

Contact Information				
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				ORIC ID: https://orcid.org/0000-0002-3028-4054 research gate https://www.researchgate.net/profile/Maher-Rashad-2 Google scholar Maher Rashad - Google الباحث العلمى من
Education/ Academic qualifications (start with your most recent education first)				
Year	School / University	Specialization	Degree	
2022	Tanta University	Mechanical Engineering (Production Engineering)	Assoc. Prof	
2015	Tanta University	Mechanical Engineering (Production Engineering)	Ph.D.	
2010	Tanta University	Mechanical Engineering (Production Engineering)	M.Sc.	
2004	Tanta University	Mechanical Power Engineering	B.Sc. (Excellent with Honor Degree).	
Academic Employment History (start with your most recent education first)				
From:	To:	University / Organization	Title of Position	
5/2022	Till now	Horus University – Faculty of Engineering	Assoc. Prof	
2015	5/2022	Tanta University – Faculty of Engineering	Assistant Prof	
2010	2015	Tanta University – Faculty of Engineering	Assistant lecturer	
2005	2010	Tanta University – Faculty of Engineering	Demonstrator	
2004	2005	Tanta University – Faculty of Engineering	Engineer	
Administrative Positions:				
From:	To:	University / Organization	Title of Position	
1/10/2022	Till now	Faculty of Engineering - Horus University	Chair of the Mechatronics Department	
2022	Till now	Faculty of	Member of the Controls Follow-up	

		Engineering - Horus University	Committee
2023/9	Till now	Faculty of Engineering - Horus University	Member of the Committee Preparing the Syllabus of Postgraduate Student
2022	Till now	Faculty of Engineering - Horus University	Member of the Supreme Committee to follow up on ISO accreditation
2022	Till now	Horus University	Member of the Research Plan Committee of Horus University
2022	Till now	Faculty of Engineering - Horus University	Head of Student and Graduate Standards at the Quality Assurance Unit
7/2022	30/9/2022	Faculty of Engineering - Horus University	Acting Head of Communications and Electronics Engineering Department
2/2022	Till now	Faculty of Engineering - Horus University	Manager of Occupational Safety and Health Unit
6/2020	30/11/2021	Tanta University	Chairman of the Higher Committee for Lifts in Tanta University Hospitals and Colleges
4/2018	30/11/2021	Tanta University	Manger of Scientific and Medical Equipment Maintenance Center
9/2019	30/11/2021	Faculty of Engineering - Tanta University	Director of the production and maintenance workshops unit
5/2016	30/11/2021	Faculty of Engineering - Tanta University	Director of Alumni Website
10/2016	10/2017	Faculty of Engineering - Tanta University	Director of Community participation In quality assurance unit
4/2015	9/2019	Faculty of Engineering - Tanta University	Vice manger of the production and maintenance workshops unit

Teaching Experience (Courses, Language, Higher Education Only)

I studied the following courses:

1. Engineering drawing
2. Mechanical drawing
3. Engineering materials

4. Production engineering
5. Testing and properties of material
6. Stress analysis
7. Manufacturing Engineering
8. Design of machine elements
9. Metal casting
10. Machining technology
11. Production technology
12. Theory of metal forming and
13. Machine tools
14. Mechatronic systems.
15. Mechanical vibration

Publications:

- 1- Maher R. M. Salem et al, Manufacture of wood from rice straw 1 January 2010, Engineering Research Journal, Vol.33, No.1 , PP:39-46, DOI [10.21608/ERJM.2010.67303](https://doi.org/10.21608/ERJM.2010.67303)
- 2- Maher R. M. Salem et al, International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014, DOI: [10.14299/000000](https://doi.org/10.14299/000000)
- 3- Maher R. M. Salem et al, strain rate effect on deformation of pure Al in ECAP, Mansoura Engineering Journal, Vol. 40, issue 3, September 2015, DOI: [10.21608/BFEMU.2020.101477](https://doi.org/10.21608/BFEMU.2020.101477)
- 4- Maher R. M. Salem et al, Modeling solidification of grain-refined melts using the free growth model, 4th International Conference on Welding and Failure Analysis of Engineering Materials (wafa-2018), November 19-22, 2018, Aswan, Egypt.
- 5- Maher R. M. Salem et al, Effect of Cutting Parameters on Surface Residual Stresses in Dry Turning of AISI 1035 Alloy, journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE), (2019) 41:349. DOI: [10.1007/s40430-019-1846-0](https://doi.org/10.1007/s40430-019-1846-0)
- 6- Maher Rashad et al, Friction Stir Welding of Thermoplastic Materials, International Virtual Conference on Smart Advanced Material Science and Engineering Applications (IVCSAMSEA 2020), paper id ICSM-MEC-0021, December 2020.
- 7- Maher Rashad et al, Effect of copper oxide/cobalt oxide nanocomposite on phase change material for direct/indirect solar energy applications: Experimental investigation, Journal of Energy Storage, Volume 38, June 2021, 102526, <https://doi.org/10.1016/j.est.2021.102526>.

- 8- Maher Rashad et al, The effect of rubber powder additives on mechanical properties of polypropylene glass-fiber-reinforced composite, Mech. Sci., 12, 1–9, 2021, <https://doi.org/10.5194/ms-12-1-2021>.
- 9- Swellam W. Sharshir a , Maher Rashad et al, Improved thermo-economic performance of solar desalination via copper chips, nanofluid, and nano-based phase change material, Solar energy, Volume 224, August 2021, Pages 1313-1325 <https://doi.org/10.1016/j.solener.2021.06.085>
- 10- Swellam W. Sharshir, Maher Rashad et al, Augmented performance of tubular solar still integrated with cost-effective nano-based mushrooms, Solar energy, Volume 228, 1 November 2021, Pages 27-37, <https://doi.org/10.1016/j.solener.2021.09.034>
- 11- Mohamed A.E. Omer, Maher Rashad, Ammar H. Elsheikh, Ezzat A Showaib (2021). Friction Stir Welding of Thermoplastic Materials: Recent Advances and Progress. Welding in the World, 29 October 2021, <https://doi.org/10.1007/s40194-021-01178-0>
- 12- Maher Rashad Mohamed, Nader Nabil Zaafaran, A.E. Kabeel, (2021) The Optimum Rate of Strain for the Thermal and Mechanical Properties of Al 6030 Processed by ECAP, MEJ Mansoura Engineering journal. DOI: [10.21608/bfemu.2021.208215](https://doi.org/10.21608/bfemu.2021.208215)
- 13- Maher Rashad, Swellam W. Sharshir, et al, Improving the performance of tubular solar still integrated with drilled carbonized wood and carbon black thin film evaporation, Solar Energy, Volume 228,2022. <https://doi.org/10.1016/j.solener.2022.01.065>
- 14- Maher Rashad et al, (2022). Friction Stir Welding of Polycarbonate Butt-Joint:

Defects and Remedies, Journal of Engineering Research (ERJ) , Vol. 6, No. 2 July 2022. <https://dx.doi.org/10.21608/erjeng.2022.141069.1068>

15- Maher Rashad et al, Thermal energy storage using phase change materials in building applications: A review of the recent development, Energy & Buildings, Volume 285,2023. <https://doi.org/10.1016/j.enbuild.2023.112908>

16- Maher Rashad et al, Improvement of Mechanical Properties and Electrical Conductivity of 7075 Al Alloy using ECAP Process, Journal of Engineering Research (ERJ) , Vol. 7, No. 2 May 2023. [DOI: 10.21608/ERJENG.2023.208328.1176](https://doi.org/10.21608/ERJENG.2023.208328.1176)

17- Maher Rashad et al, Strengthening of Mechanical Properties and Electrical Conductivity Study on 6061 Al Alloy after ECAP Process, MEJ Mansoura Engineering Journal 49 (2024) pp.1-11 December, 2023. <https://doi.org/10.58491/2735-4202.3123>

18- Maher Rashad et al, Mechanical Properties of PLA Printed Samples in Different Printing Directions and Orientations Using Fused Filament Fabrication, Part 1: Methodology, International Conference on Intelligent Systems in Production Engineering and Maintenance, ISPEM 2023: Intelligent Systems in Production Engineering and Maintenance III pp 643–657. 27 September 2023. [DOI: 10.1007/978-3-031-44282-7_49](https://doi.org/10.1007/978-3-031-44282-7_49)

19- Maher Rashad et al, Mechanical Properties of PLA Printed Samples in Different Printing Directions and Orientations Using Fused Filament Fabrication, Part 2: Experimental Research, International Conference on Intelligent Systems in Production Engineering and Maintenance, ISPEM 2023:

Intelligent Systems in Production Engineering and Maintenance III pp 643–657. 27 September 2023. [DOI: 10.1007/978-3-031-44282-7_48](https://doi.org/10.1007/978-3-031-44282-7_48)

20- Maher Rashad et al, The Effect of Strain Rate on Electrical and Mechanical Characteristics of Pure Aluminum Using Equal Channel Angular Pressing (ECAP), Journal of Engineering Research (ERJ) , Vol. 7, No. 5 Nov.2023. [DOI: 10.21608/erjeng.2023.241762.1276](https://doi.org/10.21608/erjeng.2023.241762.1276)

21- Maher Rashad et al, A Review of Hybrid Humidification and Dehumidification Desalination Systems, Journal of Engineering Research (ERJ) , Vol. 7, No. 5 Nov.2023. [10.21608/ERJENG.2023.235477.1237](https://doi.org/10.21608/ERJENG.2023.235477.1237)

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:Scopus ID أو Scopus رابط

<https://www.scopus.com/authid/detail.uri?authorId=57210233968>

<https://orcid.org/0000-0002-3028-4054> :ORCID No.

:Google Scholar

<https://scholar.google.com/citations?user=ZPFO-5kAAAAJ&hl=ar>

:Web of Science Researcher ID أو Web of science (Clarivate) رابط

<https://www.webofscience.com/wos/author/record/JKH-5009-2023>

Other Relevant Experience

First: Engineering Consultancy:

Engineering Consultation and Research center, Faculty of Engineering, Tanta University

1. Supervising the process of renewing the ground floor at the Faculty of Pharmacy - Tanta University, 2021.
2. Technical report for 2 master tech machine of Leader Food Company, 2019.
3. An engineering report to approve a group of Tanta Motor Company products, such as (Agricultural trailers - Tanks ...), 2019.
4. An engineering report to review the design accounts of a gear box for the construction of a bridge on the Mansouriya Canal in Dakahlia, 2017.
5. The construction of the Medical Complex stores building in Saberby combos at Tanta University, 2018.
6. Supervising the Implementation of the International Teaching Hospital at Tanta University, 2018.
7. Supervising the Implementation of the Emergency Hospital pharmacy at Tanta University, 2018.
8. Evaluation report of the machines of Zahrat El Mahalla for weaving and dyeing, 2017.
9. An engineering report regarding the chassis of a heavy truck for the factory of Mamdouh Al-Sayed in Sekkt El-Mahalla, 2016.
10. Evaluation report of the machines of Zahrat El Mahalla for weaving and dyeing, 2016.

11. Estimated assessment of the work required for the Faculty of Medicine in the seventh floor, the Malaysian program and the Teaching Hospital, 2016.
12. An engineering report on issuing the required engineering drawings for three products of SFB Engineering Industries, 2016.
13. An engineering report from Tanta University Press and estimating the prices of machines, 2016.

Second: Arbitration in conferences

1. Member of the organization of the first job fair of the Faculty of Engineering, Horus University 2023
2. Member of the organization of the first annual conference of the Faculty of Engineering, Horus University 2023
3. Member and responsible for the bachelor's equivalency degree file for the Faculty of Engineering, Horus University 2022-2023
4. A member of the committee to select the ideal students at the Faculty of Engineering, 2020.
5. The Egyptian aviation and space center competition 2019 in Mansoura.
6. Member of the executive committee of the first exhibition of wooden products, faculty of engineering, Tanta university, 2019.
7. Member of the student union selection committee, 2019.
8. Participation in organizing the third edition of the Employment Forum for the Faculty of Engineering, Tanta University, 2019.
9. The International Conference and Exhibition (Egypt Invents 2018).
10. Arbitration of student projects in the Department of Mechatronics Engineering

- Faculty of Engineering, Mansoura University 1/30/2024

11. Arbitration of student projects in the Department of Medical Engineering -
Faculty of Engineering, Mansoura University 1/28/2024

Finally: Post-doctoral Training courses

1. Communication Skills from the international center for faculty and leadership development, Tanta University 2022.
2. Research Team Management from the international center for faculty and leadership development, Tanta University 2022.
3. A workshop on **How to Avoid Plagiarism** from the scientific research development unit at Tanta university, 24-1-2021.
4. A workshop on the **Creative Faculty Member** from the quality assurance unit at the faculty of engineering, Tanta university, 10-1-2021.
5. A workshop on the **Concepts of Quality Management and the ISO System** from the quality assurance unit at the faculty of engineering, Tanta university 29-12-2020
6. A workshop on **Competencies of Online Teaching** from the center for measurement and evaluation at Tanta university, 2020.
7. Participation in the **First Forum for Community Services** at Tanta university, 2018.
8. **International Publishing of Research Course** from the international center for faculty and leadership development, 2017.
9. Participation in the **Engineer and Labor Market Challenges Seminar** in faculty of engineering - Tanta university, 2016.

10. **Documentation and Archiving Procedures** from the quality assurance unit, faculty of engineering, Tanta University, 2016.

11. **University Administration Course** from the international center for faculty and leadership development, 2016.

12. **Credit Hour System** from the international center for faculty and leadership development, 2015.

13. **Use of Technology in Teaching** from the international center for faculty and leadership development, 2015.

Arbitration of scientific theses:

1- Member of the judging and discussion committee for the master's degree in engineering, specializing in (design and manufacturing engineering) by engineer Hamsa Youssef Fadel Alwan, Faculty of Engineering - Mansoura University. 19/11/2023.

2- Member of the judging and discussion committee for the master's degree in engineering, specializing in (design and manufacturing engineering) by engineer / Mahmoud Assem Ali Al-Desouki, Faculty of Engineering - Mansoura University. 7/2/2024.

Scientific Awards:

1- The University Award for Scientific Publishing for the year 2019 at Tanta University.

2- The University Award for Scientific Publishing for the year 2020 at Tanta University.

3- The University Award for Scientific Publishing for the year 2021 at Tanta

University.

4- The University Award for Scientific Publishing for the year 2022 at Tanta University.

5- The University Award for Scientific Publishing for the year 2023 at Tanta University.

6- Award for the best scientific research in 2022 and 2023 in a prestigious international journal, Solar Energy, which is classified as Q₁ and has an impact factor of 6.7.

SOLAR ENERGY JOURNAL BEST PAPER AWARD 2023



In the Subject Area
Solar Heating and Cooling, Buildings & Other Applications

Solar Energy Volume 233 (2022), pp. 504-514

Improving the performance of tubular solar still integrated with drilled carbonized wood and carbon black thin film evaporation

Swellam W Sharshir, AW Kandeal, Youssef M Ellakany, Ibrahim Maher, Ahmed Khalil, Ahmed Swidan, Gamal B Abdelaziz, Hany Koheil, Maher Rashad



President, ISES



Editor-in-Chief



Executive Publisher, Solar Energy