**Othman Y. Alothman**

Professor

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**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

**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-Sep. 2018
* Professor, Chem. Eng. Dept., King Saud University, Oct. 2018- Present

**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.

**Councils and Committees**

**King Saud University:**

* The International Scientific Twinship Program, member, 2009- 2010.
* The publishing committee - Translation Center, coordinator, 2011-2013.
* The publishing committee - Translation Center, member, 2013-2015.
* The publishing Committee - Scientific Council, member, 2012-2013.
* The Council of Translation Center, Member, 2010 – present.

**College of Engineering (KSU):**

* The college sub-committee of student Rights, coordinator, 2009
* The college sub-committee of student Rights, member, 2010-2013
* The college sport supervisor, 2010
* The College Council, member, 2011
* The college committee of student affairs, 2012-2013.
* The Department Committee of Academic Promotion 2018-Present.

**The Saudi Electronic University**

* The University Council, member, 2014-2018
* Supervisory Committee of Graduate Studies, member, 2013-2014.
* The Council of Deanship of Graduate studies, Chairman, 2014-2018.
* The Scientific Council, member, 2014-present.
* The Scientific Council, Secretary, 2017-2019.
* Committee of student affairs, member, 2013-2018.
* Committee of admission for graduate studies, 2013-2018.
* Council of Deanship of Scientific Research, Member, 2016-2018
* The accreditation Committee, Member, 2016-2018.

**Research Interests**

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

**Journal Publication**

* 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, 66(12): 2502-2511, 2011.
* 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. 127: 2739–2748, 2013.
* **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, 51: 540–547, 2012.
* **Othman Y. Alothman**, Processing and Characterization of High Density Polyethylene/Ethylene Vinyl Acetate Blends with Different VA Contents, Advances in Materials Science and Engineering, Article ID 635693, 2012.
* 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, 12:5, 2013.
* 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, 29(6): 573-581, 2013.
* N. M. Abd El-Salam, Mohamed Sabry Mostafa, G.A. Ahmed, **O.Y. Alothman**, Synthesis and Antimicrobial Activities of Some New Heterocyclic Compounds Based on 6-Chloropyridazine-3(2H)thione, Journal of Chemistry, Article ID 890617, 2013.
* Mohamed S. Mostafa, Nasser M. Abd El-Salam, and **Othman Y. Alothman**, Synthesis and Microbial Activity of Novel 3-Methyl-2-pyrazolin-5-one Derivatives, Journal of Chemistry, Article ID 183130, 2013.
* Muhammad Omer Aijaz, Shan Faiz, Ubair Abdus Samad, Fahad S. Al Mubaddel, Mohammad Luqman,**Othman Y. AlOthman**, Nanofiber: Applications and Implementation in Advance Water Treatment Techniques, Applied Mechanics and Materials, 376, p.: 97-100, 2013.
* 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, 18(8): p. 608-616, 2013.
* **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, 12 (95), 2013.
* 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. 19(3), 189-203, 2014.
* **Othman Al Othman**, Shan Faiz, Muhammad Abduh Tuasikal, Study of Natural and Accelerated Weathering on Mechanical Properties of Antioxidants Modified Low Density Polyethylene Films for Greenhouse, International Journal of Polymer Science, Article ID 543930, 2014.
* 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, 19(1), 62-69, 2014.
* 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. 35(7), 1418–1425, 2014
* M. Jawaid, **Alothman Othman**, N. Saba, Y.A. Shekeil, M. T. Paridah, H.P.S Abdul Khalil, Effect of chemical modifications of fibres on tensile properties of Epoxy hybrid composites, International Journal of Polymer Analysis and Characterization 19(5):391-403,2014.
* 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, 56, 70-80, 2014
* **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, 13,125, 2014.
* 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, 7 (3), 407-413, 2015.
* M. E. A. Mohsin, A. N. Ibrahim, A. Arsad, M. F. A. Rahman, **O. Y. Alothman**, Effect of polypropylene, ethylene vinyl acetate and polyamide-6 on properties of recycled polypropylene/empty fruit bunch composites, Fibers and Polymers 16 (11), 2359-2367, 2015.
* 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 10, 5599-5613, 2015
* N Saba, M. Jawaid, **O. Y. Alothman**, M. T. Paridah, A review on dynamic mechanical properties of natural fibre reinforced polymer composites, Construction and Building Materials 106, 149-159, 2016.
* Saba, N.; Safwan, A.; Sanyang, M.L.; Mohammad, F.; Pervaiz, M.; Jawaid, M.; **Alothman, O.Y.**; Sain, M. Thermal and dynamic mechanical properties of cellulose nanofibers reinforced epoxy composites. *International Journal of Biological Macromolecules* **2017**, *102*, 822-828.
* 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* **2017**, 1-10.
* Saba, N.; Mohammad, F.; Pervaiz, M.; Jawaid, M.; **Alothman, O.Y.**; Sain, M. Mechanical, morphological and structural properties of cellulose nanofibers reinforced epoxy composites. *International Journal of Biological Macromolecules* **2017**, *97*, 190-200.
* Saba, N.; Jawaid, M.; Paridah, M.T.; **Alothman, O**. Physical, structural and thermomechanical properties of nano oil palm empty fruit bunch filler based epoxy nanocomposites. *Industrial Crops and Products* **2017**, *108*, 840-843.
* Saba, N.; Jawaid, M.; **Alothman, O.Y**.; Inuwa, I.M.; Hassan, A. A review on potential development of flame retardant kenaf fibers reinforced polymer composites. *Polymers for Advanced Technologies* **2017**, *28*, 424-434.
* Kian, L.K.; Jawaid, M.; Ariffin, H.; **Alothman, O.Y**. Isolation and characterization of microcrystalline cellulose from roselle fibers. *International Journal of Biological Macromolecules* **2017**.
* 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.
* Asim, M.; Jawaid, M.; Abdan, K.; Ishak, M.R.; **Alothman, O.Y**. Effect of hybridization on the mechanical properties of pineapple leaf fiber/kenaf phenolic hybrid composites. *Journal of Renewable Materials* **2018**, *6*, 38-46.
* Alotaibi, M. D., B. A. Alshammari, N. Saba, **O. Y. Alothman**, M. Sanjay, Z. Almutairi and M. Jawaid. Characterization of natural fiber obtained from different parts of date palm tree (Phoenix dactylifera L.), International journal of biological macromolecules, **2019**, 135 69-76.
* Alshammari, B. A., M. D. Alotaibi, **O. Y. Alothman**, M. Sanjay, L. K. Kian, Z. Almutairi and M. Jawaid. A New Study on Characterization and Properties of Natural Fibers Obtained from Olive Tree (Olea europaea L.) Residues, Journal of Polymers and the Environment, **2019**, 1-7.
* Alshammari, B. A., N. Saba, M. D. Alotaibi, M. F. Alotibi, M. Jawaid and **O. Y. Alothman**. Evaluation of Mechanical, Physical, and Morphological Properties of Epoxy Composites Reinforced with Different Date Palm Fillers, Materials, **2019**, 12 (13), 2145.
* Chee, S. S., M. Jawaid, M. Sultan, **O. Y. Alothman** and L. C. Abdullah, 2019, Evaluation of the hybridization effect on the thermal and thermo-oxidative stability of bamboo/kenaf/epoxy hybrid composites, Journal of Thermal Analysis and Calorimetry, **2019**, 137 (1), 55-63.
* Saba, N., M. Jawaid, M. M. Alrashed and **O. Y. Alothman**. Oil palm waste based hybrid nanocomposites: Fire performance and structural analysis, Journal of Building Engineering, **2019**, 100829.
* Saba, N., **O. Y. Alothman**, Z. Almutairi, M. Jawaid and W. Ghori. Date palm reinforced epoxy composites: tensile, impact and morphological properties, Journal of Materials Research and Technology, **2019**, on press.
* Saba, N., M. Jawaid, **O. Y. Alothman** and Z. Almutairi, 2019, Evaluation of dynamic properties of nano oil palm empty fruit bunch filler/epoxy composites, Journal of Materials Research and Technology, **2019**, 8 (1), 1470-1475.
* Alotabi, M.D., Alshammari, B.A., Saba, N., **Alothman, O.Y**., Kian, L.K., Khan, A., and Jawaid, M., Microcrystalline Cellulose from Fruit Bunch Stalk of Date Palm: Isolation and Characterization. Journal of Polymers and the Environment, 2020: p. 1-10.
* **Alothman, O.Y.,** Alrashed, M.M., Anis, A., Naveen, J., and Jawaid, M., Characterization of Date Palm Fiber-Reinforced Different Polypropylene Matrices. Polymers, 2020. 12(3): p. 597.
* Chee, S.S., Jawaid, M., Sultan, M., **Alothman, O.Y.,** and Abdullah, L.C., Effects of nanoclay on physical and dimensional stability of Bamboo/Kenaf/nanoclay reinforced epoxy hybrid nanocomposites. Journal of Materials Research and Technology, 2020.
* Kian, L., Saba, N., Jawaid, M., **Alothman, O.**, and Fouad, H., Properties and Characteristics of Nanocrystalline Cellulose Isolated from Olive Fiber. Carbohydrate Polymers, 2020: p. 116423.
* Sagadevan, S., Marlinda, A.R., Johan, M.R., Umar, A., Fouad, H., **Alothman, O.Y.,** Khaled, U., Akhtar, M., and Shahid, M., Reduced graphene/nanostructured cobalt oxide nanocomposite for enhanced electrochemical performance of supercapacitor applications. Journal of colloid and interface science, 2020. 558: p. 68-77.

**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.

**Skill Development**

**Short Courses:**

* SPSS I Short Course, KSU, Deanship of Skills Development, 2007.
* SPSS II 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.