Abdulrahman Al-Ahmari

List of Publications by Year
in descending order

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227	4,592	117625	155660
papers	citations	34 h-index	55 g-index

232	232	232	3479
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Additive manufacturing: Challenges, trends, and applications. Advances in Mechanical Engineering, 2019, 11, 168781401882288.	1.6	325
2	Requirements of the Smart Factory System: A Survey and Perspective. Machines, 2018, 6, 23.	2.2	182
3	Selection of cutting tools and conditions of machining operations using an expert system. Computers in Industry, 2000, 42, 43-58.	9.9	124
4	Deadlock recovery for flexible manufacturing systems modeled with Petri nets. Information Sciences, 2017, 381, 290-303.	6.9	97
5	Predictive machinability models for a selected hard material in turning operations. Journal of Materials Processing Technology, 2007, 190, 305-311.	6.3	95
6	Metallurgical parameters controlling the microstructure and hardness of Alâ€“Siâ€“Cuâ€“Mg base alloys. Materials & Design, 2011, 32, 2130-2142.	5.1	94
7	Laser Ablation and Laser-Hybrid Ablation Processes: A Review. Materials and Manufacturing Processes, 2016, 31, 1121-1142.	4.7	90
8	A Hybrid Machining Process Combining Micro-EDM and Laser Beam Machining of Nickelâ€“Titanium-Based Shape Memory Alloy. Materials and Manufacturing Processes, 2016, 31, 447-455.	4.7	89
9	Robustness of deadlock control for a class of Petri nets with unreliable resources. Information Sciences, 2013, 235, 259-279.	6.9	86
10	A joint optimisation model for inventory replenishment, product assortment, shelf space and display area allocation decisions. European Journal of Operational Research, 2007, 181, 239-251.	5.7	83
11	Implementing Traceability Systems in Specific Supply Chain Management (SCM) through Critical Success Factors (CSFs). Sustainability, 2018, 10, 204.	3.2	79
12	Design for Additive Manufacturing: A Systematic Review. Sustainability, 2020, 12, 7936.	3.2	78
13	Multi-objective optimization of micro-electrical discharge machining of nickel-titanium-based shape memory alloy using MOGA-II. Measurement: Journal of the International Measurement Confederation, 2018, 125, 336-349.	5.0	76
14	Assessment of virtual reality-based manufacturing assembly training system. International Journal of Advanced Manufacturing Technology, 2019, 105, 3743-3759.	3.0	73
15	Computational System to Classify Cyber Crime Offenses using Machine Learning. Sustainability, 2020, 12, 4087.	3.2	63
16	Reversed fuzzy Petri nets and their application for fault diagnosis. Computers and Industrial Engineering, 2011, 60, 505-510.	6.3	60
17	Additive Manufacturing of Î³â€²-TiAl: Processing, Microstructure, and Properties. Advanced Engineering Materials, 2016, 18, 1208-1215.	3.5	58
18	Structural and mechanical characterization of custom design cranial implant created using additive manufacturing. Electronic Journal of Biotechnology, 2017, 29, 22-31.	2.2	58

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19	Fault Identification of Discrete Event Systems Modeled by Petri Nets With Unobservable Transitions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 333-345.	9.3	56
20	Modeling machining of particle-reinforced aluminum-based metal matrix composites using cohesive zone elements. International Journal of Advanced Manufacturing Technology, 2015, 78, 1171-1179.	3.0	55
21	Development of a virtual manufacturing assembly simulation system. Advances in Mechanical Engineering, 2016, 8, 168781401663982.	1.6	55
22	On the Investigation of Surface Integrity of Ti6Al4V ELI Using Si-Mixed Electric Discharge Machining. Materials, 2020, 13, 1549.	2.9	55
23	R-TNCES: A Novel Formalism for Reconfigurable Discrete Event Control Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 757-772.	9.3	53
24	Nonpure Petri Net Supervisors for Optimal Deadlock Control of Flexible Manufacturing Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 252-265.	9.3	50
25	Integration of CAD and a cutting tool selection system. Computers and Industrial Engineering, 2002, 42, 17-34.	6.3	49
26	Impact toughness and fractography of Alâ€“Siâ€“Cuâ€“Mg base alloys. Materials & Design, 2011, 32, 3900-3910.	5.1	45
27	Analysis of defects in clean fabrication process of friction stir welding. Transactions of Nonferrous Metals Society of China, 2017, 27, 1507-1516.	4.2	43
28	Experimental investigation and multi-objective optimization of Nd:YAG laser micro-channeling process of zirconia dental ceramic. International Journal of Advanced Manufacturing Technology, 2018, 98, 2213-2230.	3.0	43
29	The role of alloying additives and aging treatment on the impact behavior of 319 cast alloy. Materials & Design, 2011, 32, 3205-3220.	5.1	41
30	Improved Multi-Step Look-Ahead Control Policies for Automated Manufacturing Systems. IEEE Access, 2018, 6, 68824-68838.	4.2	41
31	Self-supporting overhang structures produced by additive manufacturing through electron beam melting. International Journal of Advanced Manufacturing Technology, 2019, 104, 2215-2232.	3.0	41
32	Mathematical model for determining machining parameters in multipass turning operations with constraints. International Journal of Production Research, 2001, 39, 3367-3376.	7.5	40
33	Multiobjective Optimization Approach for a Portable Development of Reconfigurable Real-Time Systems: From Specification to Implementation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 623-637.	9.3	40
34	An integrated retail space allocation and lot sizing models under vendor managed inventory and consignment stock arrangements. Computers and Industrial Engineering, 2013, 64, 45-55.	6.3	37
35	Effect of Energy Input on Microstructure and Mechanical Properties of Titanium Aluminide Alloy Fabricated by the Additive Manufacturing Process of Electron Beam Melting. Materials, 2017, 10, 211.	2.9	37
36	Feature-based design approach for integrated CAD and computer-aided inspection planning. International Journal of Advanced Manufacturing Technology, 2015, 76, 2159-2183.	3.0	34

#	Article	IF	Citations
37	Multi-response optimization of machining parameters in micro milling of alumina ceramics using Nd:YAG laser. Measurement: Journal of the International Measurement Confederation, 2017, 95, 181-192.	5.0	34
38	Investigation on the Effect of Tool Pin Profiles on Mechanical and Microstructural Properties of Friction Stir Butt and Scarf Welded Aluminium Alloy 6063. Metals, 2018, 8, 74.	2.3	33
39	Laser beam micro-milling (LBMM) of selected aerospace alloys. International Journal of Advanced Manufacturing Technology, 2016, 86, 2411-2431.	3.0	32
40	A comparative study on the customized design of mandibular reconstruction plates using finite element method. Advances in Mechanical Engineering, 2015, 7, 168781401559389.	1.6	31
41	Electron beam melting of titanium alloy and surface finish improvement through rotary ultrasonic machining. International Journal of Advanced Manufacturing Technology, 2017, 92, 3349-3361.	3.0	31
42	Evaluating Materialâ€™s Interaction in Wire Electrical Discharge Machining of Stainless Steel (304) for Simultaneous Optimization of Conflicting Responses. Materials, 2019, 12, 1940.	2.9	31
43	Enhance performance of inspection process on Coordinate Measuring Machine. Measurement: Journal of the International Measurement Confederation, 2014, 47, 78-91.	5.0	30
44	A comparison of laser beam machining of micro-channels under dry and wet mediums. International Journal of Advanced Manufacturing Technology, 2016, 83, 1539-1555.	3.0	28
45	An Investigation of the Micro-Electrical Discharge Machining of Nickel-Titanium Shape Memory Alloy Using Grey Relations Coupled with Principal Component Analysis. Metals, 2017, 7, 486.	2.3	28
46	Optimal robotic cell scheduling with controllers using mathematically based timed Petri nets. Information Sciences, 2016, 329, 638-648.	6.9	27
47	Single Controller-Based Colored Petri Nets for Deadlock Control in Automated Manufacturing Systems. Processes, 2020, 8, 21.	2.8	27
48	A study of micro-channel size and spatter dispersion for laser beam micro-milling. Materials and Manufacturing Processes, 2017, 32, 171-184.	4.7	26
49	Preliminary fabrication of thinâ€wall structure of Ti6Al4V for dental restoration by electron beam melting. Rapid Prototyping Journal, 2012, 18, 230-240.	3.2	25
50	Strict Minimal Siphon-Based Colored Petri Net Supervisor Synthesis for Automated Manufacturing Systems With Unreliable Resources. IEEE Access, 2020, 8, 22411-22424.	4.2	25
51	Effect of melt parameters on density and surface roughness in electron beam melting of gamma titanium aluminide alloy. Rapid Prototyping Journal, 2017, 23, 474-485.	3.2	24
52	Modeling the Effect of Different Support Structures in Electron Beam Melting of Titanium Alloy Using Finite Element Models. Metals, 2019, 9, 806.	2.3	24
53	Evaluation of CIM technologies in Saudi industries using AHP. International Journal of Advanced Manufacturing Technology, 2007, 34, 736-747.	3.0	23
54	A methodology for selection and evaluation of advanced manufacturing technologies. International Journal of Computer Integrated Manufacturing, 2008, 21, 778-789.	4.6	23

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55	The influence of surface topology on the quality of the point cloud data acquired with laser line scanning probe. Sensor Review, 2014, 34, 255-265.	1.8	23
56	Performance evaluation of vehicular platoons using Webots. IET Intelligent Transport Systems, 2017, 11, 441-449.	3.0	23
57	Structural Decomposition and Decentralized Control of Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1360-1369.	9.3	23
58	Predicting surface quality of Î³-TiAl produced by additive manufacturing process using response surface method. Journal of Mechanical Science and Technology, 2016, 30, 345-352.	1.5	22
59	Analysis and Control of Dynamic Reconfiguration Processes of Manufacturing Systems. IEEE Access, 2018, 6, 28028-28040.	4.2	22
60	Intelligent Colored Token Petri Nets for Modeling, Control, and Validation of Dynamic Changes in Reconfigurable Manufacturing Systems. Processes, 2020, 8, 358.	2.8	22
61	Laser beam micro-machining under water immersion. International Journal of Advanced Manufacturing Technology, 2016, 83, 1671-1681.	3.0	21
62	Optimal enforcement of liveness to flexible manufacturing systems modeled with Petri nets via transition-based controllers. Advances in Mechanical Engineering, 2018, 10, 168781401775070.	1.6	21
63	Design of Optimal Petri Net Supervisors for Flexible Manufacturing Systems via Weighted Inhibitor Arcs. Asian Journal of Control, 2018, 20, 511-530.	3.0	21
64	Effect of laser ablation parameters on surface improvement of electron beam melted parts. International Journal of Advanced Manufacturing Technology, 2016, 87, 1033-1044.	3.0	20
65	Laser micro-milling of bio-lox forte ceramic: An experimental analysis. Precision Engineering, 2018, 53, 179-193.	3.4	20
66	Manufacturability of Overhanging Holes Using Electron Beam Melting. Metals, 2018, 8, 397.	2.3	20
67	Computer Assisted Design and Analysis of Customized Porous Plate for Mandibular Reconstruction. Irbm, 2017, 38, 78-89.	5.6	19
68	Optimization of laser micro milling of alumina ceramic using radial basis functions and MOGA-II. International Journal of Advanced Manufacturing Technology, 2017, 91, 2017-2029.	3.0	19
69	Influence of fluidized sand bed heat treatment on the performance of Alâ€“Si cast alloys. Materials & Design, 2011, 32, 1177-1193.	5.1	18
70	Customized porous implants by additive manufacturing for zygomatic reconstruction. Biocybernetics and Biomedical Engineering, 2016, 36, 719-730.	5.9	18
71	In vitro wear, corrosion and biocompatibility of electron beam melted Î³-TiAl. Materials and Design, 2017, 133, 186-194.	7.0	18
72	An automatic and optimal selection of parts orientation in additive manufacturing. Rapid Prototyping Journal, 2018, 24, 698-708.	3.2	18

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73	Electron beam melting of gamma titanium aluminide and investigating the effect of EBM layer orientation on milling performance. International Journal of Advanced Manufacturing Technology, 2018, 96, 3093-3107.	3.0	18
74	Evaluation of Handheld Scanners for Automotive Applications. Applied Sciences (Switzerland), 2018, 8, 217.	2.5	18
75	Comparison and evaluation of multi-criteria supplier selection approaches: A case study. Advances in Mechanical Engineering, 2019, 11, 168781401882292.	1.6	18
76	Petri Net Model Based on Neural Network for Deadlock Control and Fault Detection and Treatment in Automated Manufacturing Systems. IEEE Access, 2020, 8, 103219-103235.	4.2	18
77	Robust deadlock control for automated manufacturing systems based on elementary siphon theory. Information Sciences, 2020, 510, 165-182.	6.9	17
78	Haptics Assisted Virtual Assembly. IFAC-PapersOnLine, 2015, 48, 100-105.	0.9	16
79	Corrosion Behavior in 3.5% NaCl Solutions of Î³-TiAl Processed by Electron Beam Melting Process. Metals, 2015, 5, 2289-2302.	2.3	16
80	Rapid Prototyping for Assembly Training and Validation. IFAC-PapersOnLine, 2015, 48, 412-417.	0.9	16
81	Micro-channels by Nd:YAG laser beam machining: fabrication, microstructures, and micro-hardness profiles. International Journal of Advanced Manufacturing Technology, 2016, 85, 1955-1968.	3.0	16
82	Design, finite element analysis (FEA), and fabrication of custom titanium alloy cranial implant using electron beam melting additive manufacturing. Advances in Production Engineering and Management, 2018, 13, 267-278.	1.2	16
83	Prediction and optimisation models for turning operations. International Journal of Production Research, 2008, 46, 4061-4081.	7.5	15
84	CAD Issues in Additive Manufacturing. , 2014, , 375-399.		15
85	Comparison and Evaluation of Deadlock Prevention Methods for Different Size Automated Manufacturing Systems. Mathematical Problems in Engineering, 2015, 2015, 1-19.	1.1	15
86	Development and Evaluation of the Virtual Prototype of the First Saudi Arabian-Designed Car. Computers, 2016, 5, 26.	3.3	15
87	Laser beam micro-milling of nickel alloy: dimensional variations and RSM optimization of laser parameters. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	15
88	Dynamic output feedback robust MPC for LPV systems subject to input saturation and bounded disturbance. International Journal of Control, Automation and Systems, 2017, 15, 976-985.	2.7	15
89	Comparative analysis of different digitization systems and selection of best alternative. Journal of Intelligent Manufacturing, 2019, 30, 2039-2067.	7.3	15
90	Inventory Routing Problem in Supply Chain of Perishable Products under Cost Uncertainty. Mathematics, 2020, 8, 382.	2.2	15

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91	Location Based Business Recommendation Using Spatial Demand. Sustainability, 2020, 12, 4124.	3.2	15
92	DESIGN AND IMPLEMENTATION OF DEADLOCK CONTROL FOR AUTOMATED MANUFACTURING SYSTEMS. South African Journal of Industrial Engineering, 2019, 30, .	0.2	15
93	Multi-objective optimization of oblique turning operations using finite element model and genetic algorithm. International Journal of Advanced Manufacturing Technology, 2014, 71, 593-603.	3.0	14
94	Extended Elementary Siphons and Their Application to Livenessâ€Enforcement of Generalized <scp>P</scp>etri Nets. Asian Journal of Control, 2014, 16, 1789-1810.	3.0	14
95	A Minimal Supervisory Structure to Optimally Enforce Liveness on Petri Net Models for Flexible Manufacturing Systems. IEEE Access, 2017, 5, 15731-15749.	4.2	14
96	Optimization of Nd:YAG laser for microchannels fabrication in alumina ceramic. Journal of Manufacturing Processes, 2019, 41, 148-158.	5.9	14
97	Automatic Supervisory Controller for Deadlock Control in Reconfigurable Manufacturing Systems with Dynamic Changes. Applied Sciences (Switzerland), 2020, 10, 5270.	2.5	14
98	Aging behavior of 359-type Alâ€“9%Siâ€“0.5%Mg casting alloys. Journal of Materials Science, 2012, 47, 1331-1338.	3.7	13
99	On modeling tool performance while machining aluminum-based metal matrix composites. International Journal of Advanced Manufacturing Technology, 2017, 92, 3519-3530.	3.0	13
100	Microstructural features of friction stir welded dissimilar Aluminium alloys AA2219-AA7475. Materials Research Express, 2018, 5, 056531.	1.6	13
101	Abrasive Waterjet Cutting of Clad Composite for Achieving Minimal Cut Quality Difference Between Constituent Layers. Metals, 2019, 9, 754.	2.3	13
102	Conducting and Biopolymer Based Electrospun Nanofiber Membranes for Wound Healing Applications. Current Nanoscience, 2016, 12, 220-227.	1.2	13
103	Optimal controllability of 2-composed siphons in a class of Petri nets. Electronics Letters, 2012, 48, 1535-1537.	1.0	12
104	Optimal MRP offsetting for assembly systems with stochastic lead times: POQ policy and service level constraint. Journal of Intelligent Manufacturing, 2012, 23, 2485-2495.	7.3	12
105	On Nonexistence of a Maximally Permissive Liveness-Enforcing Pure Net Supervisor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 29-37.	9.3	12
106	Confusion Diagnosis and Control of Discrete Event Systems Using Synchronized <scp>P</scp>etri Nets. Asian Journal of Control, 2013, 15, 1736-1751.	3.0	12
107	Accuracy of a reverse-engineered mould using contact and non-contact measurement techniques. International Journal of Computer Integrated Manufacturing, 2015, 28, 419-436.	4.6	12
108	Virtual Assembly of an Airplane Turbine Engine. IFAC-PapersOnLine, 2015, 48, 1726-1731.	0.9	12

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109	Evaluation of 3D printing approach for manual assembly training. International Journal of Industrial Ergonomics, 2018, 66, 57-62.	2.6	12
110	Evaluation of additive manufacturing technologies for dimensional and geometric accuracy. International Journal of Materials and Product Technology, 2019, 58, 129.	0.2	12
111	Laser-Machining of Microchannels in NiTi-Based Shape-Memory Alloys: Experimental Analysis and Process Optimization. Materials, 2020, 13, 2945.	2.9	12
112	Iterative Deadlock Control by Using Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1204-1218.	2.9	11
113	Virtual Ergonomic Assessment of First Saudi Arabian Designed Car in a Semi-Immersive Environment. Procedia Engineering, 2013, 64, 622-631.	1.2	11
114	Investigation of Micro-EDM Input Parameters on Various Outputs in Machining Ni-Ti Shape Memory Alloy Using Full Factorial Design. Advanced Materials Research, 0, 816-817, 173-179.	0.3	11
115	Optimizing parameters of freeform surface reconstruction using CMM. Measurement: Journal of the International Measurement Confederation, 2015, 64, 17-28.	5.0	11
116	Colored Resource-Oriented Petri Net Based Ladder Diagrams for PLC Implementation in Reconfigurable Manufacturing Systems. IEEE Access, 2020, 8, 217573-217591.	4.2	11
117	Automated Disassembly Sequence Prediction for Industry 4.0 Using Enhanced Genetic Algorithm. Computers, Materials and Continua, 2021, 69, 2531-2548.	1.9	11
118	Anomaly detection via a combination model in time series data. Applied Intelligence, 2021, 51, 4874-4887.	5.3	11
119	The Impact of Industry 4.0 Technologies on Manufacturing Strategies: Proposition of Technology-Integrated Selection. IEEE Access, 2022, 10, 21574-21583.	4.2	11
120	Optimal controllability of 3â€¢composed siphons in a class of Petri nets. Electronics Letters, 2013, 49, 697-699.	1.0	10
121	Patient specific mandibular implant for maxillofacial surgery using additive manufacturing. , 2015, , .		10
122	Deadlock and liveness characterization for a class of generalized Petri nets. Information Sciences, 2017, 420, 403-416.	6.9	10
123	An extraction algorithm for a set of elementary siphons based on mixed-integer programming. Journal of Systems Science and Systems Engineering, 2012, 21, 106-125.	1.6	9
124	i-DEMATEL method for integrated manufacturing technology selection. Journal of Manufacturing Technology Management, 2015, 26, 349-363.	6.4	9
125	A comparison study on the design of mirror and anatomy reconstruction technique in maxillofacial region. Technology and Health Care, 2016, 24, 377-389.	1.2	9
126	Novel dynamic CAPP system for hybrid additiveâ€“subtractiveâ€“inspection process. Rapid Prototyping Journal, 2018, 24, 988-1002.	3.2	9

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127	Evaluation of Support Structure Removability for Additively Manufactured Ti6Al4V Overhangs via Electron Beam Melting. Metals, 2019, 9, 1211.	2.3	9
128	Microstructural characterization and in-process traverse force during friction stir welding of austenitic stainless steel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1031-1043.	2.1	9
129	Patch and curvature specific estimation of efficient sampling scheme for complex surface inspection. International Journal of Advanced Manufacturing Technology, 2020, 110, 3407-3422.	3.0	9
130	Deadlock Control and Fault Detection and Treatment in Reconfigurable Manufacturing Systems Using Colored Resource-Oriented Petri Nets Based on Neural Network. IEEE Access, 2021, 9, 84932-84947.	4.2	9
131	Influence of Adaptive Gap Control Mechanism and Tool Electrodes on Machining Titanium (Ti-6Al-4V) Alloy in EDM Process. Materials, 2022, 15, 513.	2.9	9
132	Fabrication and Performance Analysis of 3D Inkjet Flexible Printed Touch Sensor Based on AgNP Electrode for Infotainment Display. Coatings, 2022, 12, 416.	2.6	9
133	Exploring Key Decisive Factors in Manufacturing Strategies in the Adoption of Industry 4.0 by Using the Fuzzy DEMATEL Method. Processes, 2022, 10, 987.	2.8	9
134	Optimization of Process Parameters of Rotary Ultrasonic Machining Based on Taguchis Method. Advanced Materials Research, 0, 748, 273-280.	0.3	8
135	Elementaryâ€Siphonâ€Based Control Policy for Flexible Manufacturing Systems with Partial Observability and Controllability of Transitions. Asian Journal of Control, 2015, 17, 327-342.	3.0	8
136	Chip morphology predictions while machining hardened tool steel using finite element and smoothed particles hydrodynamics methods. Journal of Zhejiang University: Science A, 2016, 17, 873-885.	2.4	8
137	A digital design methodology for surgical planning and fabrication of customized mandible implants. Rapid Prototyping Journal, 2017, 23, 101-109.	3.2	8
138	Resource Configuration Analysis for a Class of Petri Nets Based on Strongly Connected Characteristic Resource Subnets. IEEE Access, 2017, 5, 26376-26386.	4.2	8
139	Automatic supervisory control for the selfâ€healing of smart grids based on colored Petri nets. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 1612-1623.	1.4	8
140	Thermomechanical Simulations of Residual Stresses and Distortion in Electron Beam Melting with Experimental Validation for Ti-6Al-4V. Metals, 2020, 10, 1151.	2.3	8
141	Modelling the Mechanical Attributes (Roughness, Strength, and Hardness) of Al-alloy A356 during Sand Casting. Materials, 2020, 13, 598.	2.9	8
142	Development and Evaluation of a Virtual Assembly Trainer. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2560-2564.	0.3	7
143	Multi-sensor Integrated System for Reverse Engineering. Procedia Engineering, 2013, 64, 518-527.	1.2	7
144	Digital design and fabrication of customized mandible implant. , 2014, , .		7

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145	Virtual reality for manufacturing: A robotic cell case study. , 2015, , .		7
146	Multiobjective optimization of Nd:YAG direct laser writing of microchannels for microfluidic applications. International Journal of Advanced Manufacturing Technology, 2015, 81, 1363-1377.	3.0	7
147	Experimental investigation of micro-channels produced in aluminum alloy (AA 2024) through laser machining. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
148	Application of the sampling strategies in the inspection process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 565-575.	2.4	7
149	Semi-Immersive Virtual Turbine Engine Simulation System. International Journal of Turbo and Jet Engines, 2018, 35, 149-160.	0.7	7
150	On structural reduction of liveness-enforcing Petri net supervisors for flexible manufacturing systems: an algebraic approach. IMA Journal of Mathematical Control and Information, 2018, 35, 1217-1249.	1.7	7
151	Mechanical characterisation and quality index of A356-type aluminium castings heat treated using fluidised bed quenching. Materials Science and Technology, 2013, 29, 412-425.	1.6	6
152	Layout design optimization of dynamic environment flexible manufacturing systems. Advances in Mechanical Engineering, 2015, 7, 168781401558425.	1.6	6
153	Rotary ultrasonic drilling of Ti6Al4V: Effects of machining parameters and tool diameter. Advances in Mechanical Engineering, 2018, 10, 168781401775078.	1.6	6
154	Multi-objective optimization of support structures for metal additive manufacturing. International Journal of Advanced Manufacturing Technology, 2021, 116, 2613-2632.	3.0	6
155	Evaluation of deadlock control designs in automated manufacturing systems. , 2015, , .		5
156	An automatic fixture modeling system using search strategy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 2165-2179.	2.4	5
157	Assessment of finite element and smoothed particles hydrodynamics methods for modeling serrated chip formation in hardened steel. Advances in Mechanical Engineering, 2016, 8, 168781401665237.	1.6	5
158	Analysis of a multimachine flexible manufacturing cell using stochastic Petri nets. Advances in Mechanical Engineering, 2016, 8, 168781401668016.	1.6	5
159	Mining Resource Community and Resource Role Network From Event Logs. IEEE Access, 2018, 6, 77685-77694.	4.2	5
160	Microchannels Fabrication in Alumina Ceramic Using Direct Nd:YAG Laser Writing. Micromachines, 2018, 9, 371.	2.9	5
161	A systematic approach to parameter selection for CAD-virtual reality data translation using response surface methodology and MOGA-II. PLoS ONE, 2018, 13, e0197673.	2.5	5
162	Analysis and Realization of Sampling Strategy in Coordinate Metrology. Mathematical Problems in Engineering, 2019, 2019, 1-19.	1.1	5

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163	Multi-response optimization for Nimonic alloy miniature gear fabrication using wire electrical discharge machining. Advances in Mechanical Engineering, 2020, 12, 168781402096758.	1.6	5
164	3D modeling of tool wear and optimization in hard turning considering the effects of tool cutting edge and nose radii. International Journal of Advanced Manufacturing Technology, 2022, 118, 1919-1932.	3.0	5
165	Experimental Investigation of Dimensional Variation in Laser-machined Micro-channels produced in Titanium Alloy. Journal of Laser Micro Nanoengineering, 2016, 11, 210-226.	0.1	5
166	Investigation of support structure parameters and their affects during additive manufacturing of Ti6Al4V alloy via electron beam melting. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072098166.	1.1	5
167	Tabu Search Algorithm Based on Lower Bound and Exact Algorithm Solutions for Minimizing the Makespan in Non-Identical Parallel Machines Scheduling. Mathematical Problems in Engineering, 2021, 2021, 1-9.	1.1	5
168	Investigation of the Capacity of Underground Water Pumping Using Wind Energy in Dhahran. Arabian Journal for Science and Engineering, 2011, 36, 879-889.	1.1	4
169	GA Support System to Optimize the Sequence of Multi-level and Multi-tool Operations in CNC Machines. , 2013, , .		4
170	Multiwall Carbon Nanotube Coated with Conducting Polyaniline Nanocomposites for Quasi-Solid-State Dye-Sensitized Solar Cells. Journal of Chemistry, 2013, 2013, 1-5.	1.9	4
171	Computer-aided process planning in prismatic shape die components based on Standard for the Exchange of Product model data. Advances in Mechanical Engineering, 2015, 7, 168781401561982.	1.6	4
172	Developing a methodology for analysis and manufacturing of proximal interphalangeal (PIP) joint using rapid prototyping technique. Rapid Prototyping Journal, 2015, 21, 449-460.	3.2	4
173	Melt Processing and Characterization of Al-SiC Nanocomposite, Al, and Mg Foam Materials. Metals, 2016, 6, 110.	2.3	4
174	A Non-Invasive Sleep Analysis Approach Based on a Fuzzy Inference System and a Finite State Machine. IEEE Access, 2019, 7, 2664-2676.	4.2	4
175	Integrated system for automation of process, fixture and inspection planning. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	4
176	Design of cellular manufacturing systems with labor and tools consideration. , 2009, , .		3
177	Iterative optimization for frame-by-frame object pose tracking. Journal of Visual Communication and Image Representation, 2017, 44, 72-81.	2.8	3
178	A Multistep Look-Ahead Deadlock Avoidance Policy for Automated Manufacturing Systems. Discrete Dynamics in Nature and Society, 2017, 2017, 1-16.	0.9	3
179	A study on the effect of main process parameters of rotary ultrasonic machining for drilling BK7 glass. Advances in Mechanical Engineering, 2018, 10, 168781401775221.	1.6	3
180	Evolution of Computer-Aided Process Planning for Hybrid Additive/Subtractive Process. Advances in Materials Science and Engineering, 2020, 2020, 1-21.	1.8	3

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181	Path Planning and Setup Orientation for Automated Dimensional Inspection Using Coordinate Measuring Machines. Mathematical Problems in Engineering, 2020, 2020, 1-17.	1.1	3
182	Colored Resource-Oriented Petri Nets for Deadlock Control and Reliability Design of Automated Manufacturing Systems. IEEE Access, 2021, 9, 125616-125627.	4.2	3
183	Investigation the effect of electron beam melting parameters on overhang structure deformation. Materials Technology, 2022, 37, 1586-1593.	3.0	3
184	A Novel Control-Theory-Based Approach to Scheduling of High-Throughput Screening System for Enzymatic Assay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7667-7678.	9.3	3
185	An Improved Synthesis Method Based on ILPP and Colored Petri Net for Liveness Enforcing Controller of Flexible Manufacturing Systems. IEEE Access, 2022, 10, 68570-68581.	4.2	3
186	Computer aided optimization of scheduling and machining parameters in job shop manufacturing systems. Production Planning and Control, 2002, 13, 401-406.	8.8	2
187	Simultaneous determination of the optimal process mean and cutting speed for a manufacturing process. Production Planning and Control, 2004, 15, 336-341.	8.8	2
188	Effect of rapid heating on quality assessment of 356 and 319 aluminium cast alloys using fluidised bed. International Journal of Cast Metals Research, 2012, 25, 129-143.	1.0	2
189	Effect of multi-temperature aging on the characterization of aluminum based castings heat treated using fluidized bed technique. Metals and Materials International, 2013, 19, 783-802.	3.4	2
190	Influence of Fluidized Bed Quenching on the Mechanical Properties and Quality Index of T6 Tempered B319.2-Type Aluminum Alloys. Journal of Materials Engineering and Performance, 2013, 22, 3476-3489.	2.5	2
191	A versatile supervisor with one monitor based on macro-tokens. IMA Journal of Mathematical Control and Information, 2014, 31, 245-256.	1.7	2
192	Equivalent Transformation of Nonlinear Constraints to Linear Constraints in Petri Nets. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	2
193	On multistage approach for flexible routing in flexible manufacturing systems. Advances in Mechanical Engineering, 2016, 8, 168781401665901.	1.6	2
194	Confusion diagnosis and avoidance of discrete event systems using supervisory control. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, 49-62.	1.4	2
195	Confusion avoidance for discrete event systems by P/E constraints and supervisory control. IMA Journal of Mathematical Control and Information, 2016, 33, 309-332.	1.7	2
196	A Model for Maintenance Planning and Process Quality Control Optimization Based on EWMA and CUSUM Control Charts. Transactions of Famena, 2021, 45, 95-116.	0.6	2
197	A New MINLP Continuous Time Formulation for Scheduling Optimization of Oil Refinery with Unreliable CDUs. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	2
198	Evaluation of the Support Structure Removal Techniques for Additively Manufactured Ti6AL4V Parts. Advances in Materials Science and Engineering, 2022, 2022, 1-8.	1.8	2

#	Article	IF	Citations
199	Evaluation of advance manufacturing technologies using concord and discord indices. International Journal of Computer Integrated Manufacturing, 2011, 24, 328-337.	4.6	1
200	Open Problems in Deadlock Control for Flexible Manufacturing Systems by Using Petri Nets. Applied Mechanics and Materials, 2011, 88-89, 134-141.	0.2	1
201	Liveness Analysis of Petri Nets Using Siphons and Mathematical Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 383-387.	0.4	1
202	On Computation Reduction of Liveness-Enforcing Supervisors. IEEE Access, 2017, 5, 14775-14786.	4.2	1
203	Improved frame-by-frame object pose tracking in complex environments. Multimedia Tools and Applications, 2018, 77, 24983-25004.	3.9	1
204	Effect of Laser Beam Conditioning on Fabrication of Micro-Channels in Al₂O₃ Bio-ceramics Using Nd:YAG Laser. IOP Conference Series: Materials Science and Engineering, 2019, 521, 012001.	0.6	1
205	On Parametrizing Feasible Reconfigurable Systems Under Real-Time, Energy, and Resource Sharing Constraints. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1492-1504.	5.2	1
206	Intelligent fixture planning system for prismatic parts. , 2013, , 219-224.		1
207	Metaheuristics for optimizing unrelated parallel machines scheduling with unreliable resources to minimize makespan. Advances in Mechanical Engineering, 2022, 14, 168781322210970.	1.6	1
208	Optimization of perforated support structures for electron beam additive manufacturing. International Journal of Advanced Manufacturing Technology, 0, , .	3.0	1
209	A New Genetic Algorithm for Designing Cellular Manufacturing Systems with Labor and Tools Issues. Applied Mechanics and Materials, 0, 110-116, 4307-4314.	0.2	0
210	Application of neural network technique to planetary milling process for the production of ZnO nanopowders. , 2011, , .		0
211	A Semi-Integration System of CAD and Inspection Planning of Standard Manufactured Features. Engineering and Management Innovation, 2013, , 109-140.	0.1	0
212	Corrections to â€œNonpure Petri Net Supervisors for Optimal Deadlock Control of Flexible Manufacturing Systemsâ€•[Mar 13 252-265]. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 804-804.	9.3	0
213	Confusion Control in Generalized Petri Nets Using Synchronized Events. Mathematical Problems in Engineering, 2015, 2015, 1-23.	1.1	0
214	Finite element analysis of finger joint implant: A review. , 2015, , .		0
215	Reclamation of steel shots by acid leaching for powder metallurgy applications. Advances in Mechanical Engineering, 2019, 11, 168781401986696.	1.6	0
216	Performance assessment of fused deposition modeling process. Journal of Engineering Research, 2021, 9, .	0.7	0

#	Article	IF	Citations
217	Set up planning for automatic generation of inspection plan. , 2013, , 215-218.		0
218	AN AUTOMATIC FIXTURE DESIGN SYSTEM FOR CREATING PRISMATIC PARTS. South African Journal of Industrial Engineering, 2014, 25, .	0.2	0
219	Assessment of Direct Laser Writing using Nd YAG Lasers for Microfluidic Applications. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2015, 5, 44-58.	0.4	0
220	Experimental Investigation of Dimensional Variation in Laser-machined Micro-channels produced in Titanium Alloy. Journal of Laser Micro Nanoengineering, 2016, 11, 405.	0.1	0
221	Mathematical Modeling and Multi-objective Optimization. Advanced Structured Materials, 2017, , 201-240.	0.5	0
222	Dry Laser Beam Micro-milling (DLBMM) of Aerospace Alloys. Advanced Structured Materials, 2017, , 133-169.	0.5	0
223	Validationsâ€"Modeling and Optimization. Advanced Structured Materials, 2017, , 241-258.	0.5	0
224	Under-Water Laser Beam Micro-milling (UWLBMM) of Aerospace Alloys. Advanced Structured Materials, 2017, , 101-132.	0.5	0
225	Dimensional Variations in DLBMM of Aerospace Alloys. Advanced Structured Materials, 2017, , 171-199.	0.5	0
226	Conclusions and Future Work Recommendations. Advanced Structured Materials, 2017, , 259-264.	0.5	0
227	Mechanical and microstructural characterization of Ti-SiC reinforced AA5083 surface composites fabricated via friction stir process. Materials Research Express, 2021, 8, 126523.	1.6	0