

Curriculum Vitae (CV)

Full Name : Amal Ebrahim Mohmed Ali Nassar

Personal Information:

Academic Rank: Full Professor

Department: Mechanical Engineering

Specialization: Mechatronics

Position: -

Google Scholar: <https://scholar.google.com.eg/citations?user=byP3ZcMAAAAJ&hl=en>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Mechanical Engineering	Shoubra, Banha University	2010
M.Sc.	Mechanical Engineering	Shoubra, Banha University	2004
B.Sc.	Mechatronics	Higher Technological Institute	2000

Academic Experience:

Institution:

Rank: Associated Professor Dates:

2017

Institution:

Rank: Research Assistant (PhD student)

Dates: 2010

Research interests:

1. Amal E. Mohamed N., M. Salah. A. Hamed, E. Mossa " Mechanical Behaviors of Aluminum Matrix Composites Reinforced with Ceramic Particles in Extrusion Simulation Experiments", Number E. R. J. – Shoubra Faculty of Engineering 8 January 2008.
2. Amal E. Nassar , Eman E. Mohamed N., " Design and Fabrication of a Wear Testing Machine". Leonardo Electronic Journal of Practices and Technologies. Issue 19, July-December 2011. ISSN 1583-1078 .p. 39-48.
3. Amal E. Nassar , Eman E. Mohamed N "Design of SMART Car", Universal Journal of Mechanical Engineering 1(1): 1-12, 2013, DOI: 10.13189/ ujme.2013.01010. U.S.A.
4. Amal E. Nassar , Eman E. Mohamed N" The Effect of Testing Temperature on Wear Resistance of Metals Reinforced with Ceramic Particle", Chemical and Materials Engineering, 1(2): 29-34, 2013 ,DOI: 10.13189/cme.2013.010201. U.S.A.
5. Amal E. Nassar, Eman E. Nassar" Study on Mechanical Properties of Epoxy Polymer Reinforced with Nano SiC particles" . Universal Journal of Engineering Science. Nano science and Nano engineering 1(2): 89-93, 2013, DOI: 10.13189/nn.2013.010201
6. Amal E. Nassar, Eman E. Nassar" Automatic Storage and Retrieval System "Journal of Mechanics & Industry Research, Sciknow Publications Ltd, JMDS 2014, 1(1):1-4 ,DOI: 10.12966/jmds.06.01.2014. U.S.A.
7. Amal E. Nassar, Eman E. Nassar " Design a Robotic Hand", Journal of Mechanics & Industry Research, Sciknow Publications Ltd, JMDS 2014, 1(1):5-11,DOI: 10.12966/jmds.06.01.2014. U.S.A.
8. Amal E. Nassar, Eman E. Nassar " The design of a low-cost device for the production of hydrogen", Leonardo Electronic Journal of Practices and Technologies ISSN 1583-107. Issue 25, July-December, 2014 p. 158-165. ROMANIA
9. Amal E. Nassar, Eman E. Nassar " Thermo and Mechanical Properties of Fine Silicon Carbide /Chopped Carbon Fiber Reinforced Epoxy Composites" , Universal Journal of Mechanical Engineering 2(9): 287-292, 2014 , DOI: 10.13189/ujme.2014.020903. U.S.A.
10. Amal E. Nassar, Eman E. Nassar " Effect of extrusion temperature on the machinability of Al alloy 6061 reinforced with SiC particles" Universal Journal of Materials Science 2(6): 105-110, 2014. U.S.A.
11. Amal E. Nassar, Eman E. Nassar" Corrosion behavior of some conventional stainless steels in electrolyzing process" Leonardo Electronic Journal of Practices and Technologies (LEJPT), Issue 27 (July-December), 2015, p120-130
12. Amal NASSAR, Eman NASSAR, Mona A YOUNIS "Effect of laser cutting parameters on surface roughness of stainless steel 307" Leonardo Electronic Journal of Practices and Technologies 2016. Vol.15 Issue 29, P127-136.
13. Eman Nassar, Amal Nassar "Corrosion behaviour of some conventional stainless steels at different temperatures in the electrolyzing process", Energy Procedia 2016, Elsevier, Vol. 93, P 102-107.

14. Amal E Nassar, Eman E Nassar “Numerical Predictions of the Mechanical Properties of A356-SiC Composites Fabricated by Powder Metallurgy”, Transactions of FAMENA 2017, Fakultet strojarstva i brodogradnje, Vol. 40
Issue 4, P 83-94.
15. Amal E Nassar, Eman E Nassar “Properties of aluminum matrix Nano composites prepared by powder metallurgy processing”, Journal of king Saud university-Engineering sciences 2017, Elsevier, Vol. 29, Issue 3, P 295-299
16. Amal NASSAR, Eman NASSAR, Mona A Younis ” A Novel Preparation Method of SiC Reinforced Aluminum Composite Through Vertical Rotatory Furnace” , Journal of The Institution of Engineers (India): Series D 2017, P 1-8, Springer India
17. Amal NASSAR, Eman NASSAR, Mona A Younis “New approach for optimizing friction stir welding in aluminium composites”, Leonardo Electronic Journal of Practices and Technologies. Issue 33, July-December 2018 p. 55-68.
18. Amal Nassar, Eman Nassar & Mona Younis “A novel design to external filament extruder for 3D printer” Australian Journal of Mechanical Engineering, 2019, Taylor & Francis group.
19. Amal E Nassar, Eman E Nassar “Effect of fiber orientation on the mechanical properties of multi layers laminate nanocomposites” Heliyon Journal 2020, Cellpress Published by Elsevier Ltd

Publications:

- Amal E. Nassar and Eman E. Nassar “Design of SMART Car”, LAP LAMBERT Academic Publishing , Germany . ISBN 3659463450, 2013.
- Amal E. Nassar and Eman E. Nassar “Design of A Low-cost Device for Hydrogen Production” ”, LAP LAMBERT Academic Publishing , Germany . ISBN 978-3-659-75888-1
- Book (chapter), Handbook of Ecomaterials, SpringerLink, 1st Edition, 2018.

Courses taught

- Engineering drawing
- Computer programing.
- Using computer to control in the experiments
- Smart sensors.
- Arduino .
- Robotics.
- Quality control.
- Data and information processing.