

PERSONAL INFORMATION:

Full Name: Elyas Afra

Nationality: Iranian

Academic Level: Associate Professor

Cell:۰۹۱۱۳۷۱٦٤٥٤

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EDUCATION:

B.Sc. in Wood Science & Technology, Gorgan University, Iran, ۲۰۰۱

M.Sc. in Wood Science & Technology, Gorgan University, Iran, ۲۰۰۵

Ph.D. in Wood Science & Technology, Gorgan University, Iran, / Mechanical Engineering, University of British Columbia, Canada, ۲۰۰۹

RESEARCH INTEREST:

Nanotechnology

Biofuels

Process management

Process control

PUBLICATION:

۱- Fabrication of eco-friendly hydrophobic cellulose paper via paper dip-coating in beeswax for improved barrier characteristics. (Journal of polymer research. IF:2.6 - Q3 - 2025)
۲- Sustainable Utilization And Optimization Of Undersized Wood Chip Residues In Soda-anthraquinone Pulping: Insights From Response Surface Methodology And Handsheet Properties. (Biomass Conversion and Biorefinery. IF:3.5 - Q3- 2024)

٣- The Production Of Bagasse Biofuel Briquettes And The Evaluation Of Natural Binders (lnfc, Nfc, And Lignin) Effects On Their Technical Parameters. (Journal of Cleaner Production. IF:11.072- Q1- 2021)
٤- Improving Technical Parameters Of Biofuel Briquettes Using Cellulosic Binders. (Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. IF:3.447 – Q2- 2020)
٥- Silver-clay Nanohybride As A Coating For Improvement Of The Antibacterial Properties Of Paper. (Drewno. IF:1.2 – Q3 – 2020)
٦- Nano-lignocellulose From Recycled Fbres In Coatings From Aqueous And Ethanolic Media: Efect Of Residual Lignin On Wetting And Ofset Printing Quality. (Nordic Pulp & Paper Research Journal. IF:0.775 – Q3 - 2019)
٧- Coupling Nanofibril Lateral Size And Residual Lignin To Tailor The Properties Of Lignocellulose Films. (Advanced Materials Interfaces. IF:4.948 – Q1 - 2019)
٨- Direct Esterification Of Reinforced Papers By Immersion Method And Evaluation Of Their Properties. (Wood Science and Technology. IF:2.109 – Q1 - 2019)
٩- Evaluation Of Eco-friendly Compounds In The Manufacturing Of Antibacterial Papers. (Natural Product Research. IF:1.999 – Q3 - 2018)
١٠- Mwcnt-coated Cellulose Nanopapers: Droplet-coating, Process Factors, And Electrical Conductivity Performance. (Carbohydrate Polymers. IF:6.044 – Q1 - 2018)
١١- Application Of Cellulose Nanofibril (cnf) As Coating On Paperboard At Moderate Solids Content And High Coating Speed Using Blade Coater. (progress in organic coatings. IF:3.420 – Q1 - 2018)
١٢- Creating Extended Antimicrobial Property In Paper By Means Of Ag And Nanohybrids Of Montmorillonite (mmt). (holzforschung. IF:2.079 – Q1 - 2017)
١٣- Cellulose Nanofiber/carboxymethyl Cellulose Blends As An Efficient Coating To Improve The Structure And Barrier Properties Of Paperboard. (Cellulose. IF:3.809 – Q1 - 2017)
١٤- Cellulose nanofibils as coating material and its effects on paper properties. (Progress in organic coatings. IF:2.858 – Q1 – 2016)
١٥- Modererate surface acetylation of nanofibrillated cellulose for the improvement of paper strength and barrier properties. (RSC Advances. IF:3.289 – Q2 - 2015)
١٦- Preparation of cellulose nanofibrils from microcrystalline cellulose by high intensity ultrasonication and its applicability as reinforcement for paper. (Journal of Biobased materials and bioenergy. IF:0.635 – Q4 - 2015)
١٧- Properties of chemi-mechanical pulp filled with nanofibrillated and microcrystalline cellulose. (Journal of Biobased materials and bioenergy. IF:0.653 – Q4 - 2014)

ACADEMIC TEACHING EXPERIENCE:

Process analysis and control , M.Sc and Ph.D Level

Papermaking chemistry, M.Sc and Ph.D Level

Physics and mechanics of paper, B.Sc, M.Sc and Ph.D Level

Basics of Paper Properties, M.Sc and Ph.D Level

Wood chemistry, B.Sc level

Lignocellulosic Materials Anatomy Laboratory, B.Sc, and M.Sc level

New technologies in the wood and cellulose products industries , M.Sc level

Water and energy management in cellulose industries , M.Sc level

SERVICE AND PROFESSIONAL MEMBERSHIP:

AWARDS:

LANGUAGES: English