

Curriculum Vitae of Prof. Ehsan Nazarzadeh Zare



Ehsan Nazarzadeh Zare

Professor of Polymer Chemistry,
Damghan University

Water treatment
Biomedical application
Biomaterials

	All	Since 2021
Citations	14628	12679
h-index	68	63
i10-index	175	173

Personal Information

Date of Birth: January 12, 1984

Place of Birth: Dezful

Nationality: Iranian

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Education

- ✓ **2015–2016:** Postdoctoral Fellowship in Polymer Composites, School of Chemistry, University of Mazandaran, Babolsar, Iran.
- ✓ **2011–2015:** Ph.D. in Polymer Chemistry, School of Chemistry, University of Mazandaran, Babolsar, Iran.
- ✓ **2007–2009:** M.Sc. in Organic-Polymer Chemistry, School of Science, Urmia University, Urmia, Iran.
- ✓ **2002–2006:** B.Sc. in Pure Chemistry, College of Science, Lorestan University, Khoramabad, Iran.

Editorial and Scientific Board Responsibilities

- ✓ **2020–Present:** Associate Editor, Frontiers in Materials (IF: 2.90)
- ✓ **2020–Present:** Associate Editor, Frontiers in Environmental Chemistry (IF: 2.90)
- ✓ **2020–Present:** Editorial Board Member, Inorganic Chemistry Communications (IF: 5.40)
- ✓ **2022–Present:** Editorial Board Member, Nanofabrication (IF: 2.00)
- ✓ **2020–Present:** Editorial Board Member, Journal of Ionic Liquids (Scopus Indexed)
- ✓ **2021–Present:** Director in Chief, Materials Chemistry Horizons

Honors and Awards

- ✓ Distinguished Researcher in Mazandaran Province: **2015**
- ✓ Winner, Shahid Tehrani Moghadam Prize (INSF): **2016**

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- ✓ Winner, Shahid Chamran Prize (INSF): **2017**
 - ✓ Damghan University Education Elite: **2023**
 - ✓ Iran Science Elite: **2020, 2023, 2024**
 - ✓ Damghan University Research Elite: **2019–2025**
 - ✓ Distinguished Researcher in Semnan Province: **2025**
 - ✓ World's Top 2% Scientists on 2020-2025.
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Research Projects

- ✓ Ehsan Nazarzadeh Zare and Yaser Rajabi, Photothermal application of nanocomposites and nanocomposite hydrogels based on polyaniline and its derivatives, modified natural polymers and organic metal frameworks and metal nanoparticles for cancer treatment, wound treatment and healing using laser, *Iranian Artificial Intelligence, Laser and Quantum Development Headquarters of the Vice-Presidency for Science, Technology and Knowledge Based Economy Affairs, 2025.*
 - ✓ Ehsan Nazarzadeh Zare, Preparation of antioxidant, antimicrobial and biodegradable films based on natural polymers such as gam tragacanth, gam Arabic and xanthan gam enriched with clove and cinnamon extracts along with metal oxide nanoparticles as bioactive coatings to preserve raw pistachios, *Iranian National Science Foundation, 2025.*
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Patents

Iranian patent: Zohreh Jafari Vafa, Ehsan Nazarzadeh Zare, Biodegradable, electrically conductive, bilayer biohydrogel based on tragacanth for use in electrotherapy, Intellectual Property Office, 2025.

Book

- ✓ Advanced Methods for Synthesis of Polymers. Moslem Mansour Lakouraj and Ehsan Nazarzadeh Zare. *University of Mazandaran Press, 2016.*
- ✓ The Most Widely Used Industrial Polymers. Ehsan Nazarzadeh Zare. *Noavaran Sharif Press, 2019.*
- ✓ Synthesis and Characterization of Polymers: A Laboratory Manual. Stanley R. Sandler (1998). Translated by Ehsan Nazarzadeh Zare. *Noavaran Sharif Press, 2018.*
- ✓ Principles of Polymer Design and Synthesis. Wei-Fang Su (2015). Translated by Ehsan Nazarzadeh Zare and Peyman Najafi Moghadam. *Damghan University Press, 2022.*

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- ✓ Composites Based on Electrically Conductive Polymers: Preparation and Applications. Ehsan Nazarzadeh Zare. *Damghan University Press*, **2023**.
 - ✓ Electrically Conducting Polymers and Their Composites for Tissue Engineering. Edited by Ehsan Nazarzadeh Zare and Pooyan Makvandi. *American Chemical Society Press*, **2023**.
 - ✓ Stimuli-Responsive Materials for Biomedical Applications. Edited by Ehsan Nazarzadeh Zare and Pooyan Makvandi. *American Chemical Society Press*, **2023**.
 - ✓ Carrier-mediated Gene and Drug Delivery for Dermal Wound Healing. Edited by Pooyan Makvandi and Ehsan Nazarzadeh Zare. *Royal Society of Chemistry Press*, **2023**.
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Book Chapter

- ✓ Ehsan Nazarzadeh Zare, Pooyan Makvandi, Metal based microbicidal surface agents, *Springer Nature*, **2020**
- ✓ Zari Fallah, Ehsan Nazarzadeh Zare, Mahmood Tajbakhsh, Vinod VT Padil, Cellulose composites as nanobiosorbents for ecological remediation, *Elsevier*, **2022**.
- ✓ Matineh Ghomi, Ehsan Nazarzadeh Zare, Rajender S Varma, Properties of conducting polymers, *ACS*, **2022**.
- ✓ Matineh Ghomi, Ehsan Nazarzadeh Zare, Rajender S Varma, Preparation of Conducting Polymers/Composites, *ACS*, **2022**.
- ✓ Fatemeh Salimi, Ehsan Nazarzadeh Zare, Industrial backgrounds and microbes growth, *Elsevier*, **2023**.
- ✓ Fatemeh Salimi, Ehsan Nazarzadeh Zare, Current scenario on the microbial world and associated diseases, *Elsevier*, **2023**.
- ✓ Golnaz Heidari, Zari Fallah, Ehsan Nazarzadeh Zare, One-Dimensional Polymeric Nanocomposites for Heavy Metal Detection, *CRC Press*, **2023**.
- ✓ Matineh Ghomi, Mahtab Yadollahi, Farnaz Dabbagh Moghaddam, Ehsan Nazarzadeh Zare, Polymers for Smart Sensors, *CRC Press*, **2023**.
- ✓ Roham Ghanbari, Ehsan Nazarzadeh Zare, Electrospinning of nanoclay reinforced bio-based composites and their applications in biomedical domains, *Elsevier*, **2024**.
- ✓ Golnaz Heidari, Ehsan Nazarzadeh Zare, Hybrid Nanosystems in Wastewater Treatment, *Elsevier*, **2024**.

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- ✓ Mahsa Ghovati, Keivan Bolouri, Naoki Kaneko, and Ehsan Nazarzadeh Zare, Metal organic frameworks in bone regeneration, ACS, 2024.

Publications (2010–2026)

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<p>Toward multifunctional nanoplatforms based on layered double hydroxides (LDHs) for cancer therapy: From structural design to application N Biglari, M Ghomi, EN Zare, E Mahmoudi, J Shen, P Makvandi Bioactive Materials 55, 602-622</p>		2026
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<p>High-performance, and antibacterial thin film nanocomposite forward osmosis membrane modified with carboxymethyl cellulose-CuO@ MIL-53 (Fe) nanoparticles Z Abbaszadeh, H Salehi, EN Zare, SAN Amri Inorganic Chemistry Communications, 115621</p>		2025
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Engineered biomimetic cell membrane-coated polymeric nanostructures for cancer therapy M Faria, I Ferreira-Faria, I Sousa-Oliveira, PC Pires, H Hameed, F Silva, ... Materials Today Chemistry 43, 102506	3	2025
Advancements in preceramic inorganic polymers for environmental applications: properties, synthesis, and potential uses MM Salehi, M Mohammadi, AR Akbarzadeh, M Babamoradi, A Maleki, ... RSC advances 15 (31), 25514-25541	2	2025
MXenes for Exosome Detection: A New Frontier in Biomolecular Analysis S Irvani, A Zarepour, A Khosravi, A Zarrabi, EN Zare, RS Varma, ... Materials Advances		2025
Eco-Engineered MIL53-NH2@ Xanthan Gum Nanocomposite: A Magnetic Biosorbent for Rapid Eradication of Ciprofloxacin and Amoxicillin in Polluted Waters MM Salehi, G Ranjbar, L Choopani, FH Afruzi, A Maleki, EN Zare New Journal of Chemistry 49, 12735-12748	2	2025
Metal-organic frameworks integrated into carbohydrate polymers as promising platforms for tissue engineering M Safarkhani, F Taghavimandi, N Biglari, A Ojaghi, FN Farzan, K Shin, ... Chemical Engineering Journal 506, 156847	10	2025
Intrinsic self-healing Polyurethanes: Advances, Applications, and future prospects R Ghanbari, A Serajian, S Ataei, EN Zare European Polymer Journal 221, 113566	9	2024
Cell membrane and extracellular vesicle membrane-coated nanoparticles: An envisaged approach for the management of skin conditions A Macário-Soares, I Sousa-Oliveira, M Correia, PC Pires, A Sharma, ... View 5 (6), 20240043	12	2024
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Magnetic carrageenan gum-grafted-polyacrylamide nanocomposite for uptake of cationic dyes from the aquatic systems MM Salehi, SM Nezhad, L Choopani, S Asghari, SM Safavi, F Shirini, ... International Journal of Biological Macromolecules 283, 137796	8	2024
Synergistic advancements: Exploring MXene/graphene oxide and MXene/reduced graphene oxide composites for next-generation applications S Iravani, A Zarepour, EN Zare, P Makvandi, A Khosravi, A Zarrabi FlatChem 48, 100759	24	2024
Biogenic Synthesis of Antibacterial and Antioxidant Silver Nanoparticles Using <i>Enterococcus faecium</i> DU.FS-Derived Exopolysaccharides: A Sustainable Approach ... P Chegini, F Salimi, EN Zare, P Farrokh Journal of Polymers and the Environment 32 (11), 6080-6095	8	2024
Engineered MXene-polymer composites for water remediation: promises, challenges and future perspective R Ghanbari, EN Zare Coordination Chemistry Reviews 518, 216089	41	2024
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Arabic gum-grafted-polyaniline@ MnFe ₂ O ₄ /UIO66-NH ₂ bionanocomposite as adsorbent for quercetin antioxidant: Efficiency, kinetics, thermodynamics and isotherm modelling A Jabbari, M Jabbari, EN Zare International Journal of Biological Macromolecules, 136844	10	2024
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Preparation of antimicrobial composite from Arabic gum-grafted-poly (p-phenylene diamine)/MOF (Fe) decorated with Cu nanoparticles as a unique nanobiosorbent for removal of ... M Motallebi, EN Zare, M Ghomi, FH Afrouzi Alexandria Engineering Journal 95, 1-13	9	2024

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