

Curriculum Vitae

Dr. Ali Olad



• *Personal Data*

Name: Ali

Surname: Olad

Date of Birth: 26th July 1972

Nationality: Iranian

Sex: Male

Marital Status: Married

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Degree: Professor

H-index: 47

Educational Background:

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
PhD	Applied Chemistry (Polymer Composites & Conducting Polymers)	University of Tabriz, Iran	2003
MSc	Applied Chemistry (Corrosion & Polymeric Coatings)	University of Tabriz, Iran	1997
BSc	Applied Chemistry	University of Tabriz, Iran	1995

Teaching Experiences:

Title of Course	Level	Dates		Name of Institution
		From	To	
Conducting Polymers	PhD	2006	2010	University of Tabriz
Industrial Chemistry 2	BSc	1997	Continuing	University of Tabriz
Industrial Electrochemistry	BSc	2003	2017	University of Tabriz
Coatings and Adhesives	PhD	2012	Continuing	University of Tabriz
Polymer Composites and Nanocomposites	MSc	2010	Continuing	University of Tabriz
Physical and Mechanical Properties of Polymers	MSc	2010	Continuing	University of Tabriz

Research Interests:

1. Polymer composites and nanocomposites
2. Surface modification and polymer coatings
3. Conducting polymers and blends
3. Polymer hydrogels
3. Corrosion and electrochemistry

Publications

- [Preparation of PTSLIPS coatings using polyurethane-based nanocomposite and investigation of their hydrophobicity and anti-icing properties](#) 1 2025
M Kouhi, A Olad, A Mirmohseni, B Pourabbas
Progress in Organic Coatings 204, 109246
- [Fluorine-Free Hydrophobic Powder Coatings: A Sustainable Approach Using Functionalized Biogenic SiO₂ for Anticorrosion and Antifouling Applications](#) 2025
Z Nazarlou, H Najjari, A Olad, U Aydemir
Surfaces and Interfaces, 106881
- [High Chrome Exhaustion by Using Oxidized Tragacanthin as a Natural Pre-Tanning Agent in Leather Industry](#) 2025
M Bastanian, A Olad, M Ghorbani
Journal of the American Leather Chemists Association 120 (5), 229-242
- [Sustainable chrome-free leather manufacturing through the aldehyde-vegetable combination tanning method based on biomass-derived dialdehyde carboxymethyl cellulose and mimosa ...](#) 1 2025
M Bastanian, A Olad, M Ghorbani
International Journal of Biological Macromolecules 306, 141554
- [Preparation of interpenetrating networks from chitosan and poly \(hydroxypropyl methacrylate\) or p \(hydroxyethyl methacrylate\) for controlled release of doxorubicin and curcumin ...](#) 3 2025
F Shakouripour, A Olad, G Bayramoglu
International Journal of Biological Macromolecules 301, 140929
- [Anti-icing and antibacterial super-hydrophobic poly \(dimethyl siloxane\) coatings modified with silica, TiO₂, Ag₃PO₄, and CuO nanoparticles](#) 3 2025
F Fathi, Z Nazarlou, U Aydemir, A Olad
Materials Chemistry and Physics 333, 130333
- [An injectable chitosan based dual thermo/pH-responsive fast gelling hydrogel loaded by methotrexate/curcumin as local drug delivery system of breast cancer](#) 9 2025
S Ahmadi, A Olad, M Fathi, O Molavi
Journal of Drug Delivery Science and Technology 104, 106540
- [Optimization of delignification and cellulose isolation process from natural cotton pods and preparation of its nanofibers with choline chloride–lactic acid eutectic solvents](#) 14 2025
H Soleimanzadeh, D Salari, A Olad, A Ostadrahimi
Biomass Conversion and Biorefinery 15 (2), 2063-2079
- [Gelatin-carboxymethyl cellulose/iron-based metal-organic framework nanocomposite hydrogel as a promising biodegradable fertilizer](#) 10 2024

- release system: [Synthesis, characterization ...](#)
M Akbarzadeh, A Olad, D Salari, A Mirmohseni
International Journal of Biological Macromolecules 279, 135316
- [Investigation of antibacterial properties and sustained release of *Centella Asiatica* extract from Fe-MOF-reinforced gelatin-based hydrogels](#) 2 2024
S Hezari, A Olad, A Dilmaghani
Polymer Bulletin 81 (16), 14701-14725
- [Efficient lithium separation from alkali metal brine with ultrasonic assisted composite ionic liquid membrane processing](#) 4 2024
B Golmohammadi, H Shekaari, A Rostami, A Olad
Desalination 587, 117911
- [Preparation of hydrogels based on okra pods/chia seeds mucilage for drug delivery application](#) 3 2024
S Fazli, S Hezari, A Olad
Polymer Bulletin 81 (13), 11539-11562
- [Effect of glutaraldehyde and calcium chloride as different crosslinking agents on the characteristics of chitosan/cellulose nanocrystals scaffold \(vol 208, pg 912, 2022\)](#) 2024
F Doustdar, A Olad, M Ghorbani
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 267
- [Corrigendum to “Effect of glutaraldehyde and calcium chloride as different crosslinking agents on the characteristics of chitosan/cellulose nanocrystals scaffold”\[Int. J. Biol ...](#) 2024
F Doustdar, A Olad, M Ghorbani
International Journal of Biological Macromolecules 267, 131382
- [Tuning a green carboxymethyl cellulose-based pre-tanning agent via peroxide oxidation for high chrome exhaustion in leather industry](#) 11 2024
M Bastanian, A Olad, M Ghorbani
International Journal of Biological Macromolecules 265, 131133
- [Fabrication of magnetic nanocomposite scaffolds based on polyvinyl alcohol-chitosan containing hydroxyapatite and clay modified with graphene oxide: evaluation of their ...](#) 36 2024
A Babakhani, SJ Peighambaroust, A Olad
Journal of the Mechanical Behavior of Biomedical Materials 150, 106263
- [Hybrid cross-linked nanocomposite hydrogels based on *Elaeagnus angustifolia* gum: effect of clay content on water uptake and gel characteristics](#) 2 2024
A Olad, Z Allami, MJ Hejazi, M Eslamzadeh, F Fathi, S Hezari
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- [Optimization of cellulose extraction process from sugar beet pulp and preparation of its nanofibers with choline chloride–lactic acid deep](#) 18 2023

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H Soleimanzadeh, FM Bektashi, SZ Ahari, D Salari, A Olad, A Ostadrahimi
Biomass Conversion and Biorefinery 13 (16), 14457-14469

Facile fabrication of durable and fluorine-free liquid infused surfaces on aluminum substrates with excellent anti-icing, anticorrosion, and antibiofouling properties 31 2023

M Sattari, A Olad, F Maryami, I Ahadzadeh, K Nofouzi
Surfaces and Interfaces 38, 102860

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A Olad, R Gordani, M Eslamzadeh, M Mollaei
Journal of Polymers and the Environment 31 (6), 2399-2414

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Preparation of self-healable nanocomposite hydrogel based on Gum Arabic/gelatin and graphene oxide: Study of drug delivery behavior 35 2023

S Rahmani, A Olad, Z Rahmani
Polymer Bulletin 80 (4), 4117-4138

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Preparation of magnetic inulin nanocomposite and its application in the removal of methylene blue and heavy metals from aqueous solution 14 2022

AA Herab, D Salari, A Ostadrahimi, A Olad
Materials Chemistry and Physics 291, 126580

Carboxymethyl cellulose-based semi-IPN hydrogel nanocomposite with improved physicochemical and mechanical properties 16 2022

A Olad, J Aghayan, H Gharekhani, M Akbarzadeh
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S Hezari, A Olad, A Dilmaghani
International Journal of Biological Macromolecules 218, 488-505

Evaluating the effect of graphene oxide PEGylation on the properties of chitosan-graphene oxide nanocomposite scaffold 3 2022

- H Bakhtkhosh Hagh, LD Unsworth, A Olad
Journal of Biomedical Materials Research Part B: Applied Biomaterials 110 ...
- Synthesis of innovative TiO₂-inulin-Fe₃O₄ nanocomposite for removal of Ni (II), Cr (III), crystal violet and malachite green from aqueous solutions.** 2022
AA Herab, D Salari, A Ostadrahimi, A Olad
Journal of Polymer Research 29 (8), NA-NA
- Synthesis of innovative TiO₂-inulin-Fe₃O₄ nanocomposite for removal of Ni (II), Cr (III), crystal violet and malachite green from aqueous solutions** 7 2022
A Amini Herab, D Salari, A Ostadrahimi, A Olad
Journal of Polymer Research 29 (8), 321
- Removal of heavy metals from polluted water using magnetic adsorbent based on κ-carrageenan and N-doped carbon dots** 49 2022
Z Rahmani, M Ghaemy, A Olad
Hydrometallurgy 213, 105915
- The effect of montmorillonite in graphene oxide/chitosan nanocomposite on controlled release of gemcitabine** 28 2022
F Farshi Azhar, M Rezaei, A Olad, H Mousazadeh
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- Effect of glutaraldehyde and calcium chloride as different crosslinking agents on the characteristics of chitosan/cellulose nanocrystals scaffold** 84 2022
F Doustdar, A Olad, M Ghorbani
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- CHITOSAN-NANOCRYSTALLINE CELLULOSE SCAFFOLDS FOR BONE TISSUE ENGINEERING: EFFECT OF TWO DIFFERENT CROSSLINKING AGENTS ON THE PHYSICO-CHEMICAL PROPERTIES OF THE SCAFFOLDS** 2022
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 F Farshi Azhar, A Olad, M Jafarpour
 Nashrieh Shimi va Mohandesi Shimi Iran 40 (4), 1-19
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 H Talebi, A Olad, R Nosrati
 Progress in Organic Coatings 163, 106665
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 A Olad, M Anarchi, R Nosrati
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- Preparation of nanogels based on kappa-carrageenan/chitosan and N-doped carbon dots: Study of drug delivery behavior** 30 2021
 Z Rahmani, M Ghaemy, A Olad
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- Potential of slippery liquid infused porous surface coatings as flashover inhibitors on porcelain insulators in icing, contaminated, and harsh environments** 34 2021
 A Olad, F Maryami, A Mirmohseni, AA Shayegani-Akmal
 Progress in Organic Coatings 151, 106082
- Ion-crosslinked carboxymethyl cellulose/polyaniline bio-conducting interpenetrated polymer network: preparation, characterization and application for an efficient removal of Cr ...** 23 2021
 A Olad, M Bastanian, S Aber, H Zebhi
 Iranian Polymer Journal 30 (2), 105-119
- Fabrication and characterization of a starch-based superabsorbent hydrogel composite reinforced with cellulose nanocrystals from potato peel waste** 144 2020
 A Olad, F Doustdar, H Gharekhani
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- Effectiveness of PANI/Cu/TiO₂ ternary nanocomposite on antibacterial and antistatic behaviors in polyurethane coatings** 15 2020
 A Mirmohseni, M Rastgar, A Olad
 Journal of Applied Polymer Science 137 (26), 48825

- Evaluation of in vitro anti-fungal properties of allicin loaded ion cross-linked poly (AA-co-AAm)/PVA/Cloisite 15A Nanocomposite hydrogel films as wound dressing materials 30 2020
A Olad, M Eslamzadeh, F Katiraei, A Mirmohseni
Journal of Polymer Research 27 (4), 100
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A Olad, M Eslamzadeh, A Mirmohseni
Journal of Applied Polymer Science 136 (41), 48025
- Thermodynamic and kinetic studies of removal process of hexavalent chromium ions from water by using bio-conducting starch–montmorillonite/polyaniline nanocomposite 31 2019
A Olad, M Bastanian, H Bakht Khosh Hagh
Journal of Inorganic and Organometallic Polymers and Materials 29 (6), 1916-1926
- Graphene oxide and montmorillonite enriched natural polymeric scaffold for bone tissue engineering 52 2019
A Olad, HBK Hagh, A Mirmohseni, FF Azhar
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SN Applied Sciences 1 (8), 868
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A Mirmohseni, M Rastgar, A Olad
Journal of Applied Polymer Science 136 (23), 47629
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- Preparation of PANI–CuZnO ternary nanocomposite and investigation of its effects on polyurethane coatings antibacterial, antistatic, and mechanical properties 21 2018
A Mirmohseni, M Rastgar, A Olad
Journal of Nanostructure in Chemistry 8 (4), 473-481

- Investigation of nonlinear electrical properties of ZnO/PPy nanocomposite and its application as a low-voltage varistor 6 2018
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International Journal of Nanoscience and Nanotechnology 14 (4), 289-296
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A Olad, H Zebhi, D Salari, A Mirmohseni, A Reyhanitabar
Journal of Porous Materials 25 (5), 1325-1335
- Superabsorbent nanocomposite based on maize bran with integration of water-retaining and slow-release NPK fertilizer 57 2018
A Olad, H Gharekhani, A Mirmohseni, A Bybordi
Advances in Polymer Technology 37 (6), 1682-1694
- Slow-release NPK fertilizer encapsulated by carboxymethyl cellulose-based nanocomposite with the function of water retention in soil 266 2018
A Olad, H Zebhi, D Salari, A Mirmohseni, AR Tabar
Materials Science and Engineering: C 90, 333-340
- Electromagnetic interference attenuation and shielding effect of quaternary Epoxy-PPy/Fe₃O₄-ZnO nanocomposite as a broad band microwave-absorber 65 2018
A Olad, S Shakoori
Journal of magnetism and magnetic materials 458, 335-345
- Visible-light induced anti-bacterial and self-cleaning waterborne polyacrylic coating modified with TiO₂/polypyrrole nanocomposite; preparation and characterization 29 2018
R Nosrati, A Olad, F Maryami
Journal of Molecular Structure 1163, 174-184
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Carbohydrate polymers 190, 295-306

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Journal of Materials Science: Materials in Electronics 29 (11), 9692-9699

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A Olad, H Zebhi, D Salari, A Mirmohseni, A Reyhanitabar
Journal of Porous Materials 25 (3), 665-675

Preparation and characterization of polyurethane based self-cleaning and antibacterial coating containing silver ion exchanged montmorillonite/TiO₂ nanocomposite 25 2018

A Olad, F Rezvani, R Nosrati
Research on Chemical Intermediates 44 (3), 1711-1727

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H Gharekhani, A Olad, F Hosseinzadeh
New Journal of Chemistry 42 (16), 13899-13914

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New Journal of Chemistry 42 (4), 2758-2766

A study of the effect of TPU and clay nanoparticles on the mechanical behavior of PBT-based nanocomposites 15 2017

A Chalabi Tehran, K Shelesh-Nezhad, P Faraji Kalajahi, A Olad
Mechanics of Advanced Composite Structures 4 (3), 179-186

Preparation of an antibacterial, hydrophilic and photocatalytically active polyacrylic coating using TiO₂ nanoparticles sensitized by graphene oxide 80 2017

R Nosrati, A Olad, S Shakoori
Materials Science and Engineering: C 80, 642-651

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A Olad, M Alipour, R Nosrati
Bulletin of Materials Science 40 (5), 1013-1020

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Polymer Bulletin 74 (8), 3353-3377

<p>Superabsorbent hydrogel made of NaAlg-g-poly (AA-co-AAm) and rice husk ash: Synthesis, characterization, and swelling kinetic studies H Gharekhani, A Olad, A Mirmohseni, A Bybordi Carbohydrate polymers 168, 1-13</p>	246	2017
<p>Controlled release systems based on intercalated paraquat onto montmorillonite and clinoptilolite clays encapsulated with sodium alginate A Rashidzadeh, A Olad, MJ Hejazi Advances in Polymer Technology 36 (2), 177-185</p>	37	2017
<p>Study of the effect of TiO₂/polyaniline nanocomposite on the self-cleaning property of polyacrylic latex coating R Nosrati, A Olad, H Najjari Surface and Coatings Technology 316, 199-209</p>	29	2017
<p>Effect of exfoliated organophilic montmorillonite on the structure and conductivity of polypropylene/polyaniline composites A Olad, F Sadeghvandi, A Mirmohseni Polymer composites 38 (4), 699-707</p>	1	2017
<p>pH sensitive and controlled release system based on cellulose nanofibers-poly vinyl alcohol hydrogels for cisplatin delivery FF Azhar, E Shahbazzpour, A Olad Fibers and Polymers 18 (3), 416-423</p>	36	2017
<p>Effects of aluminum surface treatments on the interfacial fracture toughness of carbon-fiber aluminum laminates AZ Zakaria, K Shelesh-nezhad, TN Chakherlou, A Olad Engineering Fracture Mechanics 172, 139-151</p>	80	2017
<p>Mechanics of Advanced Composite Structures K Shelesh-Nezhad, PF Kalajahia, A Olad polymer 5, 8</p>		2017
<p>Study on the synergistic effect of clinoptilolite on the swelling kinetic and slow release behavior of maize bran-based superabsorbent nanocomposite A Olad, H Gharekhani, A Mirmohseni, A Bybordi Journal of Polymer Research 23 (12), 241</p>	20	2016
<p>Study on the capacitive performance of polyaniline/activated carbon nanocomposite for supercapacitor application A Olad, H Gharekhani Journal of Polymer Research 23 (8), 147</p>	28	2016
<p>A new method of preparing gel for DGT technique and application to the soil phosphorus availability test S Heidari, A Reyhanitabar, S Oustan, A Olad Communications in Soil Science and Plant Analysis 47 (10), 1239-1251</p>	14	2016

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R Nosrati, A Olad
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A Rashidzadeh, A Olad, A Reyhanitabar
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A Rashidzadeh, A Olad, D Salari, M Jalil Hejazi
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M Ghafouri, M Parhizkar, H Bidadi, SM Aref, A Olad
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- Fabrication and characterization of chitosan–gelatin/nanohydroxyapatite–polyaniline composite with potential application in tissue engineering scaffolds** 166 2014
F Farshi Azhar, A Olad, R Salehi
Designed Monomers and Polymers 17 (7), 654-667
- The synergetic effect of bioactive ceramic and nanoclay on the properties of chitosan–gelatin/nanohydroxyapatite–montmorillonite scaffold for bone tissue engineering** 156 2014
A Olad, FF Azhar
Ceramics International 40 (7), 10061-10072
- Application of response surface methodology for modeling of reactive dye removal from solution using starch-montmorillonite/polyaniline nanocomposite** 41 2014
A Olad, FF Azhar, M Shargh, S Jharfi
Polymer Engineering & Science 54 (7), 1595-1607
- Development of novel hybrid nanocomposites based on natural biodegradable polymer–montmorillonite/polyaniline: preparation and characterization** 60 2014
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Desalination and Water Treatment 52 (13-15), 2548-2559

On the preparation and swelling properties of hydrogel nanocomposite based on Sodium alginate-g-Poly (acrylic acid-co-acrylamide)/Clinoptilolite and its ... 212 2014

A Rashidzadeh, A Olad, D Salari, A Reyhanitabar

Journal of Polymer Research 21 (2), 344

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M Parhizkar, SM Aref, M Ghafouri, A Olad, H Bidadi

Materials science in semiconductor processing 17, 143-148

Effect of polyaniline content on electrophysical properties of gallium arsenide–polymer composite varistors 16 2013

SM Aref, A Olad, M Parhizkar, M Ghafouri, H Bidadi

Solid state sciences 26, 128-133

Novel polyaniline/poly (vinyl alcohol)/clinoptilolite nanocomposite: dye removal, kinetic, and isotherm studies 33 2013

A Rashidzadeh, A Olad

Desalination and Water Treatment 51 (37-39), 7057-7066

Removal of Nickel (II) from aqueous solutions with polypyrrole modified clinoptilolite: kinetic and isotherm studies 36 2013

A Olad, S Ahmadi, A Rashidzadeh

Desalination and water Treatment 51 (37-39), 7172-7180

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AR Amani-Ghadim, A Olad, S Aber, H Ashassi-Sorkhabi

Environmental Progress & Sustainable Energy 32 (3), 547-556

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H Bidadi, SM Aref, M Ghafouri, M Parhizkar, A Olad

Journal of Physics and Chemistry of Solids 74 (8), 1169-1173

- The effect of sintering temperature on varistor characteristics of gallium arsenide–polyaniline–polyethylene composite varistors 12 2013
H Bidadi, SM Aref, M Ghafouri, M Parhizkar, A Olad
Materials science in semiconductor processing 16 (3), 752-758
- Preparation of polypyrrole nanocomposites with organophilic and hydrophilic montmorillonite and investigation of their corrosion protection on iron 35 2013
A Olad, A Rashidzadeh, M Amini
Advances in polymer technology 32 (2)
- Preparation and characterization of polypyrrole/clinoptilolite nanocomposite with enhanced electrical conductivity by surface polymerization method 25 2013
A Rashidzadeh, A Olad, S Ahmadi
Polymer Engineering & Science 53 (5), 970-975
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Patents:

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