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عزام صباح حميد احمد البندقي

Professor

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EDUCATION

Bachelor's Degree (1999-06-10)
Manufacturing Engineering
University of Technology

Master's Degree (2010-12-10)
CAM
Jadavpur University

Doctorate (2016-02-23)
Manufacturing Engineering
University of Technology

RESEARCH METRICS

h-index (Scopus)	6
h-index (GS)	6
Citations (Scopus)	114
Citations (GS)	153
Documents (Scopus)	17
Documents (GS)	24

ACADEMIC TITLES

2025-03-23 **Professor**

PUBLICATIONS (28)

1. **Micro-ECDM performance analysis and hybrid-optimization during micro-channel generation on silica using HGAPSO-ANN**
Journal of Micromanufacturing | 2026

2. **ANOVA-based Analysis and Optimization of Micro-performances during Blend Hole Generation on Glass**
Experimental Design of Bio-Inspired Algorithms for Optimization Problems in ..., 2026 | 2026

3. **Quantum Particle Swarm Optimization of ECDM Performances for Circuit Input Parameters During Micro-Machining of Silicon-Wafer**
Journal of Advanced Manufacturing Systems 25 (02), 221-235, 2026 | 2026

4. **Experimental investigations for improvement the mechanical characteristics of advanced aluminium-epoxy material**
AIP Conference Proceedings 3397 (1), 090029, 2026 | 2026

5. **Experimental Analysis and Hybrid-Optimization of Micro-ECDM Process Parameters to Enhance Micro-Machining Performances of Silica by Gaussian-Quantum-PSO**
Journal of Advanced Manufacturing Systems 24 (01), 125-141, 2025 | 2025 | Cited: 2

6. **Hybrid evolutionary algorithms (hybrid-GAPSO) based optimization of MIG welding process**
Journal of Micromanufacturing, 25165984241290900, 2024 | 2024 | Cited: 5

7. **Micro-ECDM performances analysis using fuzzy logic and ANFIS during micro-channel fabrication on silica glass**
Journal of Advanced Manufacturing Systems 23 (02), 391-407, 2024 | 2024 | Cited: 11

8. **Measurement from the residual stresses on magnetic abrasive finishing process by utilizing steel sheet 201**
Multiscale and Multidisciplinary Modeling, Experiments and Design | 2024

9. **Neural network (NN) based modelling and Multi-objective Swarm Algorithm (MSA) optimization of CNC milling operation**
Materials Today: Proceedings, 2023 | 2023 | Cited: 19

10. **Neural network (nn)-based rsm-pso multiresponse parametric optimization of the electro chemical discharge micromachining process during microchannel cutting on silica glass**
Journal of Advanced Manufacturing Systems 21 (04), 869-897, 2022 | 2022 | Cited: 19

11. **Flow Instability of a Liquid Through a Small-Scale Channel During a Flow Evaporation**
Wasit Journal of Engineering Sciences 10 (2), 169-184, 2022 | 2022

12. **Experimental Analysis of Machining Performances of CNC Milling Using AlTiN Coated Tungsten Carbide Tool (WC)**
Journal of Mines, Metals and Fuels 70 (12), 665-674, 2022 | 2022 | Cited: 1

13. **The Effect of Using a Device Designed to Rehabilitate Stroke Patients and Increase Their Motor Abilities**
Annals of Tropical Medicine And Public Health 24 (2), 242-35, 2021 | 2021

14. **A comparison study for the Different Geometry of Tools used in the FSW**
IOP Conference Series: Materials Science and Engineering 1090 (1), 012132, 2021 | 2021

15. **Newtonian and non-newtonian blood rheology inside a model of stenosis. CFD Letters, 12 (11), 27–36**
2020 | Cited: 5

16. **Experimental investigation for multi characteristics optimization of MIG welding on 304 stainless steel using desirability function analysis**
List of Special Numbers published (1986-2019) 1986 (3), 144, 2020 | 2020 | Cited: 5

17. **A new audio signal-based methodology for fault detection in gears**
Journal of Mechanical Engineering Research and Developments | 2020 | Cited: 1

18. **Improvement of CNC Lathe Performances by Tungsten-Carbide Tool Using Desirability Function Analysis for Fabrication of Miniature Component**
Materials Science Forum 1002, 3-11, 2020 | 2020 | Cited: 2

19. **Experimental investigation for improvement of micro-machining performances of μ-ECDM process**
Materials Today: Proceedings 27 (1), 620_626, 2020 | 2020 | Cited: 33

20. **Newtonian and Non-Newtonian Blood Rheology Inside a Model of Stenosis**
CFD Letters 12 (11), 27-36, 2020 | 2020 | Cited: 27

21. **Optimization of Process Parameters of Friction Stir Welding by Taguchi Method**
Wasit Journal of Engineering Sciences 7 (1), 17-23, 2019 | 2019 | Cited: 4

22. **Transient response of rotor system under different startup speed profiles**
Journal of Mechanical Engineering Research and Developments | 2019 | Cited: 5

23. **Influence of powder mixed EDM on the surface hardness of die steel**
IOP Conference Series: Materials Science and Engineering 518 (3), 032030, 2019 | 2019 | Cited: 7

24. **Influence of Powder Mixed EDM on the Surface Hardness of Die steel Influence of Powder Mixed EDM on the Surface Hardness of Die steel**
IOP, 2019 | 2019

25. **Effect of Powder Concentration in PMEDM on surface Roughness for Differnt Diesteel Types**
International journal of Current Engineering and Technology 5 (No.5), 3324-3329, 2015 | 2015 | Cited: 6

26. **Effect of Powder Concentration in PMEDM on Machining Performance for Different Die Steel Types**
Engineering and Technology Journal 33 (part A), 2174-2186, 2015 | 2015 | Cited: 6

27. **Effect of Powder Concentration in PMEDM on Surface Roughness for Different Die steel Types**
International Journal of Current Engineering and Technology | 2015

28. **Selection of Loom Speed through Computer Aided Process Modeling**
2010