013**, 55, 102-112	5.8	7
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79	On the use of non-linear finite element analysis in deformation evaluation and development of design charts for extrusion processes. *Finite Elements in Analysis and Design*, **2003**, 39, 1007-1020	2.2	7
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77	Effects on tool performance of cutting edge prepared by pressurized air wet abrasive jet machining (PAWAJM). *Journal of Materials Processing Technology*, **2020**, 277, 116456	5.3	7
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73	Effect of process variables on gas nitriding of H13 tool steel with controlled nitriding potential. *International Journal of Surface Science and Engineering*, **2010**, 4, 396	1	6
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71	Effect of input variability on the quality of laser shock processing. *Journal of Mechanical Science and Technology*, **2009**, 23, 2603-2611	1.6	6
70	Optimized Bands: A New Design Concept for Concentrating Solar Parabolic Mirrors. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2011**, 133,	2.3	6
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64	Effect of Composition and Thickness on the Hardness and Scratch Resistance of Copper and Copper Alloy Coatings. *Arabian Journal for Science and Engineering*, **2017**, 42, 4895-4904	2.5	5
63	The effect of porosity on the hot corrosion failure of thermal barrier coatings. *Modelling and Simulation in Materials Science and Engineering*, **2015**, 23, 075001	2	5
62	Approximate Analytic Solutions of Transient Nonlinear Heat Conduction with Temperature-Dependent Thermal Diffusivity. *Abstract and Applied Analysis*, **2014**, 2014, 1-12	0.7	5
61	Effect of Profile Corners on the Nitriding Treatment of AISI H13 Hot Extrusion Dies. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2014**, 136,	3.3	5
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58	Analytic solutions of initial-boundary-value problems of transient conduction using symmetries. *Applied Mathematics and Computation*, **2010**, 215, 4132-4140	2.7	5
57	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	3.3	5
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55	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	3.4	5
54	Constitutive modeling of elastoplasticity in spark-plasma sintered metal-matrix nanocomposites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2017**, 689, 176-188	5.3	4
53	Evaluation of Tribological Properties of Thermally Sprayed Copper and Copper Alloy Coatings. *Arabian Journal for Science and Engineering*, **2018**, 43, 4899-4910	2.5	4
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51	The effect of coating and interface resistance on thermal performance of variable thickness annular composite fins. *Energy Conversion and Management*, **2012**, 54, 152-161	10.6	4
50	Shape Optimized Heliostats Using a Tailored Stiffness Approach. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2014**, 136,	2.3	4

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47	Laser melting of HVOF coating: effect of base material on residual stress formation. *Surface Engineering*, **2009**, 25, 249-256	2.6	4
46	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	0.9	4
45	Nitriding of Aluminum Extrusion Die: Effect of Die Geometry. *Journal of Materials Engineering and Performance*, **2010**, 19, 401-412	1.6	4
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43	Laser Short Pulse Heating and Elastic-Plastic Wave Generation. *Japanese Journal of Applied Physics*, **2000**, 39, 5879-5888	1.4	4
42	Evolution of internal cracks and residual stress during deposition of TBC. *Ceramics International*, **2020**, 46, 26731-26753	5.1	4
41	A Computational Approach for the Constitutive Modeling of Elastoplastic Behavior of Metal Matrix Composites. *International Journal of Computational Methods*, **2017**, 14, 1750058	1.1	3
40	Experimental and Numerical Investigations on the Mechanical Characteristics of Carbon Fiber Sensors. *Sensors*, **2017**, 17,	3.8	3
39	Thermal Analysis of Orthotropic Pin Fins With Contact Resistance: A Closed-Form Analytical Solution. *Heat Transfer Engineering*, **2013**, 34, 349-360	1.7	3
38	A Novel Approach for Designing Parabolic Mirrors Using Optimized Compliant Bands **2011**,		3
37	Effect of Changing Atmospheric and Operating Conditions on the Thermal Stresses in PV Modules **2012**,		3
36	Thermal-Structural Performance of Orthotropic Pin Fin in Electronics Cooling Applications. *Journal of Electronic Packaging, Transactions of the ASME*, **2012**, 134,	2	3
35	A CVN-K(KIC) correlation for H13 tool steels. *International Journal of Materials and Product Technology*, **2008**, 33, 421	1	3
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29	Finite element simulation of the effect of Al-6063 billet quality on the extrusion die performance. *Industrial Lubrication and Tribology*, **2013**, 65, 78-90	1.3	2
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27	Thermo-Mechanical Fatigue Life Prediction of Orthotropic Composite Pin Fin Heat Sinks for Electronic Packaging **2011**,		2
26	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,	3.3	2
25	Impact of Repeated Nitriding Cycles on Extrusion Die Life Some Statistical and Metallurgical Observations. *Journal of Failure Analysis and Prevention*, **2008**, 8, 461-468	0.9	2
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17	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,	1.2	1
16	Reliability and performance evaluation of extrusion dies. *International Journal of Reliability and Safety*, **2011**, 5, 21	0.9	1
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12	On the thermal conductivity of spark plasma sintered alumina hybrid nanocomposites: Estimation modeling and experimental validation. *Science of Sintering*, **2019**, 51, 101-114	0.7	1
11	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	2.5	0
10	3.11 Gas Nitriding of H13 Tool Steel Used for Extrusion Dies: Numerical and Experimental Investigation **2017**, 158-177		0
9	Improved formulation of electron kinetic theory approach for laser shortpulse heating: Thermal stress consideration. *Current Applied Physics*, **2009**, 9, 1423-1433	2.6	0
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3	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	1.3	
2	A new differential scheme for the development of thermally conductive polymer-composites with non-dilute filler concentrations. *International Journal of Thermal Sciences*, **2021**, 163, 106809	4.1	
1	Simulation Led Performance Evaluation and Design of Polymer Composite for Encapsulation of Low-Concentration Photovoltaic Modules. *Journal of Materials Engineering and Performance*, **2021**, 30, 8242	1.6	