**Othman Y. Alothman**

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1. **Education**

* 1997 B.S., Chem. Eng. Dept., King Saud University, Riyadh, Saudi Arabia
* 2001 M.Sc., Chem. Eng. Dept., Clarkson University, Potsdam, NY, USA
* 2007 Ph.D., School of Materials, The University of Manchester, Manchester, UK

1. **Academic Experiences:**

* Teaching assistant, Chem. Eng. Dept., King Saud University, Jul. 1997-Dec.1998
* Assistant Professor, Chem. Eng. Dept., King Saud University, Aug. 2007- Aug. 2013
* Associate Professor, Chem. Eng. Dept., King Saud University, Sep. 2013- Oct. 2018
* Professor, Chem. Eng. Dept., King Saud University, Oct. 2018- Present

1. **Administrative Work**

* Vice Director, The Translation Center at KSU, 2010-2013.
* Vice Dean, Deanship of Graduate Studies, Saudi Electronic University, 2013-2014.
* Dean, Deanship of Graduate Studies, Saudi Electronic University, 2014-2018.

1. **Councils and Committees**

**King Saud University:**

* The International Scientific Twinship Program, member, 2009- 2010.
* The publishing committee - Translation Center, member, 2013-present.
* The publishing Committee - Scientific Council, member, 2012-2013.
* The Council of Translation Center, Member, 2010 – present.

**Saudi Electronic University**

* The University Council, member, 2014-2018
* The Council of Deanship of Graduate studies, Chairman, 2014-2018.
* The Scientific Council, member, 2014-2017.
* The Scientific Council, Secretary, 2017-present.
* Committee of student affairs, member, 2013-present.
* Council of Deanship of Scientific Research, Member, 2016

1. **Research Interests**

* Polymer processing: injection molding, extrusion, and film blowing
* Polymer blends, composites and nanocomposites, Natural Fiber additives
* polymer recycling: PE, PET and PC recycling
* polymer characterization: Thermal, rheological and mechanical properties

1. **Selected Publication**

**Journal Papers**

* Shafaat Ahmed Salahudeen, Rabeh H. Elleithy, Othman Alothman, S. M. AlZahrani, Comparative study of internal batch mixer such as cam, banbury and roller: Numerical simulation and experimental verification, Chemical Engineering Science 2011, 66(12): 2502-2511.
* Othman Alothman, Rabeh H. Elleithy, Shafaat Ahmed Salahudeen, , S. M. AlZahrani, Formation of vinylidene in Polypropylene / Ethylene Vinyl Acetate (PP/EVA) Blends during degradation, Polymer-Plastics Technology and Engineering 2012, 51: 540–547.
* Othman Y. Alothman, Processing and Characterization of High Density Polyethylene/Ethylene Vinyl Acetate Blends with Different VA Contents, Advances in Materials Science and Engineering 2012, Article ID 635693.
* Fawzi F Al-Jassir, H Fouad and Othaman Y Alothman, In vitro assessment of Function Graded (FG) artificial Hip joint stem in terms of bone/cement stresses: 3D Finite Element (FE) study, BioMedical Engineering OnLine 2013, 12:5.
* S. A. Salahudeen,O. AlOthman, R. H. Elleithy, S. M. Al-Zahrani, and A. R. B. Rahmat, Optimization of rotor speed based on stretching, efficiency, and viscous heating in nonintermeshing internal batch mixer: Simulation and experimental verification. J. Appl. Polym. Sci. 2013, 127: 2739–2748.
* H. Fouad, R. Elleithy, Othman Y. Alothman, Thermo-mechanical, wear and fracture behavior of high-density polyethylene/hydroxyapatite nano composite for biomedical applications: Effect of accelerated aging, Journal of Materials Science & Technology 2013, 29(6): 573-581.
* M. Jawaid, Othman Y. Alothman, M.T. Paridah, H.P.S. Abdul Khalil, Effect of Fiber Treatment on Dimensional Stability and Chemical Resistance Properties of Hybrid Composites. International Journal of Polymer Analysis and Characterization 2013, 18(8): p. 608-616.
* Othman Y Alothman, Fahad N Almajhdi, H Fouad, Effect of gamma radiation and accelerated aging on the mechanical and thermal behavior of HDPE/HA nano-composites for bone tissue regeneration. Biomedical Engineering OnLine 2013, 12 (95).
* Muhammad Abduh Tuasikal, Othman Y. Alothman, Mohammad Luqman, S. M. Al-Zahrani M. Jawaid, Influence of Natural and Accelerated Weathering on the Mechanical Properties of Low Density Polyethylene Films. International Journal of Polymer Analysis and Characterization 2014, 19(3), 189-203.
* M. Jawaid, Alothman Y. Othman, M. T. Paridah, H.P.S Abdul Khalil, Effect of fibre treatments on mechanical performance of epoxy hybrid composites, International Journal of Polymer Analysis and Characterization 2014, 19(1), 62-69.
* E. S. Zainudin, L. H. Yan, W. H. Haniffah, M. Jawaid, and Othman Y. Alothman, Effect of coir fiber loading on mechanical and morphological properties of oil palm fibers reinforced polypropylene composites. Polym Compos. 2014, 35(7), 1418–1425.
* M. T. Paridah,A. H. Juliana,Y. A. El-Shekeil, M. Jawaid, O. Y. Alothman, Measurement of mechanical and physical properties of particleboard by hybridization of kenaf with rubberwood particles, Measurement 2014, 56, 70-80.
* Othman Y. Alothman, H. Fouad, S M Al-Zahrani, Ayman Eshra, Mohammed Fayez Al Rez, S G Ansari, Thermal, creep-recovery and viscoelastic behavior of high density polyethylene/ hydroxyapatite nano particles for bone substitutes: effects of gamma radiation, BioMedical Engineering OnLine 2014, 13,125.
* Y. A. Elnakady, Mohammed F. Al Rez, H. Fouad, Sarah. Abuelreich, Ahmed M. Albarrag, Amer Mahmood, Othman Y. Alothman, T. Elsarnagawy, S. G. Ansari, Vascular Tissue Engineering Using Polycaprolactone Nanofibrous Scaffolds Fabricated via Electrospinning, Science of Advanced Materials 2015, 7 (3), 407-413.
* U. A. Samad, M. A. Alam, E. S. M. Sherif, O. Alothman, A. H. Seikh, S. Al-Zahrani, Manufacturing and Characterization of Corrosion Resistant Epoxy/2Pack Coatings Incorporated with Polyaniline Conductive Polymer, Int. J. Electrochem. Sci 2015, 10, 5599-5613.
* Saba, N.; Paridah, M.T.; Jawaid, M.; Alothman, O.Y. Thermal and flame retardancy behavior of oil palm based epoxy nanocomposites. Journal of Polymers and the Environment 20171-10.
* Khan, S.; Ansari, Z.A.; Alothman, O.Y.; Fouad, H.; Ansari, S.G. Application of amine and copper doped magnesium oxide nanoparticles in electrochemical immunosensors for detecting brucella abortus. Nanoscience and Nanotechnology Letters 2017, 9, 1656-1664.
* Alshammari, B.A.; Alothman, O.Y.; Fouad, H.; Elnakady, Y.A.; Mohamed, A.E.O.; Sayed, S.R.M.; Hashem, M.; Khaled, U. Characterization of the viscoelastic, dielectric, and biological behavior of porous polyethylene for hard tissue replacement. Science of Advanced Materials 2017, 9, 2073-2081.
* Alothman, O.Y.; Alshammari, B.A.; Fouad, H. Effect of aluminum oxide nanoparticles on nanomechanical and viscoelastic properties of low density polyethylene composites. Nanoscience and Nanotechnology Letters 2017, 0, 1891-1898.
* Albarrag, A.M.; Alothman, O.Y.; Elsharawy, M.A.; Fayez Al Rez, M.; Fouad, H.; Hashem, M.; Ansari, S. Effect of nigella sativa extracts on candida species adhesion to acrylic denture base material and on nanomechanical properties. Science of Advanced Materials 2017, 9, 775-781.
* Alam, M.A.; Samad, U.A.; Sherif, E.S.M.; Alothman, O.; Seikh, A.H.; Al-Zahrani, S.M. Effects of minor additions of polypyrrole on the thermal, mechanical and electrochemical properties of epoxy-2pack coatings. International Journal of Electrochemical Science 2017, 12, 74-89.
* Fouad, H.; AlFotawi, R.; Alothman, O.Y.; Alshammari, B.A.; Alfayez, M.; Hashem, M.; Mahmood, A. Porous polyethylene coated with functionalized hydroxyapatite particles as a bone reconstruction material. Materials 2018, 11, 521.
* Saba, N., Paridah, M.T., Jawaid, M., Alothman, O.Y. Thermal and Flame Retardancy Behavior of Oil Palm Based Epoxy Nanocomposites. Journal of Polymers and Environment, 2018, 26, 1844.
* Atiqah, A., Jawaid, M., Sapuan, S.M., Ishak, M.R., Alothman, O.Y., Thermal properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites. Composite Structures 2018, 202, 954-958.
* Chee, S.S., Jawaid, M., Sultan, M.T.H., Alothman, O.Y., Abdullah, L.C. Thermomechanical and dynamic mechanical properties of bamboo/woven kenaf mat reinforced epoxy hybrid composites. Composites Part B: Engineering 2019, 163, 165
* Saba, N., Alothman, O.Y., Almutairi, Z., Jawaid, M. Magnesium hydroxide reinforced kenaf fibers/epoxy hybrid composites: Mechanical and thermomechanical properties. Construction and Building Materials 2019, 201, 138.
* Senthilkumar, K., Saba, N., Chandrasekar, M., Jawaid, M., Rajini, N., Alothman, O.Y., Siengchin, S., Evaluation of mechanical and free vibration properties of the pineapple leaf fibre reinforced polyester composites. Construction and Building Materials 2019, 195, 423.

**Selected Peer Reviewed Conferences**

* G. A. Campbell, O. Y. Alothman, M. D. Bullwinkel, Effect of high density polyethylene concentration and melt temperature on crystallization dynamics during film blowing of linear low density polyethylene, SPE ANTEC 2002, Vol. 1, Brookfield, CT, USA.
* O. Y. Alothman and R. J. Day, [Rheological and Dielectrical Properties of Ethylene Vinyl Acetate and Polystyrene](http://faculty.ksu.edu.sa/othman/Documents/PPS_22_characterization.pdf), PPS-22 proceedings, 2006, Yamagata, Japan.
* O. Y. Alothman and R. J. Day, [Temperature Profiles of Ethylene Vinyl Acetate during Injection Moulding](http://faculty.ksu.edu.sa/othman/Documents/PPS-22_TempProfile.pdf), PPS-22 proceedings, 2006, Yamagata, Japan.
* O. Y. Alothman, Rheological Characterization Of Ethylene Vinyl Acetate, SPE ANTEC 2009, Chicago, IL, USA
* O. Y. Alothman, Rabeh H. Elleithy, Saeed M. Al-Zahrani, Mechanical, Thermal and Rheological Characterization of Polypropylene/ Ethylene Vinyl Acetate Blends, PPS-26 proceedings, 2010, Banff, Canada.
* Othman Alothman, Rheological Characterization of Ethylene Vinyl Acetate/Polypropylene, PPS-27 Proceedings, 2011, Marrakesh, Morocco.
* Rabeh Elleithy, Othman Alothman, Shafaat Salahudeen, S. M. Al-Zahrani, Comparative study of The Effect of Natural and Artificial Weathering of Polypropylene/Ethylene Vinyl Acetate (PP/EVA) Blends, ANTEC 2012, Chicago, USA.
* H. Fouad and O. Y. Alothman, Creep-Recovery and Relaxation Behavior of High Density Polyethylene/ Hydroxyapatite Nano Particles for Bone Substitutes: Effects of Gamma Radiation, SCET 2014 Conference, 2014, Shanghai, China.
* M. E. Ali Mohsin, Agus Arsad, H. Fouad, M. Jawaid, and Othman Y. Alothman, Enhanced Mechanical and thermal properties of CNT/HDPE nanocomposite using MMT as secondary filler, Times of Polymers (TOP) Conference, 2014, Ischia, Italy.
* M. Jawaid, N. Saba, Othman Y. Alothman, H. P. S. Abdul Khalil, and, M. Mariatti, Thermal Conductivity Behavior of Oil Palm/Jute Fibre-Reinforced Hybrid Composites, 3rd Advanced Materials Conference, 2016, Langkawi Island, Malaysia.

**Patents:**

* Salahudeen, S.A.; Alothman, O.Y.; Elleithy, R.H. Internal batch mixer with three-wing non-intermeshing rotors, US9694330B1, 2017.

**Books**

**Translated Books:**

* Book Translation, "Understanding Plastics Testing" By D. C. Hylton, Translated by: Othman Y. Alothman and Rabeh Elleithy, 2010
* Book Translation, "Training In Injection Molding" By Michaeli et al, Translated by: Othman Y. Alothman and Aziz Abu Khalaf, 2013.
* Book Translation, “ Plastics and Sustainability” By Michael Tolinski, Translated by: Othman Y. Alothman and H. Fouad, 2015.

**Book Chapters:**

* Faris M AL-Oqla, Othman Y Alothman, M Jawaid, SM Sapuan, MH Es-Saheb, Processing and properties of date palm fibers and its composites, in: Biomass and Bioenergy, Springer International Publishing, pp.1-25, 2014.
* Saba, N.; Jawaid, M.; Sultan, M.T.H.; Alothman, O. Hybrid multifunctional composites-recent applications. In Hybrid polymer composite materials: Applications, Elsevier Inc.: 2017; pp 151-167.
* Saba, N.; Jawaid, M.; Sultan, M.T.H.; Alothman, O.Y. Green biocomposites for structural applications. In Green Biocomposites: Design and Applications, Springer Verlag: 2017; pp 1-27.

**Edited Books:**

* Khalid Rehman Hakeem, Mohammad Jawaid, Othman Y. Alothman, (Eds.), Agricultural Biomass Based Potential Materials, Springer International Publishing, 2015.
* Jawaid, M.; Salit, M.S.; Alothman, O.Y., Green biocomposites: Design and applications. Springer: 2017.
* Jawaid, M.; Salit, M.S.; Alothman, O.Y., Green biocomposites: Manufacturing and Properties. Springer: 2017.

1. **Skill Development**

**Selected Short Courses:**

* SPSS I Short Course, KSU, Deanship of Skills Development, 2007.
* Team Based Learning, KSU, Deanship of Skills Development, 2008.
* Courseware Development 2.0, National Center for E-Learning, 2008.
* Motivating Students to Learn, KSU, Deanship of Skills Development, 2008.
* Use of Technology in the University Teaching, KSU, Deanship of Skills Development, 2009.
* Building A World Class Program, KSU, Deanship of Skills Development, 2009.
* ICT for Learning and Teaching, The University of Leeds, UK, 2009.
* Students Assessments Skills, KSU, Deanship of Skills Development, 2009.
* Active Lesson Design Using CourseLab, National Center for E-Learning, 2009.
* Animation Design Using Flash Program, National Center for E-Learning, 2009.
* Using Adobe Photoshop for Images Manipulation, KSU, Deanship of Skills Development, 2010.
* Course Construction, KSU, Deanship of Skills Development, 2010.
* Comprehensive Program in Trainers Preparation, Imam Univ., 2010.
* Active Learning Strategies, KSU, Deanship of Skills Development, 2011.
* Postgraduate Certificate for Academic Practice (PGCAP), King’s College, London, UK, 2011.
* Assessment Using Rubrics, KSU, Deanship of Skills Development, 2012.
* Active Leadership for the Second line Leaders. KSU, Deanship of Skills Development, 2012
* Publishing in The International Scientific Journals, KSU, Deanship of Skills Development, 2012
* Professional Project Management, KSU, Deanship of Skills Development, 2012.