

Niyaz Mohammad Mahmoodi

h-index: 115 (Google Scholar Data, December 2025)

Full Professor

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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 = 6 in Chemical Engineering).

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/8>

Peer review (1246 reviews for 196 publications/grants)

PROFESSIONAL INTERESTS

Prof. Dr. Mahmoodi had received BSc and MSc in Chemistry and PhD in Textile Engineering (Environmental Engineering). He published 247 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 247 articles in peer-reviewed journals (2005-2026).

*** **Citations:** Over 26,500 total citations with an average of 107 citations per published article.

**** **h-index:** 115 (Google Scholar Data, December 2025).

* **Editor-in-Chief:** *Sustainable Chemical Engineering*
<https://ojs.wiserpub.com/index.php/SCE/about/editorialTeam>

** **Editorial Board:** *Collagen and Leather*
<https://jlse.springeropen.com/about/editorial-board>



Mahmoodi, Niyaz Mohammad
Institute for Color Science and Technology

Rank: 1687

- Main Field: Engineering
- Sub Field: Chemical Engineering
- Rank in the SubField: 6.0
- H-index: 25, Hm-index: 14

Top 2% Listed Year(s): 2025, 2024, 2023, 2022, 2021, 2020
"Single Year" Data

 The data is verified and sourced from ELSEVIER and Stanford University's Top 2% Scientists list.



www.TopSciNet.com



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Institute for Color Science and Technology

Rank: 5363

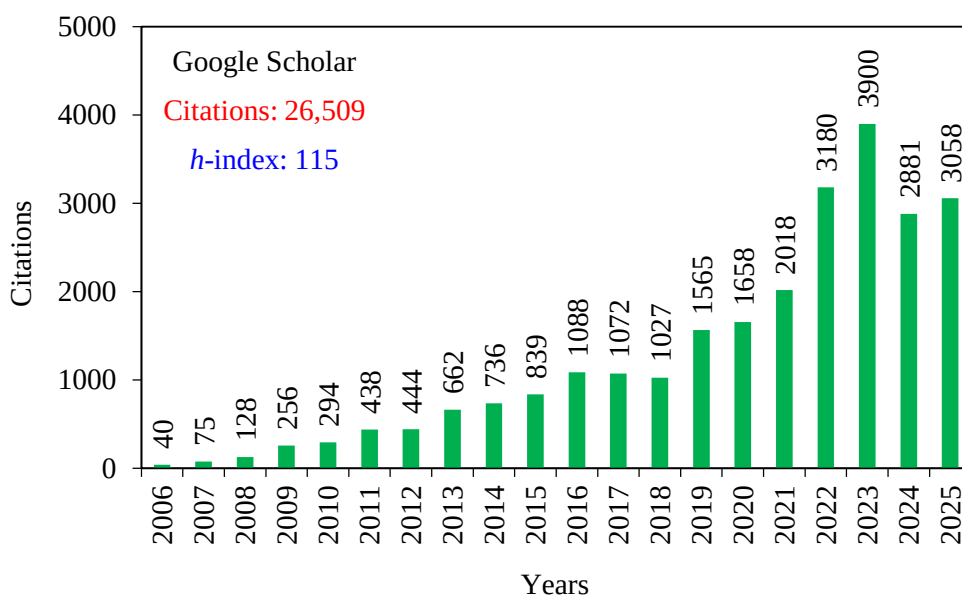
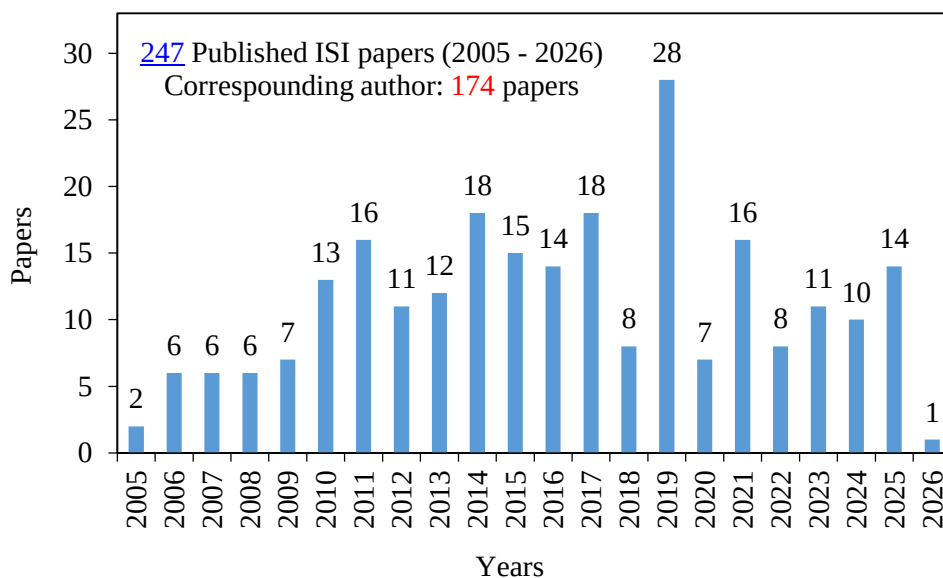
- Main Field: Engineering
- Sub Field: Chemical Engineering
- Rank in the SubField: 18.0
- H-index: 104, Hm-index: 46

Top 2% Listed Year(s): 2025, 2024, 2023, 2022, 2021, 2020
"Career Long" Data

 The data is verified and sourced from ELSEVIER and Stanford University's Top 2% Scientists list.



www.TopSciNet.com



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. (Impact factor: 19.5)

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. 7 (2025) 359-376. (Impact factor: 17.9)

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. (Impact factor: 9.7)

PUBLICATIONS

- 247 Mahmoodi NM*, Soroush S, Bagherzadeh SB, Mahmoodi B, Hayati B, Sorkheh M, Ternary MIL-101(Fe)/TiO₂/GO composites: synthesis, characterization, and photocatalytic performance. *Inorganic Chemistry Communications*. 183 (2026) 359-376 (January 2026).
- 246 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*. 7 (2025) 359-376 (June 2025).
- 245 Rabeie B, Mahmoodi NM*, Green synthesis of biopolymer-driven dual functional carboxymethyl cellulose composite (CMC/MIL100(Fe)/MIL88A(Al)) as a Z-Scheme photocatalyst and an adsorbent for Water Pollutants. *International Journal of Biological Macromolecules*. 329 (2025) 147358 (November 2025).
- 244 Rabeie B, Mahmoodi NM*, Environmentally friendly novel covalent organic framework composites as porous photocatalysts and adsorbents for Tetracycline and dyes (Congo Red and Methylene Blue) removal: Green synthesis, kinetics, regeneration, and removal mechanisms. *Applied Materials Today*. 46 (2025) 102884 (October 2025).
- 243 Rabeie B, Mahmoodi NM*, Fish scales-like magnetic covalent organic framework (COF) composite: Synthesis and photocatalytic tetracycline and dye degradation using LED visible light in water. *Surfaces and Interfaces*. 72 (2025) 107251 (1 September 2025).
- 242 Talebipour S, Panahi PN, Mahmoodi NM, Rasoulifard MH, Rabeie B, Novel eco-friendly MIL-88B/ZIF-67 hybrid composites for the efficient degradation of Direct Red 23 from wastewater under visible light irradiation. *Journal of Molecular Liquids*. 439 (2025) 128873 (1 December 2025).
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- 240 Meghdadian M, Mahmoodi NM*, Dual-functional materials (catalysts and adsorbents) as innovative and sustainable pathways toward combined healthcare (antibacterial, antifungal, antiviral, antioxidant, and anticancer properties) and water pollution remediation. *Journal of Environmental Chemical Engineering*. 13 (2025) 117718 (October 2025).
- 239 Mahmoodi NM*, Ghadirly MM, Hayati B, Mahmoodi B, Rabeie B, Synthesis of ZIF-8 composite (g-C₃N₄@ZIF-8/Ag₃PO₄) as a catalyst for the malachite green and tetracycline degradation. *Inorganic Chemistry Communications*. 17 (2025) 114345 (July 2025).
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- 237 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).
- 236 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).
- 235 Oshani F, Kargari A, Norouzbeigi R, Mahmoodi NM, Performance optimization and fouling study of geopolymer-zeolite composite membranes for sustainable textile wastewater treatment. *Scientific Reports*. 15 (2025) 35463 (10 October 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, Kalaei 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.* 10 (2025) e202404673 (February 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).
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- 207 Zokaee Z, Mahmoodi NM*, Rahimpour MR, Shariati A, Synthesis of visible light activated metal-organic framework coated on titania nanocomposite (MIL-53(Al)@TiO₂) and dye photodegradation. *Journal of Solid State Chemistry*. 307 (2022) 122747 (March 2022).
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- 203 Hoseinzadeh H, Bakhtiari M, Seifpanahi-Shabani K, Oveisi M, Hayati B, Rabeie B, Shahmoradi Ghaheh F, Salmani R, Ullah H, Mahmoodi NM*, Synthesis of the metal-organic framework – copper oxide nanocomposite and LED visible light organic contaminants (dye and pharmaceutical) destruction ability in the water. *Materials Science & Engineering B*. 274 (2021) 115495 (December 2021).
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