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Professor of Organic Chemistry

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[Google Scholar](#) (Citations: 2601; h-index: 27; i10-index: 81)

[Scopus](#)

[Web of Science](#)

CAREER OVERVIEW

As a **Professor of Organic Chemistry** and **Vice-Chancellor of Payame Noor University of Alborz**, I have established a strong track record in research, teaching, and academic leadership. Over the past 20 years, I have published more than **160 papers**, supervised over 65 Master's and PhD students, and taught a range of subjects at various universities. I have also served as **Deputy Head of Research** at both Payame Noor University of Zanzan and Payame Noor University of Alborz. In addition, I am the **Chairman** of the Iranian Chemical Science and Technologies Association and a member of the **reviewer boards** for several well-known journals. My research background is well developed in the fields of advanced materials, nanochemistry, organic synthesis, density functional theory (DFT), molecular docking, and machine learning.

EDUCATION

PhD: Organic Chemistry 2007-2010

[Sharif University of Technology](#), Tehran, Iran

Thesis: Controlled microwave-assisted synthesis of nanocatalysts and their catalytic activity
in organic chemistry

Master of Science: Organic Chemistry (GPA: 4.71/5) 2004-2006

[Sharif University of Technology](#), Tehran, Iran

Thesis: Facile double Fries rearrangement of diesters under microwave irradiation; Application
to the synthesis of a biogenetically rare type of natural phenol

Bachelor of Science: Applied Chemistry (GPA: 3.99/5) 1999-2003

[K. N Toosi University of Technology \(KNTU\)](#), Tehran, Iran

WORK EXPERIENCE

Vice-Chancellor, [Payame Noor University of Alborz](#), Iran 2025-present

Professor, [Payame Noor University of Alborz](#), Iran 2020-present

Researcher, [Azar Kavim Chemical Company](#), Tehran, Iran 2021-present

Deputy Head of Research, [Payame Noor University of Alborz](#), Iran 2018-2022

Associate Professor, [Payame Noor University of Alborz](#), Iran 2016-2020

Associate Professor, [Payame Noor University of Zanzan](#), Iran 2015-2016

Deputy Head of Research, Payame Noor University of Zanjan , Iran	2014-2016
Assistant Professor, Payame Noor University of Zanjan , Iran	2010-2015
Visiting Researcher, RWTH Aachen University , Aachen, Germany	2008-2009

PUBLICATIONS

1. Zerang, N, Mirjafary, Z. **Saeidian, H.** Rouhani, M. [Results Chem. 2025, 15, 102283.](#)
2. Dashti-Rahmatabadi, Y. **Saeidian, H.** Mokhtari, J. Mirjafary, Z. [Pet. Explor. Prod. Technol. 2025, 15, 11-20.](#)
3. Sadeghi, M.R. **Saeidian, H.** Mirjafary, Z. Rouhani, M. [J. Stud. Color World, 2025, DOI: 10.30509/jscw.2025.167421.1213](#)
4. Shahbazi, R. Mirjafary, Z. Zarghami, N. **Saeidian, H.** [Iran. J. Org. Chem. 2025, 16, 3775-3788](#)
5. Shahbazi, R. Mirjafary, Z. Zarghami, N. **Saeidian, H.** [Sci. Rep. 2024, 14, 27380-27391.](#)
6. Mshatat, E.K.S.B. Rouhani, M, Saeidian, H. [Polyhedron, 2024, 264, 117266-117273.](#)
7. Sadeghi, M.R. Saeidian, H. Mirjafary, Z. Rouhani, M. [Heliyon, 2024, 10, e40036-40046.](#)
8. **Saeidian, H.** Mirjafary, Z. Bakhtiari, A. Rahmatabadi, YD. [J. Organometall. Chem. 2024, 1017, 123285.](#)
9. Chalaki, B.S. Azizi, N. Mirjafary, Z. **Saeidian, H.** [Front. Chem. 2024, 12, 1.](#)
10. Hajialiakbari, N. **Saeidian, H.** Mirjafary, Z. Mokhtari, J. [Comput. Theor. Chem. 2024, 1242, 114881.](#)
11. Nazifi, M. **Saeidian, H.** Taheri, S. [Chem. Met. 2024, 8, 490-506 .](#)
12. Chalaki, B.S. Azizi, N. Mirjafary, Z. **Saeidian, H.** [J. Saudi Chem. Soc. 2024, 28, 101915.](#)
13. Tajik, R. Azizi, N. Mirjafary, Z, **Saeidian, H.** [Appl. Catal. O: Open, 2024, 194, 206998.](#)
14. Tajik, R. Azizi, N. Mirjafary, Z. **Saeidian, H.** [J. Ionic Liq. 2024, 4, 100111.](#)
15. Motamed, N. K. Larijani, K. Pournamdari, E. **Saeidian, H.** Hargalani, F. Z. [J. Heterocycl. Chem. 2024, 61, 1306.](#)
16. Hajialiakbari, N. **Saeidian, H.** Mirjafary, Z. Mokhtari, [Comput. Theor. Chem. 2024, 1235, 114571.](#)
17. Azaz, M. K. Rouhani, M. **Saeidian, H.** [Mol. Simul. 2024, 50, 1-8](#)
18. **Saeidian, H.** Rouhani, M. Hossein, A. [Chem. Phys. Lett. 2024, 842, 141221.](#)
19. Hesamzadeh, P. Seif, A. Mahmoudzadeh, K. Koli, M. G. Mostafazadeh, M. Nayeri, K. Mirjafary, Z. **Saeidian, H.** [Sci. Rep. 2024, 14, 6473.](#)
20. **Saeidian, H.** Asadabad, S.M.M. Mirjafary, Z. Rouhani, M. Maleki, A. [Comput. Theor. Chem. 2024, 1232, 114470.](#)
21. **Saeidian, H.** Asadabad, S. M. M. Szczepanik, D. W. Al-Juaifari, N. J. M. Mirjafary, Z. [Int. J. Quantum Chem. 2024, 124, 27271.](#)
22. **Saeidian, H.** Bakhtiari, A. Mirjafary, Z. Larijani, K. [Struct. Chem. 2023, 35, 1-10.](#)
23. Shojaei, S. Azizi, N. Mirjafary, Z. **Saeidian, H.** [J. Sol-Gel Sci. Technol. 2023, 109, 1-15.](#)
24. Kandi, M. Ebrahimi, A. Diyanat, M. **Saeidian, H.** [Iranian J. Seed Res. 2023, 10, 159.](#)
25. Shojaei, S. Mirjafary, Z. Azizi, N. **Saeidian, H.** [Sci. Rep. 2023, 13, 21232.](#)
26. Esfandbod, H. Mirjafary, Z. Rouhani, M. **Saeidian, H.** [Struct. Chem. 2023, 34, 2335.](#)
27. Yarikordeh, S. Rouhani, M. **Saeidian, H.** [Chem. Phys. Lett. 2023, 833, 140905.](#)
28. **Saeidian, H.** Asadabad, S. M. M. Mirjafary, Z. [Inorg. Chem. Commun. 2023, 157, 111387.](#)
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31. Koneshlou, T. Rouhani, M. **Saeidian, H.** Aliabad, J. [Comput. Theor. Chem. 2023, 1225, 114178.](#)
32. Taghiboroujerdi, M. Mirjafary, Z. **Saeidian, H.** [New J. Chem. 2023, 47, 5863.](#)
33. Solgi, L. Mirjafary, Z. Mokhtari, J. **Saeidian, H.** [Chem. Phys. Lett. 2023, 821, 140472.](#)
34. Shahbazi, R. Jafari-Gharabaghlou, D. Mirjafary, Z. **Saeidian, H.** Zarghami, N. [Pharmacol. Rep. 2023, 75, 442.](#)

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40. Jalezadeh, A. Mirjafary, Z. Rouhani, M. **Saeidian, H.** [Int. J. Mass Spectrom. 2022, 482, 116929.](#)
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92. **Saeidian**, H. Faghfori, M. Abdoli, M. [Iran. Chem. Commun. 2018, 6, 408.](#)
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100. Paghandeh, H. **Saeidian**, H. [J. Mol. Struct. 2018, 1157, 560.](#)
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157. Moghaddam, F.M. Mirjafary, Z. **Saeidian**, H. Javan, M.J. [Synllet 2008, 6, 892.](#)
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160. Moghaddam, F.M. **Saeidian**, H. [Mater. Sci. Eng. B 2007, 139, 265.](#)
161. Moghaddam, F.M. **Saeidian**, H. Mirjafary, Z. Sadeghi, A. [Lett. Org. Chem. 2007, 8, 576.](#)
162. Moghaddam, F.M. **Porkaleh**, H. Zali-Boinee, H. [Lett. Org. Chem. 2006, 3, 123.](#)

163. Dekamin, G.M. Moghaddam, F.M. **Saeidian**, H.; Mallakpour, Sh. [*Monatsh. Chem.* **2006**, *137*, 1591.](#)
164. Moghaddam, F.M. **Saeidian**, H. Mirjafary, Z. Taheri, S. [*J. Sulfur Chem.* **2006**, *27*, 545.](#)

INTERNATIONAL MEDIA ARTICLES

1. Enders, D. **Saeidian**, H. Mirjafary, Z. Iffland, D. Raabe, G. Runsink, J. [*Synlett* **2009**, 2872.](#)
2. Enders, D. Mirjafary, Z. **Saeidian**, H. [*Tetrahedron Asymmetry*, **2009**, *20*, 2429.](#)
3. **Saeidian**, H. Enders, D. Mirjafary, Z. [*Iran. Chem. Commun.* **2014**, *2*, 137.](#)
4. Raczyńska, E. D. Gal, J. F. Maria, P. C. Sakhawat, G. S. Fahim, M. Q. **Saeidian**, H. [*Molecules*, **2022**, *27*, 4370.](#)
5. Raczyńska, E. D. Gal, J. F. Maria, P. C. **Saeidian**, H. [*Symmetry* **2021**, *13*, 1554.](#)
6. **Saeidian**, H. Asadabad, S. M. M. Szczepanik, D. W. Al-Juaifari, N. J. M. Mirjafary, Z. [*Int. J. Quantum Chem.* **2024**, *124*, 27271.](#)

PATENTS AND INNOVATIONS

Dashti, Y. **Saeidian**, H, An efficient swelling inhibitor for drilling foams, [*US Patent*, **2024**, WO2024116163A1.](#)

CONFERENCE PRESENTATIONS

1. Mirjafary, Z. Javanmard, A. **Saeidian**, H. " Basicity enhancement of pyridinic amines using cation- π interaction : a comprehensive quantum study based on Density Functional Theory", *30th Iranian organic chemistry conference*, February 7-9/2025.
2. Bagheri, M.B. Mirjafary, Z. **Saeidian**, H. "Aromaticity investigation of phosphorous analogs of 2-pyridone and 2-thiopyridone derivatives: A comprehensive DFT study on Schleyer hyperconjugative aromaticity", *30th Iranian organic chemistry conference*, February 7-9/2025.
3. Rahimi, F. Maleki, A. **Saeidian**, H. "Validation of high-performance liquid chromatography method to determine the amount of ticagrelor", *7th Iranian applied chemistry conference*, September 17-18/2024.
4. Ghorbani, F. Maleki, A. **Saeidian**, H. " Comprehensive Calculations of Density Functional Theory on N-Alkyl 2-Hydroxyacetamide Compounds Containing Lactone Ring" *7th Iranian applied chemistry conference*, September 17-18/2024.
5. Inanlo, Z. **Saeidian**, H. Maleki, A. Bahramipناه, N " Comprehensive DFT calculations on Salvigenin, Eupatorin and Cirsilol", *29th Iranian organic chemistry conference*, November 1-3/2023.
6. Koneshlo, T. **Saeidian**, H. Mokhtari, J. "Utilizing biguanidin-dihydropyrimidine dual scaffolds in the design of the new organic superbases in gas phase", *29th Iranian organic chemistry conference*, November 1-3/2023.
7. Koneshlo, T. **Saeidian**, H. Mokhtari, J. " Design of Novel strong superbases based on diquiniimino Computational DFT analysis in the gas phase", *29th Iranian organic chemistry conference*, November 1-3/2023.
8. Eshaghi, M. Maleki, A. **Saeidian**, H. "Simultaneous analysis of sofosbuvir and ledipasvir Using fuzzy inference system and adaptive neuro-fuzzy inference system approaches", *first national conference of chemistry and medicinal plants*, December 28-29/2022.
9. Inanlo, Z. **Saeidian**, H. Maleki, A. Bahramipناه, N " Comprehensive DFT calculations on Salvigenin, Eupatorin and Cirsilol", *29th Iranian organic chemistry conference*, November 1-3/2023.
10. Mohammadi, S. **Saeidian**, H. Maleki, A. Bahramipناه, N. "Study of physicochemical properties of bisphenolic compounds using Density Functional Theory calculations." "*5th national Congress of Chemistry and Nanochemistry from Research to Technology*", November 16/2022.
11. Falahi, M. Payehghadr, M. A. Attaran, **Saeidian**, H. "Investigating the antioxidant effect of olive leaf, mint, basil and ascorbyl palmitate extracts in the field of photooxidation in edible oil compared to

- synthetic antioxidants BHT and TBHQ”, “5th national Congress of Chemistry and Nanochemistry from Research to Technology”, November 16/2022.
12. Khalajzadeh, A. Maleki, A. Saeidian, H. Payehghadr, M. “Electrochemical oxidation of diethyl-p-phenylenediamine in the presence of 3-Hydroxyphenol: electrochemical synthesis and mechanistic study”, 16th national Seminar of Chemistry in Payame Noor University” September 16/2020.
 13. **Saeidian, H.** Shafiee, Z. Mirjafary, Z. “Harnessing cation- π interaction to design of strong organic bases by using azaphane scaffold and DFT calculations”, “2nd national Congress of Chemistry and Nanochemistry from Research to Technology”, November 13-14/2019.
 14. Kianfar, S. Payehghadr, M. **Saeidian, H.** Hosseini, S. Haghgoo Qezelje, H. “Highly efficient synthesis of mesoporous silica-coated magnetic nanoparticles modified with alanine applied to analytical chemistry”, “15th national Seminar of Chemistry in Payame Noor University” September 26-27/2018.
 15. Saeidian, H. Kianfar, S. Payehghadr, M. Haghgoo Qezelje, H. Shirbandi, P. “4-Amino-3,5-di-2-pyridyl-4H-1,2,4-triazole-functionalized mesoporous silica-coated magnetic nanoparticles: Synthesis, characterization and catalytic applications to contaminant uptake”, “15th national Seminar of Chemistry in Payame Noor University” September 26-27/2018.
 16. **Saeidian, H.** Hosseini, S. E. Amozadeh, A. Naseri, M. T. Babri, M. Isopropyl methylphosphonoselenofluoride: Microsynthesis, characterization and its reactivity against human plasma proteins, “The 25th Iranian Seminar of Organic Chemistry”, September 2-4/2017.
 17. Faghfour, M. Saeidian, H. Z. Mirjafary, “A copper (II)-thioamide combination as efficient heterogeneous and reusable catalyst for green one-pot synthesis of propargylamines”, “The 23rd Iranian Seminar of Organic Chemistry”, September 8-10/2015.
 18. **Saeidian, H.**; “Using chiral auxiliary in synthesis of active biological compounds: Asymmetric synthesis of palm weevils pheromones, 4S-ferrugineone and 4S, 5S-ferrugineol” Paper presented in the “11th national Seminar of Chemistry in Payame Noor University” March 14-15/2014.
 19. **Saeidian, H.**; “Microsynthesis and Mass spectroscopy studies on organophosphorus compounds in support of Chemical Weapons Convention” presenting as seminar at Sharif University of Technology Feb 19/2014 Tehran/Iran.
 20. **Saeidian, H.**; “Microsynthesis and mass spectral analysis of Chemical Weapons Convention-related organophosphorus compounds” presenting as seminar in the 21st Iranian Seminar of Organic chemistry March 13-15/2014 Ilam University/Iran
 21. **Saeidian, H.**; “An expedient and novel one-pot process for synthesis of 2-(N-arylamino) benzaldehydes from 2-hydroxy benzaldehydes” Paper presented in the “20th Iranian Seminar of Organic Chemistry July 3-5/2013 Hamedan/Iran.
 22. **Saeidian, H.**; “Microsynthesis and mass spectral studies of O-alkyl O-2-(dialkylamino)ethyl alkylphosphonites(phosphonates) for Chemical Weapons Convention verification” 20th Iranian Seminar of Organic Chemistry July 3-5/2013 Hamedan/Iran.
 23. **Saeidian, H.**; “First efficient synthesis of novel pyrano-fused quinoline derivatives and investigation of their physical properties using DFT calculations” 20th Iranian Seminar of Organic Chemistry July 3-5/2013 Hamedan/Iran.
 24. **Saeidian, H.**; “Unambiguous structural characterization of *scheduled chemicals* by electron ionization mass spectrometry and DFT calculations for Chemical Weapons Convention verification” 19th Iranian Seminar of Analytical Chemistry February 26-28/2013 Mashhad/Iran.
 25. **Saeidian, H.**; “Determination of the lewisite metabolite 2-chlorovinylarsonous acid (CVAA) in urine using dispersive derivatization liquid-liquid microextraction followed by GC/LC-MS” 19th Iranian Seminar of Analytical Chemistry February 26-28/2013 Mashhad/Iran.
 26. **Saeidian, H.**; “Microsynthesis and mass spectrometric study on the chemical weapons (CWC) related compounds” presenting as seminar in the “18th Iranian Seminar of Organic Chemistry” March 7-9/2012 Zahedan/Iran.
 27. **Saeidian, H.**; Babri, M.; Asharafi, D.; Sarabadani, M.; Heydarnia, E “Microsynthesis and electron ionization mass spectral studies of O-alkyl methylphosphono(thiono)cyanidates and investigation of for Chemical Weapons Convention verification” Paper presented in the “5th national Seminar of Chemistry in Emam Hossein University” November 7-8/2012

28. **Saeidian**, H.; Moghaddam, F.M.; Mirjafary, Z. "An efficient synthesis of bicycle[3.3.1]nonane systems via tandem 1,3-dinucleophilic addition of 4-hydroxy-2-quinolinones to quinolinium" Paper presented in the "18th Iranian Seminar of Organic Chemistry" March 7-9/2012 Zahedan/Iran.
29. **Saeidian**, H. Ashrafi, D.; Sarabadani, M.; Naseri, M. T.; Babri, M. "Microsynthesis and gas chromatography electron ionization mass spectrometry analysis O(S)-alkyl N,N dimethylamino methylthiophosphonothiolates(methylthiophosphonothiolates) for verification analysis of the chemical weapons convention" Paper presented in the "18th Iranian Seminar of Organic Chemistry" March 7-9/2012 Zahedan/Iran.
30. **Saeidian**, H.; Mirjafary, Z.; Enders, D.; "Efficient diastereo - and enantioselective synthesis of novel sulfonates" Paper presented in the "8th national Seminar of Chemistry in payame noor University" September 18-19/2010
31. **Saeidian**, H.; Mirjafary, Z.; Moghaddam, F. M " Efficient and green synthesis of new polycyclic procyanidin derivatives via tandem dinucleophilic addition of indolin-2-thiones to flavylum salts"17th Iranian Seminar of organic Chemistry" October 13-15/2010 Babolsar/Iran.
32. **Saeidian**, H.; Moghaddam, F.M.; Mirjafary, Z. "Superabsorbent polymer as nanoreactors for preparation of hematite nanoparticles and application of the prepared nanocatalyst for the Friedel-Crafts acylation" Paper presented in the "3rd International Conference on Nanostructures" March 10-12/2009 Kish Island, Iran.
33. **Saeidian**, H.; Moghaddam, F.M.; Mirjafary, Z. "Controlled microwave-assisted synthesis of ZnO nanopowder and its catalytic activity for the synthesis of β -acetamido ketones/esters via a multi-component reaction" Paper presented in the "3rd Iranian National Conference of Nanotechnology" February 5-7/2008 Shiraz/Iran.
34. **Saeidian**, H. "Solvent Free Synthesis of New Thiophene Derivatives Using KF–Al₂O₃ under Microwave Irradiation" "15th Iranian Seminar of organic Chemistry" August 27-29/2008 Kermanshah /Iran.
35. Moghaddam, F.M.; Mirjafary, Z.; **Saeidian**, H.; Jebeli Javan, M. "A Facile Aerobic Copper Catalyzed α -Oxygenation of Aryl Thioacetamides: An Efficient Access to α -Keto Aryl Thioamides"Activation of Dioxygen and Homogeneous Catalytic Oxidation (ADHOC 2008), Italy.
36. Dekamin, G.M.; Moghaddam, F.M.; **Saeidian**, H.; Mallakpour, Sh. "The performance of phthalimide-N-oxyl anion" "12th Iranian Seminar of organic Chemistry" March 7-9/2006 Ahwaz/Iran.
37. **Saeidian**, H. presenting a seminar about Taxol: synthesis and application at Sharif University 2008.
38. **Saeidian**, H. Presenting a seminar about Nanotechnology at Sharif University 2005.

PROFESSIONAL MEMBERSHIP AND VOLUNTEERING

1. [Chairman of the Iranian Chemical Science and Technologies Association, 2024.](#)
2. [Executive secretary of 2nd national Congress of Chemistry and Nanochemistry from Research to Technology, 2018](#)
3. [Scientific secretary of 16th National Congress of Chemistry of Payam Noor University, 2020.](#)
4. [Scientific secretary of 5th national Congress of Chemistry and Nanochemistry from Research to Technology, 2022.](#)
5. [Reviewer Board of "Molecules" \(MDPI\)](#)
6. [Reviewer of International ISI journals: Journal of Molecular Structure, Journal of Fluorine Chemistry, Coating, Chemosphere, Pure and Applied Chemistry, Synthesis, Journal of Chromatography B, International Journal of Mass Spectrometry, Quarterly Journal of Iranian Chemical Communication, Crystals, Catalysts, Arabian Journal of Chemistry, Archiv der Pharmazie, Chemistry & Biodiversity, Nashrieh shimi va mohandesi shimi Iran, etc.](#)

ACHEIVEMENTS AND AWARDS

1. Top researcher at Payame Noor University, Iran in 2018, 2020, 2021 and 2024

2. [National Elite Foundation \(NEF\)'s scholarship, Iran, 2011](#)
3. Government scholarship for PhD (full tuition fee), Iran, 2007-2010
4. [Deutscher Akademischer Austausch Dienst's \(Germany Academic Exchange Service\) Scholarship, 2009](#)
5. Government scholarship for MSc (full tuition fee), Iran, 2004-2006
6. Ranked 6th in the **MSc entrance exam** among more than 2000 candidates, Iran, 2003
7. Government scholarship for BSc (full tuition fee), Iran, 1999-2003

SKILLS AND COMPETENCIES

Advance Material Synthesis: Synthesis of organic compounds, preparation of nanocatalysts, preparation of drug delivery systems, synthesis of peptides, and preparation chiral compounds by asymmetric synthesis

Expert at material characterization: GC-MS, NMR, FT-IR, XRD, SEM, UV-Vis and TEM

Computer skills: Gaussian and GaussView (DFT calculations), Molecular Docking, and ACD Lab

TEACHING SUBJECTS

1. Organic Chemistry III (MSc): Science and Research Branch, Islamic Azad University for international students
2. Heterocyclic Chemistry (MSc): Science and Research Branch, Islamic Azad University for international students
3. Advanced Organic Chemistry (MSc): Sharif University of Technology
4. Advanced Organic Chemistry (MSc): Payame Noor University
5. Advanced Physical Organic Chemistry (MSc): Payame Noor University
6. Advanced Organic Synthesis (PhD and MSc): Payame Noor University
7. Heterocyclic chemistry (PhD): Payame Noor University
8. Organic Spectral Analysis (BSc): Payame Noor University
9. Organic Chemistry Laboratory (BSc): Payame Noor University
10. Separation of Organic compounds (BSc): Payame Noor University