

CURRICULUM VITAE

Ali I.Al-Mosawi



1- Education :

B.S. in Materials Engr. Babylon University, IRAQ ,2000

M.Sc. in Materials Engr. Babylon University, IRAQ ,2003

2- Current job title: Lecturer

3- Positions/Employment

Technical Institute-Babylon, Mechanical Depart. January 2006 - May 2012

Technical Institute-Babylon, Machines Depart. May 2012 - yet

4- Researches :

1. *Effect of compacting pressure on microstructure and mechanical properties of Carbide cutting tools* , Powder metallurgy , 54(5) , 2011 .
2. *Flame retardancy enhancement of hybrid composite material by using inorganic retardants* , Materials Sciences and Applications, 2(8) , 2011 .
3. *Inhibiting pyrolysis process for fiber-reinforced composites by using flame retardants additions* , ICSTE 2011Conference , Kuala Lumpur, Malaysia , ASME Press ,2011 .
4. *Effect of shells powder on scorch and cure time of elastomer material*, International Journal of Engineering and Technology, 3(4), April, 2013.
5. *Evaluation flame retardancy of epoxy composite by using design of experiments* , Applied Mechanics and Materials , 186 , 2012 .
6. *Flammability behavior of composite mixed with retardant agents*, Applied Mechanics and Materials , 186 , 2012 .
7. *Increasing flammability resistance for aircrafts tires by using magnesium hydroxide* , Academic research international, 3(2), Sept. , 2012 .
8. *Experimental investigation in zinc borate effect on flammability characteristics of polymeric composite material* , Academic research international, 3(2), Sept. , 2012 .
9. *Flammability of araldite based composite mixed with inorganic retardants* , International Journal of Engineering Science and Technology (IJEST), 4(10) , Oct. , 2012
10. *Influence of retardant agent on flame spread through composite surface*, International Journal of Innovative Research in Engineering & Science, issue 1, volume 6 ,December 2012.

11. ***Formation hybrid flame retardant and its effect on thermal resistance of araldite resin composite***, Academic research international, 3(2), Sept. , 2012 .
12. ***Mechanical properties of plants - synthetic hybrid fibers composites***, Research Journal of Engineering Sciences, 1(3), Sept. ,2012.
13. ***Using ultrasonic sensor for blind and deaf persons combines voice alert and vibration properties***, Research Journal of Recent Sciences, 1(11), Nov. ,2012.
14. ***Study the effect of angle dorsiflexion on bending stress of prosthetic pylon***, International Journal of Engineering Science and Technology (IJEST), 4(12), December 2012.
15. ***Stress analysis of conical shell***, Academic research international, 3(3), Nov. , 2012.
16. ***Flame retardancy of structural composites***, International Journal of Innovative Research in Engineering & Science, issue 1, volume 6, December 2012.
17. ***Mechanical properties of composite material reinforcing by natural-synthetic fibers***, Academic research international, 3(3), Nov. , 2012.
18. ***The synergistic effect of hybrid flame retardants on pyrolysis behaviour of hybrid composite materials***, Journal of Engineering Science and Technology, 7(3), 2012.
19. ***Effect of variable fiber spacing on post-buckling of boron/epoxy fiber reinforced laminated composite plate***, Applied Mechanics and Materials, 245, 2013.
20. ***Development hybrid retardant agent and its effect on flammability resistance of composites*** , Research journal of chemical sciences , 3(1), 2013.
21. ***Flexural strength of fiber reinforced composite*** , International journal of enhanced research in science technology & engineering , 2(1), 2013.
22. ***Spectroscopic studies of polyester – carbon black composites***, Research Journal of Material Sciences, 1(2) ,2013.
23. ***Study the Efficiency of adsorption Leshman's Stain Dye on the surface of some metal oxides***, Research Journal of Engineering Sciences, 2(3), 2013.
24. ***Experimental approach to mechanical properties of natural rubber mixing with Calcium carbonate powder***, International Journal of Physical Sciences ,7(49), 2012.
25. ***Flammability Behavior of tires material after adding flame retardant agent***, International Journal of Engineering & Technology IJET-IJENS,13(2), 2013.
26. ***Experimental study of the effect of zinc borate on flame retardancy of carbon- Kevlar hybrid fibers reinforced composite materials***, Al-Qadisiya journal for engineering sciences, 1(1) , 2008 .
27. ***Improvement of mechanical properties of alloy steel type (40x) by using heat treatments*** , Al-Qadisiya journal for engineering sciences , special issue for 2nd conference of engineering college /Al-Qadisiya university , 2009 .
28. ***Mechanical properties of araldite matrix composites reinforced with hybrid carbon - Kevlar fibers***, Al-Qadisiya journal for engineering sciences , 3(1), 2010 .

29. ***Using of hybrid flame retardants to increase thermal erosion resistance for advanced composite materials***, Diyala Journal of Engineering Sciences, 1st Engineering Scientific Conference, College of Engineering –University of Diyala, 2010.
30. ***Hybrid fire retardants to increasing combusting resistance for fibers-reinforced composites***, International journal of chemistry, Vol. 41, 2011.
31. ***Reducing of flammability for polymeric composite material by using flame retardants coating***, Eng. & Tech. Journal, 29(11), 2011.
32. ***Geometrically nonlinear analysis of imperfect laminated composite plate with variable fiber spacing***, Al-Qadisiya journal for engineering sciences, 4(4), 2011.
33. ***Using of reinforcing by hybrid fibers to increase efficiency of unsaturated polyester resin (SIROPOL 8340-Pi) to resisting mechanical loads***, The Iraqi journal for mechanical and material engineering, Special Issue for 3rd conference of Engineering College/Babylon University, 2011.
34. ***Enhancement of flame resistance for aircrafts tires by using magnesium hydroxide***, Iraqi J. Polymers, Special Issue, 2011.
35. ***Effect of adding shells powder on rheological properties of natural rubber***, Iraqi J. Polymers, Special Issue, 2011.
36. ***Effect of physical additives of shells powder on mechanical properties of natural rubber***, Iraqi J. Polymers, Special Issue, 2011.
37. ***Thermal resistance of araldite resin composite mixed with hybrid retardants***, Iraqi J. of Polymers, 16(2), 2012.
38. ***Experimental study of fire retardancy of aircrafts tires by using inorganic fire retardants***, Proceedings of 1st conference of Lasers and Advanced Materials Engineering, University of Technology, 2012.
39. ***Reinforcing by Palms - Kevlar Hybrid Fibers and Effected on Mechanical Properties of Polymeric Composite Material***, Babylon University journal, 20 (1), 2012.
40. ***Theoretical evaluation to tensile strength of composite material by using Ansys program***, Babylon University journal, accepted for publishing, 2011.
41. ***Improvement of flame retardancy for hybrid composite material by using zinc borate***, The Iraqi journal for mechanical and material engineering, accepted for publishing, 2012.
42. ***Using of Ansys program to calculate the mechanical properties of advanced fibers reinforced composite***, The Iraqi journal for mechanical and material engineering, 12(4), 2012.
43. ***Effect of carburizing on fatigue strength***, 3rd Scientific International conference, technical college –Najaf, 2013.
44. ***Theoretical estimation to flexural strength of araldite composite used for manufacturing electrical circuits plates*** Academic research international, 3(3), Nov., 2012.

5- Books :

- 1- *Properties of Composite Materials Databook* ,LAP LAMBERT Academic Publishing ,2012 , ISBN: 3-24295 -659-3-978
- 2- *Flame Retardancy of Polymers* ,LAP LAMBERT Academic Publishing ,2012 , ISBN: 25531 -659 -3-978
- 3- *Composite Materials* ,LAP LAMBERT Academic Publishing ,2012, ISBN: 5-27625-659-3 -978
- 4- *Metals manufacturing processes*, Redwan publisher., 2013 , ISBN: 978-9957-76-113-1
- 5- *Manufacturing processes technology* ,Redwan publisher., 2012 , ISBN: 978-9957-76-178-3
- 6- *Rubber Technology* ,LAP LAMBERT Academic Publishing ,2013 , ISBN: 5-39310 -659-3-978

6- Conferences:

- 1- 3rd International Conference on Software Technology and Engineering (ICSTE 2011) , Kuala Lumpur, Malaysia ,2011.
- 2- International Conference on Optimization of Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace (OPTIROB 2012) ,Romania ,2012 .
- 3- 2nd International Science Congress (ISC 2012) ,India ,2012 .
- 4- International Conference on mechanical engineering ,robotics and aerospace (ICMERA 2012) ,Romania ,2012 .

7- Editorial Board and Membership:

1. American Journal of Materials Engineering and Technology .
2. International Journals of Engineering & Sciences (IJENS) .
3. International Journal of Technical and Research Applications (IJTRA) .

8- Reviewer:

1. Conference (ICMERA 2012) ,Romania .
2. Global Journals Inc. (USA) .
3. Journal of Natural Sciences (JNS) .
4. Topclass Journal of Agricultural Research .
5. Materials Sciences and Applications (MSA) .