

Niyaz Mohammad Mahmoodi

h-index: 108 (Google Scholar Data, January 2025)

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Environmental Nanotechnology, Water and wastewater treatment

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Prof. Dr. Mahmoodi was ranked in Stanford University study of the world's top 2% of scientists in 2024
(Rank = 22 in Chemical Engineering).

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PROFESSIONAL INTERESTS

Prof. Dr. Mahmoodi had received BSc and MSc in Chemistry and PhD in Textile Engineering (Environmental Engineering). He published 238 peer-reviewed papers (ISI Thomson Reuters). His research focuses on environmental nanotechnology for water and wastewater treatment including the removal of pollutants using different nanomaterials (nanosheets, nanotubes, nanofibers, nanocomposites and nanoparticles). The main processes are adsorption, advanced oxidation, enzymatic, and membrane.

ACADEMIC POSITIONS

Department of Environmental Research, Institute for Color Science and Technology, Tehran, Iran

* **Full Professor:** June 2019 - Present

** **Associate Professor:** May 2015 - June 2019

*** **Assistant Professor:** January 2011 - May 2015

EDUCATION

* **PhD:** Textile (Environmental) Engineering, Amirkabir University of Technology, Tehran, Iran, 2008 - 2010.

** **MSc:** Applied Chemistry, Amirkabir University of Technology, Tehran, Iran, 2000 - 2003.

*** **BSc:** Chemistry, University of Mazandaran, Babolsar, Iran, 1996 - 2000.

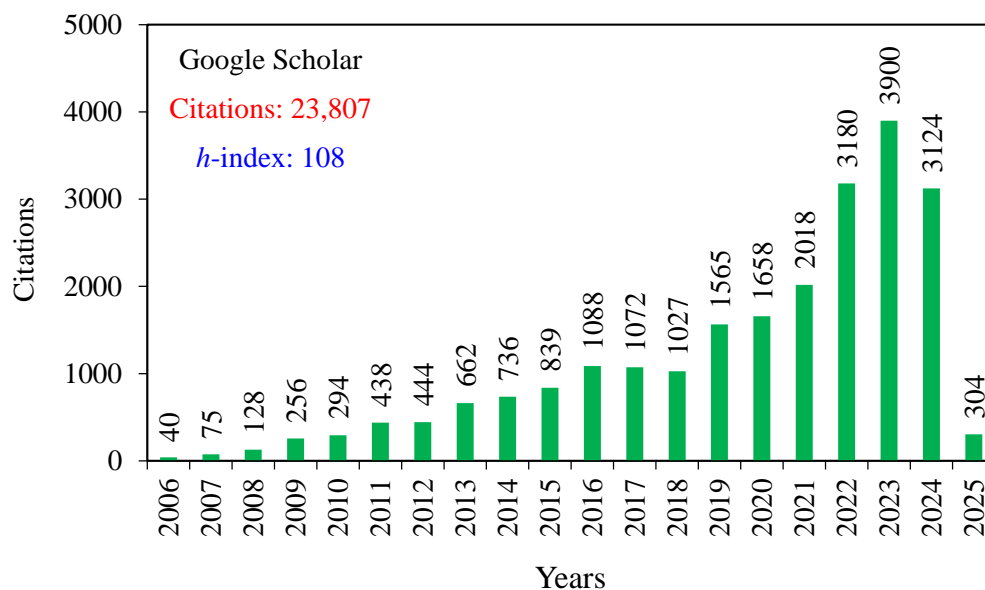
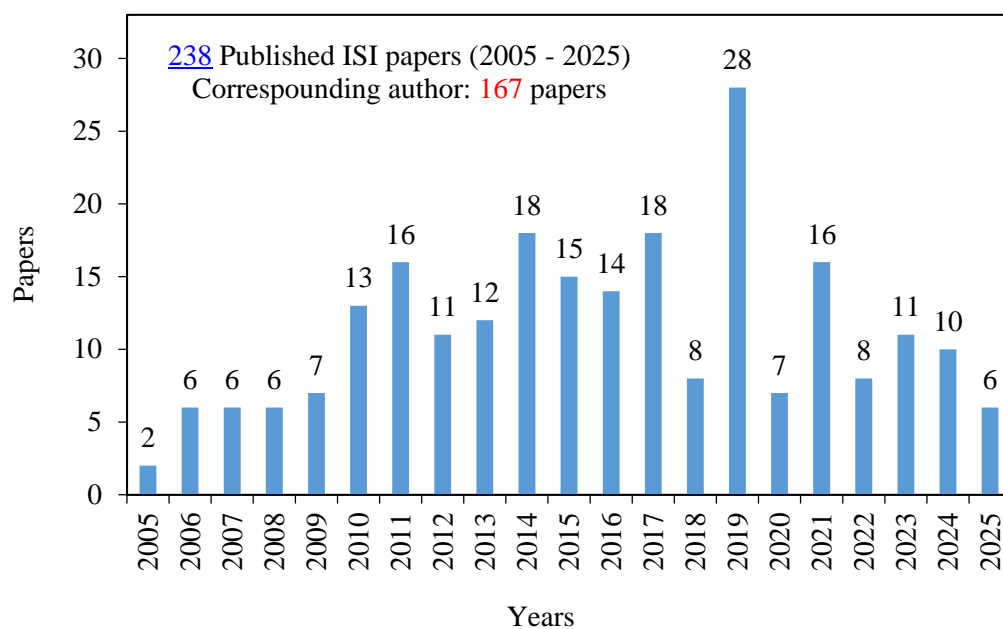
MENTORING, PUBLICATIONS, AND CITATIONS

* **Mentoring:** Research mentor to 20 PhD students, and 54 MSc students.

** **Publications:** Authored 238 articles in peer-reviewed journals (2005-2025).

*** **Citations:** Over 23,800 total citations with an average of 100 citations per published article.

**** **h-index:** 108 (Google Scholar Data, January 2025).



Rabeie B, Mahmoodi NM*, *Green and environmentally friendly architecture of starch-based ternary magnetic biocomposite (Starch/MIL100/CoFe₂O₄): Synthesis and photocatalytic degradation of tetracycline and dye.* *International Journal of Biological Macromolecules*. 274 (2024) 133318.

Rabeie B, Mahmoodi NM*, *Heterogeneous MIL-88A on MIL-88B hybrid: A promising eco-friendly hybrid from green synthesis to dual application (Adsorption and Photocatalysis) in tetracycline and dyes removal.* *Journal of Colloid and Interface Science*. 654 (2024) 495–522.

Mahmoodi NM*, Saffar-Dastgerdi MH, *Clean Laccase immobilized nanobiocatalysts (graphene oxide - zeolite nanocomposites): From production to detailed biocatalytic degradation of organic pollutant.* *Applied Catalysis B: Environmental*. 268 (2020) 118443.

PUBLICATIONS

- 238 Mahmoodi NM*, Bagherzadeh SB, *Synthesis of binary and ternary MOF/carbon based composites (MOF/Carbon nitride/Graphene oxide) for the visible-light assisted destruction of Tetracycline and textile dye.* [Nano Materials Science](#). In press **2025**.
- 237 Rabeie B, Mahmoodi NM*, Hayati B, Dargahi A, Moghaddam HR, *Magnetic COF/MOF hybrid: An efficient Z-scheme photocatalyst for the visible light-assisted degradation of tetracycline and malachite green.* [Journal of Molecular Liquids](#). 421 (**2025**) 126869 (1 March 2025).
- 236 Mazarji M, Mahmoodi NM*, Bidhendi GN, Li A, Li M, James A, Mahmoodi B, Pan J, *Synthesis, Characterization, and Enhanced Photocatalytic Dye Degradation: Optimizing Graphene-Based ZnO-CdSe Nanocomposites via Response Surface Methodology.* [Journal of Alloys and Compounds](#). 1010 (**2025**) 177999 (5 January 2025).
- 235 Shahmansoori M, Yaghmaei S, Mahmoodi NM*, *Green synthesis of chitosan-ZIF67 composite beads for efficient removal of Malachite Green and Tetracycline.* [Chemical Engineering Science](#). 304 (**2025**) 121017 (1 February 2025).
- 234 Mokhtari-Shourijeh Z, Ardjmand M, Mahmoodi NM*, Gholipour-Kanani A, Nosratinia F, *Seed-assisted two-step ZIF-67 growth on CS/PVA nanofibers for high-efficiency cadmium and tetracycline adsorption.* [Journal of Molecular Structure](#). 1321 (**2025**) 139835 (February 2025).
- 233 Moradi A, Kalae M, Moradi O, Mahmoodi NM, Zaarei D, *Novel binary and ternary biocomposites (ZIF-67), graphene oxide (GO) nanosheet, and Guar gum (GG) biopolymer): synthesis and adsorption of malachite green cationic dye.* [ChemistrySelect](#). In press **2025**.
- 232 Rabeie B, Mahmoodi NM*, Hayati B, Dargahi A, Moghaddam HR, *Chitosan adorned with ZIF-67 on ZIF-8 biocomposite: A potential LED visible light-assisted photocatalyst for wastewater decontamination.* [International Journal of Biological Macromolecules](#). 282 (**2024**) 137405 (December 2024).
- 231 Rabeie B, Mahmoodi NM*, *Green and environmentally friendly architecture of starch-based ternary magnetic biocomposite (Starch/MIL100/CoFe₂O₄): Synthesis and photocatalytic degradation of tetracycline and dye.* [International Journal of Biological Macromolecules](#). 274 (**2024**) 133318 (August 2024).
- 230 Rabeie B, Mahmoodi NM*, *Heterogeneous MIL-88A on MIL-88B hybrid: A promising eco-friendly hybrid from green synthesis to dual application (Adsorption and Photocatalysis) in tetracycline and dyes removal,* [Journal of Colloid and Interface Science](#). 654 (**2024**) 495–522 (January 2024).
- 229 Naeini AH, Moradi SAH, Mahmoodi NM*, *Binary metal-organic framework composites as environmentally friendly photocatalysts: Green synthesis and visible light-assisted pollutant degradation.* [Journal of Photochemistry and Photobiology A: Chemistry](#). 457 (**2024**) 115916 (1 December 2024).
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- 227 Khodayari J, Zare K, Moradi O, Kalae M, Mahmoodi NM, *Synthesis of eco-friendly carboxymethyl cellulose /metal–organic framework biocomposite and its photocatalytic activity,* [Journal of Photochemistry and Photobiology A: Chemistry](#) 446 (**2024**) 115097 (January 2024).
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- 224 Khodayari J, Zare K, Moradi O, Kalae M, Mahmoodi NM, *A Novel Synthesis of a Calix [4] Arene, MIL-101(Fe), and Copper(II) Oxide Nanocomposite (Calix/MIL-101(Fe)/CuO): Synthesis, Characterization, Degradation, and Pollutant Removal Ability*, *ChemistrySelect* 9 (2024) e202403168 (3 December 2024).
- 223 Samianifard SM, Kalae M, Moradi O, Mahmoodi NM, Zaarei D, *Synthesis of novel Starch/zeolitic imidazolate framework (ZIF-67)/Graphene oxide biocomposite and photocatalytic dye degradation ability*, *Optical Materials*. 151 (2024) 115268 (May 2024).
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- 221 Shahmansoori M, Yaghmaei S, Mahmoodi NM*, *Zeolitic imidazolate framework biocomposite as a visible light-assisted photocatalyst: Synthesis (in-situ and blending), regeneration, and decolorization of Malachite Green*. *Journal of Industrial and Engineering Chemistry*. 128 (2023) 472-486 (December 2023).
- 220 Rabeie B, Mahmoodi NM*, *Hierarchical ternary titanium dioxide decorated with graphene quantum dot/ZIF-8 nanocomposite for the photocatalytic degradation of doxycycline and dye using visible light*, *Journal of Water Process Engineering*. 54 (2023) 103976 (August 2023).
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- 187 Mahmoodi NM*, Saffar-Dastgerdi MH, *Clean Laccase immobilized nanobiocatalysts (graphene oxide - zeolite nanocomposites): From production to detailed biocatalytic degradation of organic pollutant*. *Applied Catalysis B: Environmental*. 268 (2020) 118443 (5 July 2020).
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