

Farouk Omar Hamdoon

فاروق عمر حمدون

Professor

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EDUCATION

(19-10-2014) دكتوراه

Applied Mechanics

University of Technology

RESEARCH METRICS

h-index (Scopus)	3
h-index (GS)	5
Citations (Scopus)	75
Citations (GS)	100
Documents (Scopus)	11
Documents (GS)	17

PATENTS

- Development of an electric elevator using tanks and counterweights

RESEARCH INTERESTS

- Dynamics of structures, Dynamics of rotating machines, Composite materials

ACADEMIC TITLES

2024-07-30 **Professor**

TEACHING EXPERIENCE

Professor

Wasit University

2005-12 - Present

COURSES

- **Mechanical Vibrations** (ME0055)

ADMINISTRATIVE POSITIONS

2015-01-01 - 2016-01-01 **Undergraduate studies coordinator**

2016-01-01 - 2020-02-02 **Postgraduate studies coordinator**

PUBLICATIONS (20)

1. **Mechanical strength and vibration - Damping characteristics of 2D and 3D glass woven composites with graphene nanoparticles**
   Journal of Composite Materials | 2026 | Cited: 1
2. **Improving The Mechanical and Electrical Performance Of Composite Laminates By Including Nano-particles**
   Wasit Journal of Engineering Sciences 13 (2), 14-36, 2025 | 2025
3. **Improving The Mechanical and Electrical Performance Of Composite Laminates By Including Nano-particles: Review Article**
   Wasit Journal of Engineering Sciences | 2025
4. **Compressive properties of a modified re-entrant chiral auxetic structure (MRCA) under uniaxial quasi-static loading**
   Smart Materials and Structures 33 (5), 055028, 2024 | 2024 | Cited: 45
5. **Effect of fluctuated flow on horizontal axis wind turbines at various tip speed ratios**
   AIP Conference Proceedings 2665 (1), 040008, 2023 | 2023
6. **Numerical investigations of two vibrating cylinders in uniform flow using overset mesh**
   Curved and Layered Structures 10 (1), 20220208, 2023 | 2023 | Cited: 3
7. **An overset mesh approach for a vibrating cylinder in uniform flow**
   Curved Layer Struct 9 (1), 396-402, 2022 | 2022 | Cited: 5
8. **Estimation the Natural Frequencies of a Cracked Shaft Based on Finite Element Modeling and Artificial Neural Network**
   international journal on advanced science engineering information technology 10, 2020 | 2020 | Cited: 18
9. **A new audio signal-based methodology for fault detection in gears**
   Journal of Mechanical Engineering Research and Developments | 2020 | Cited: 1

10. **A new audio signalbased methodology for fault detection in gears**
J Mech Eng Res Dev 43, 12-21, 2020 | 2020 | Cited: 1

11. **Simulation of active suspension system for half vehicle model under different road profile**
University of Thi-Qar Journal for Engineering Sciences 10 (1), 13-17, 2019 | 2019 | Cited: 4

12. **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

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

14. **Effect of temperature gradients on critical speeds of rotating shafts**
2018 International Conference on Advance of Sustainable Engineering and its ..., 2018 | 2018 | Cited: 2

15. **Vibration Based-Crack Detection in Simplified Wind Turbine Blades Using Artificial Neural Networks**
Engineering and Technology Journal 32 (8), 2056-2069, 2014 | 2014

16. **Time Domain Simulation of Wind Shear and Tower Shadow in Wind Turbines**
Engineering and Technology Journal 32 (4), 873-885, 2014 | 2014

17. **Aeroelastic behavior of a wind turbine blade by a fluid-structure interaction analysis**
Al-Khwarizmi Engineering Journal 9 (3), 15-25, 2013 | 2013 | Cited: 4

18. **Transient response of rotor system under different startup speed profiles**
Education 2015, 2012 | 2012 | Cited: 5

19. **Crack Identification in a Cantilever Beam with an Open Crack**
Journal of Engineering 16 (2), 2010 | 2010

20. **Application of a Finite Element Package for Modeling Rotating Machinery Vibrations**
uotechnology. edu. iq, 2009 | 2009 | Cited: 7