

CURRICULUM VITAE

Ali I.Al-Mosawi

Education

Degree	Institution	Date Degree Granted
B.S. in Materials Engr.	Babylon University, IRAQ	2000
Ms.C. in Materials Engr.	Babylon University, IRAQ	2003

Positions/Employment

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

2.Researchs

- 1- *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 .
- 2- *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 .
- 3- *Mechanical properties of araldite matrix composites reinforced with hybrid carbon - Kevlar fibers*, Al-Qadisiya journal for engineering sciences , 3(1), 2010 .
- 4- *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.
- 5- *Hybrid fire retardants to increasing combusting resistance for fibers-reinforced composites*, International journal of chemistry, Vol. 41, 2011.
- 6- *Effect of compacting pressure on microstructure and mechanical properties of Carbide cutting tools* , Powder metallurgy , 54(5) , 2011 .
- 7- *Flame retardancy enhancement of hybrid composite material by using inorganic retardants* , Materials Sciences and Applications, 2(8) , 2011 .

- 8- ***Inhibiting pyrolysis process for fiber-reinforced composites by using flame retardants additions*** , ICSTE 2011Conference , Kuala Lumpur, Malaysia , ASME Press ,2011 .
- 9- ***Reducing of flammability for polymeric composite material by using flame retardants coating*** , Eng. & Tech. Journal , 29(11) , 2011 .
- 10- ***Geometrically nonlinear analysis of imperfect laminated composite plate with variable fiber spacing*** , Al-Qadisiya journal for engineering sciences , 4(4) , 2011 .
- 11- ***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 .
- 12- ***Effect of shells powder on scorch and cure time of elastomer material***, Iraqi J. Polymers, Special Issue ,2011.
- 13- ***Enhancement of flame resistance for aircrafts tires by using magnesium hydroxide***, Iraqi J. Polymers, Special Issue, 2011.
- 14- ***Effect of adding shells powder on rheological properties of natural rubber***, Iraqi J. Polymers, Special Issue, 2011.
- 15- ***Effect of physical additives of shells powder on mechanical properties of natural rubber***, Iraqi J. Polymers, Special Issue, 2011.
- 16- ***Thermal resistance of araldite resin composite mixed with hybrid retardants*** , Iraqi J. of Polymers ,16(2), 2012.
- 17- ***Evaluation flame retardancy of epoxy composite by using design of experiments*** , Applied Mechanics and Materials , 186 , 2012 .
- 18- ***Flammability behavior of composite mixed with retardant agents***, Applied Mechanics and Materials , 186 , 2012 .
- 19- ***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 .
- 20- ***Reinforcing by Palms - Kevlar Hybrid Fibers and Effected on Mechanical Properties of Polymeric Composite Material*** , Babylon University journal , 20 (1) , 2012 .
- 21- ***Increasing flammability resistance for aircrafts tires by using magnesium hydroxide*** , Academic research international, 3(2), Sept. , 2012 .
- 22- ***Theoretical evaluation to tensile strength of composite material by using Ansys program*** , Babylon University journal , accepted for publishing ,2011 .
- 23- ***Improvement of flame retardancy for hybrid composite material by using zinc borate*** ,The Iraqi journal for mechanical and material engineering , accepted for publishing ,2012 .
- 24- ***Using of Ansys program to calculate the mechanical properties of advanced fibers reinforced composite*** ,The Iraqi journal for mechanical and material engineering , accepted for publishing ,2012 .
- 25- ***Experimental investigation in zinc borate effect on flammability characteristics of polymeric composite material*** , Academic research international, 3(2), Sept. , 2012 .

- 26- ***Formation hybrid flame retardant and its effect on thermal resistance of araldite resin composite***, Academic research international, 3(2), Sept. , 2012 .
- 27- ***Mechanical properties of plants - synthetic hybrid fibers composites***, Research Journal of Engineering Sciences, 1(3), Sept. ,2012.
- 28- ***Using ultrasonic sensor for blind and deaf persons combines voice alert and vibration properties***, Research Journal of Recent Sciences, 1(11), Nov. ,2012.
- 29- ***Flammability of araldite based composite mixed with inorganic retardants*** , International Journal of Engineering Science and Technology (IJEST), 4(10) , Oct. , 2012
- 30- ***Influence of retardant agent on flame spread through composite surface***, International Journal of Innovative Research in Engineering & Science, issue 1, volume 6 ,December 2012.
- 31- ***Study the effect of angle dorsiflexion on bending stress of prosthetic pylon***, International Journal of Engineering Science and Technology (IJEST), 4(12), December 2012.
- 32- ***Stress analysis of conical shell***, Academic research international, 3(3), Nov. , 2012.
- 33- ***Flame retardancy of structural composites***, International Journal of Innovative Research in Engineering & Science, issue 1, volume 6, December 2012.
- 34- ***Mechanical properties of composite material reinforcing by natural-synthetic fibers***, Academic research international, 3(3), Nov. , 2012.
- 35- ***The synergistic effect of hybrid flame retardants on pyrolysis behaviour of hybrid composite materials***, Journal of Engineering Science and Technology, 7(3), 2012.
- 36- ***Effect of variable fiber spacing on post-buckling of boron/epoxy fiber reinforced laminated composite plate***, Applied Mechanics and Materials, 245, 2013.
- 37- ***Development hybrid retardant agent and its effect on flammability resistance of composites*** , Research journal of chemical sciences , 3(1), 2013.
- 38- ***Flexural strength of fiber reinforced composite*** , International journal of enhanced research in science technology & engineering , 2(1), 2013.
- 39- ***Effect of carburizing on fatigue strength***, 3rd Scientific International conference ,technical college –Najaf ,accepted for publishing , 2013.
- 40- ***Spectroscopic studies of polyester – carbon black composites***, 2nd International Science Congress (ISC-2012) Conference, India , 2013.
- 41- ***Study the Efficiency of adsorption Leshman's Stain Dye on the surface of some metal oxides***, 2nd International Science Congress (ISC-2012) Conference, India , 2013.
- 42- ***Increasing combusting resistance for advanced composites by using fire retardants***, 2nd International Science Congress (ISC-2012) Conference, India , 2013.

2.Books

1- Properties of Composite Materials Databook , LAP LAMBERT Academic Publishing ,2012 , ISBN: 978-3-659-24295-3

2- Flame Retardancy of Polymers ,LAP LAMBERT Academic Publishing ,2012 , ISBN:978-3-659-25531

3- Composite Materials ,LAP LAMBERT Academic Publishing ,2012 , ISBN:-5 978-3-659-27625

3.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 .

9- International Conference on mechanical engineering ,robotics and aerospace (ICMERA 2012) ,Romania ,2012 .