



Ali Elgazzar

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WeChat QR code

ABOUT MYSELF

PhD candidate at Harbin Institute of Technology (China) and assistant lecturer at Benha University (Egypt).

WORK EXPERIENCE

Mechanical Engineering Department, Shoubra Faculty of Engineering, Benha University

Assistant Lecturer – 08/2011 – Current

Teaching courses: Mechanics of material, Inventory control policy, Project management, Theory of metal cutting, Theory of metal forming, Theory of machines, Mechanical design, Stress analysis, Automatic control, Fracture and fatigue.

EDUCATION AND TRAINING

09/2019 – Current

PhD Candidate at School of Materials Science and Engineering, Harbin Institute of Technology, China. Thesis “Fabrication, microstructural tailoring and properties of modified Ti(C,N)-based cermet cutting tool materials”

2012 – 2017 MSc. in Materials Science

Shoubra Faculty of Engineering- Benha University, Cairo.

Thesis “Effect of Cooling Slope Casting Process Parameters on The Thixotropic Microstructure of Semisolid Aluminum Alloys”

08/2006 – 07/2011 Bachelor of science

Benha University - Shoubra Faculty of Engineering

Mechanical Engineering department (Production and design) & Cumulative Grade: V.good with Honors (83.63%) (Rank: 2 nd)

LIST OF PUBLICATIONS

2025

- [Unveiling the effect of Y₂O₃ addition on the microstructure and tribological performance of Ti\(C,N\)-based cermets](#)
Ali Elgazzar, Jiahu Ouyang*, Yujin Wang, Lei Chen, Ceramics International 2025, IF=5.6, Q1
- [Optimizing the La₂O₃ concentration for enhanced thermal and wear resistance of Ti\(C,N\)-based cermets](#)
Ali Elgazzar, Jiahu Ouyang*, Yujin Wang, Lei Chen, Int. J. Refract. Met. Hard Mater. 2025, IF=4.6, Q1.
- Role of silicon nitride in enhancing the frictional and wear resistance properties of Ti(C,N)-based cermets
Ali Elgazzar, Jiahu Ouyang*, Yujin Wang, Lei Chen, Journal of Alloys and Compounds (To be submitted)

2024

- [Effect of Si₃N₄ Additive on Microstructure and Mechanical Properties of Ti\(C,N\)-Based Cermet Cutting Tools](#)
Ali Elgazzar, Jiahu Ouyang*, Yujin Wang, Yaming Wang, Materials 2024, 17, 2586, IF=3.1, Q1.

2023

- [A Critical Review of High-Temperature Tribology and Cutting Performance of Cermet and Ceramic Tool Materials](#)
Ali Elgazzar, Jiahu Ouyang*, Yujin Wang, Yaming Wang, Lubricants 2023, 11, 122, IF=3.1, Q2
- [Effect of pouring temperature, mould and slope plate materials on the microstructural characteristics of a356 aluminum alloy](#)
A. Elgazzar, S. S. Mohmmad, A. Attia, T.S. Mahmoud, E.Y. El-Kady, " Engineering and Scientific Research Journal, 2017.

RECOMMENDATIONS

1- Jiahu Ouyang, PhD supervisor

Jiahu Ouyang is a full professor of materials science, Harbin Institute of Technology (HIT).

Email: ouyangjh@hit.edu.cn

2- Tamer Samir, MSc supervisor

Tamer Samir is a full professor of mechanical engineering, Benha Univerisuty.

Email: tamer.abdelmagid@feng.bu.edu.eg

3- Samah Samir, MSc supervisor

Samah Samir is a full professor of mechanical engineering, Benha Univerisuty.

Email: samah.samir@feng.bu.edu.eg

Areas of research

Ceramic matrix Composite, Finite element modeling (FEM), Tribology study for ceramic parts, Cermets and Cemented Carbide, Thixoforming, Casting, Metal Forming and Metal Cutting

Honors and awards

Graduation with Honors BSc degree& Winner of the best website of Benha University Staff Competition "October 2017"

Job-related skills

Excellent command of Student dealing & High ability to deliver information to student & Very good in scientific research

Communication and interpersonal skills

- 1- Volunteer in RESALA Charity Association & Alshareyah association for Orphans Sponsorship.
- 2- Member in ASME-SSCU. (American society of Mechanical Engineers-Student section Cairo Uni.)
" Program design officer 2011, Setting programs and schedules for ASME SSCU events".