



## Mozghan Hosseinezhad

Associate Professor

Faculty: Dyes and Pigments Faculty

Department: Department of Organic Colorants

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenured	Full Time	17

### Papers in Conferences

1. S. Goudarzi et al. ,Eco-friendly recovery of cochineal dye from wastewater for textile printing: synthesis and application of a MIL-53(Al)nano pigment ,The 9th International Color and Coatings Congress (ICCC 2025) ,Kish ,7-8 May 2025.
2. IMPACT OF MORDANTS ON DYEING OF SILK WITH SUSTAINABLE NATURAL COLORANT EXTRACTED FROM CASSIA FISTULA BROWN PODS ,5th International Anatolian Scientific Research Congress ,2023.
3. M. Hosseinezhad, K. Gharanjig ,Synthesis and application of an organic dye in nanostructure solar cells device ,20th International Conference on Nanotechnology Materials and Application ,9 2018, رم 17.
4. M. Hosseinezhad, S. Moradian, K. Gharanjig ,The Synthesis and Application of an Organic Dye for Solar Cell ,The 22nd Iranian Seminar of Organic Chemistry ,19 8 2018, تبریز.
5. 2 ,& M. Hosseinezhad, K. Gharanjig, S. Moradian ,Synthesis of an organic dye for dye-sensitized solar cells ,20th Iranian Chemistry Congress ,17 7 2018, مشهد.
6. M. Hosseinezhad, K. Gharanjig ,Preparation of dye-sensitized solar cells based on new organic dye ,20th Iranian Chemistry Congress ,17 7 2018, مشهد.
7. M. Hosseinezhad, K. Gharanjig ,Synthesis and investigation of an organic dyes for dye-sensitized solar cells ,The 25th Iranian Seminar of Organic Chemistry ,2 9 2017, تهران.
8. M. Hosseinezhad, K. Gharanjig ,Investigation of green dye-sensitized solar cells based on natural dyes ,19th International Conference on Chemical and Food Engineering ,21 6 2017, وین.
9. M. Hosseinezhad, S. Rouhani ,Synthesis and investigation of new organic dyes in dye-sensitized solar cells ,19th Iranian Chemistry Congress ,20 2 2017, شیراز.
10. M. Hosseinezhad, K. Gharanjig ,Fabrication and investigation of nanostructured dye-sensitized solar cells using ZnO and TiO<sub>2</sub> nanoparticle ,International Biennial Conference on Ultrafine Grained and Nanostructured Materials ,12 11 2017, کیش.
11. M. Hosseinezhad, K. Gharanjig ,Synthesis and application of organic dye in nanostructure dye solar cell ,3rd International Conference on Nanotechnology ,27 8 2015, استانبول.

12. M. Hosseinneshad, S. Moradian, K. Gharanjig ,The synthesis of an organic dyes based on thioindigo for dye-sensitized solar cells ,The Energy and Materials Conference ,25 2 2015, مادرید.
13. M. Hosseinneshad, S. Moradian, K. Gharanjig ,Investigation of photovoltaic properties of dye-sensitized solar cells based on indigo dyes in the presence of an anti-aggregation agent ,The Energy and Materials Conference ,25 2 2015, مادرید.
14. M. Hosseinneshad, S. Moradian, K. Gharanjig ,The Synthesis of Organic Dye for Nanostructure Dye Solar Cell ,The 22nd Iranian Seminar of Organic Chemistry ,19 8 2014, تبریز.

## Papers in Journals

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1. Comparative synthesis of quercetin-loaded Zn/Al LDH via co-precipitation and ion exchange: RSM optimization, adsorption behavior, and antioxidant activity,Journal of Molecular Liquids,2026.
2. Mozghan Hosseinneshad , Sohrab Nasiri , Javad Movahedi , Mehdi Ghahari.Improving the efficiency of organic sensitizers with various anchoring groups for solar energy application.Solar Energy,مجلد ۲۲۸,۲۰۲۰ شماره صفحات ۲۱۱.
3. M. Hosseinneshad , A. Mahmoudi Nahavandi , S. Nasiri,Smart Tools for Optimizing Dye Loading in Efficient DSSCs: Hybrid ANN-MOGA Strategy,ChemEngineering,pp. 3,2026.
4. M. Anandan et al.,High triplet hexahydroacridine derivatives as a host prevent exciton diffusion to adjacent layers in solution processed OLEDs,Organic Electronics,2025.
5. H. Bahman et al.,Stabilization and sustained release of rutin dye via eco-friendly Zn/Al-LDH adsorbent: kinetic, thermodynamic, and antioxidant investigation,Journal of Molecular Structure,Vol. 1319,pp. 139616,2025.
6. Heart engineering of photovoltaic devices: preparation new Ru dyes using thioindigo and phenothiazine,Applied Organometallic Chemistry,Vol. 39,pp. e7766,2025.
7. Investigation of the combination of indoline and naphthalimide in the preparation of photosensitizers for photovoltaic devices,Journal of Electronic Materials,Vol. 54,pp. 473,2025.
8. Formulation and characterization of BBR loaded niosomes using saponin as a nonionic biosurfactant investigating synergistic effects to enhance antibacterial activity,Scientific Reports,pp. 5231,2025.
9. M. Rabiei et al.,Light-emitting electrochemical cells based on mechanochromic, thermally activated delayed fluorescence fish-shaped structures consisting of carbazole derivatives as emitters in the active layer,Organic Electronics,Vol. 141,pp. 107214,2025.
10. H. Bahman et al.,Synthesis and characterization of an eco-friendly nano-hybride based on luteolin-loaded zinc-aluminum layered double hydroxide for biological application,International Journal of Environmental Science and Technology,Vol. 22,pp. 3545,2025,ISI.
11. M. Hosseinneshad , K. Gharanjig , S. Adeel , A. Mahmoudi Nahavandi,Introduction of new combination of bio-mordant from agriculture waste for eco-dyeing of wool yarns,Research Journal of Textile and Apparel,Vol. 29,pp. 284,2025.
12. M. Hosseinneshad , K. Gharanjig , S. Nasiri , M. Fathi,Study of the presence of thioindigo in photosensitizers based on phenothiazine: synthesis and photovoltaic evaluation in DSSCs,Synthetic Metals,Vol. 312,pp. 117885,2025,ISI.
13. M. Rabiei et al.,D–A–D' TADF emitters for LEEC fabrication: Meta vs ortho-linking controls color and efficiency,Results in Engineering,pp. 107598,2025.
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15. S. Shirahmad Haghghi , R. Jafari , M. Hosseinneshad,Color gamut analysis of low-cost dye-sensitized solar cells using natural dyes,Coloration Technology,pp. 172,2025.
16. S.A.R. Naqvia et al.,Modern ecofriendly approach for extraction of luteolin natural dye from weld for silk fabric and wool yarn dyeing,Sustainable Chemistry and Pharmacy,2024.
17. S. Nasiri et al.,What is TADF (thermally activated delayed fluorescence) compared to the

- mechanisms of FL (fluorescence), PH (phosphorescence), and TTA (triplet-triplet annihilation) based on a novel naphthalimide sulfonylphenyl derivative as a host?, *Journal of Photochemistry and Photobiology, A: Chemistry*, Vol. 447, pp. 115289, 2024.
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  19. S. Goudarzi et al., Enhanced removal of cochineal dye from textile effluents using MIL-53(Al): optimization, kinetics and thermodynamic studies, *Prog. Color Colorants Coat.*, pp. 16-1, 2024.
  20. Investigation of the use of food waste in renewable energy production: extraction, fabrication and characterization of natural photosensitizers in DSSCs, *Sustainable Energy Technologies and Assessments*, Vol. 72, pp. 104066, 2024.
  21. S. Nasiri et al., Acceptor-phenyl-donor mechanochromic dyes based on 9-Bromoanthracene, *Journal of Molecular Structure*, Vol. 1278, pp. 134953, 2023.
  22. Environmentally dyeing of wool yarns using combination of Myrobalan and Walnut husk as bio-mordant, *Prog. Color Colorants Coat.*, pp. 197-205, 2023.
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  30. M. Hosseinezhad, K. Gharanjig, S. Adeel, A. Mahmoudi Nahavandi, Clean dyeing of wool yarns using oleaster fruit components as new bio-mordant: a step toward reducing agricultural waste, *Clean Technologies and Environmental Policy*, 2023.
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- for dye-sensitized solar cells: Combination of carbazole and xantone, *Journal of Materials Science: Materials in Electronics*, Vol. 33, pp. 17711, 2022.
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