ALI AKBAR ZINATIZADEH

https://scholar.google.com/citations?user=TWuvO6cAAAAJ&hl=en
http://orcid.org/0000-0002-0442-0841

E. zinatizadeh@razi.ac.ir
a.zinatizadehlorestani@uq.edu.au , zinatizadeh@gmail.com

SUMMARY

A productive professional in the field of Environmental Engineering and Innovative Technologies for Wastewater Treatment and Resource Recovery working in academia for more than 25 years. Focus is on development of innovative treatment technologies for industrial wastewaters including Biological Nutrient Removal and Recovery, Nutrient Recovery Cells, Membrane Processes, Advanced Oxidation Processes, Electrocoagulation and Bioenergy Production including Anaerobic Digestion Process, Bio-Hydrogen Production, Microbial Fuel Cell and technologies for waste and water-energy nexus. Broad expertise and work in a multidisciplinary field and solving complex problem. Improving and optimizing municipal and industrial wastewater treatment plants to reduce environmental pollution. With extensive experience across various levels of academia enables to develop innovative engineering approaches to have a positive impact on people, the planet, communities, and various economic sectors. With expertise in industrial activities, teaching and research centers meet all criteria for being in an academic position. An author of more than 250 scientific papers published in internationally accredited Journals with H-index 55 and number of Citations 16000 (Google Scholar). Receiving the National Award as outstanding Researcher in Engineering, Iran (2020) and National Distinguished Professor in Engineering, Iran (2023). Being selected as the National Distinguished Scientist in industry and society, Iran, (2021). Nominating in the list of the top 2% Scientists in the world since 2019. Secured approximately one million USD and supervised 78 postgraduates from both faculties of Environmental/Chemical Engineering and Applied Chemistry.

Education

Ph.D., Environment Engineering, University Science Malaysia (USM), Penang, Malaysia, 2006.
Thesis title: Biological treatment of palm oil mill effluent (POME) using an up-flow anaerobic sludge fixed-film (UASFF) bioreactor
M.E. Environment Engineering, Tehran Researches and Sciences Campus -Azad University. Iran, 1997.
B.S. Applied Chemistry, Arak University, Iran, 1994.

Academic Experience

Present – 2023
Adjunct Professor, Australian Center for Water and Environmental Biotechnology, The University of Queensland, Australia.

2022 - 2021
Visiting Professor, Department of Environmental Sciences, College of Agriculture and Environmental Sciences, University of South Africa.

2019 - Present
Professor, Environmental Research Center (ERC), Razi University, Kermanshah, Iran.

2013 - 2019
Associate Professor, Environmental Research Center (ERC), Razi University, Kermanshah, Iran.

2009 - 2013
Assistant Professor, Environmental Research Center (ERC), Razi University, Kermanshah, Iran.

2001 - 2009
Lecturer, Water and Environment Division, Power and Water Institute for Applied and Scientific Higher Education (Mojtama-e-Gharb), Kermanshah.

Research Experience	Biological wastewater treatment systems, MBR, IFAS, MBBR, MABR,.. Nutrient recovery, Membrane technology, Novel integrated treatment methods, Anaerobic digestion, Bio-Hydrogen production, Microbial fuel cell, Photocatalysis for disinfection and/or removal of recalcitrant matters, Physiochemical treatment
Teaching Experience	**BS. Courses:** Environmental engineering Wastewater engineering Industrial wastewater treatment Water treatment Water quality **MS. Courses:** Water and wastewater treatment processes Environmental biotechnology Renewable energies Reaction engineering (Reactor design) **PhD Courses:** Application of bioreactors in wastewater treatment Advanced reaction engineering (Heterogenous reactors) Advanced wastewater treatment Wastewater treatment plant design and operation
Academic Honors	1. **National Distinguished Professor in Engineering**, 2023. 2. **National Distinguished Researcher in Engineering**, 2019-2020. 3. **National Distinguished Scientist in relation with industry and society,** 2020-2201. 4. **In the list of top 2 % Scientists of the World**, since 2020 **5. Distinguished talented researcher at University of South Africa, South Africa,** 2023. 6. Distinguished Researcher at Kermanshah Province, 2023-2024. 7. Distinguished Researcher at Kermanshah Province, 2022-2023. 8. Distinguished Researcher at Kermanshah Province, 2021-2022. 9. Distinguished Researcher at Kermanshah Province, 2020-2021. 10. Distinguished Researcher at Razi University, 2020-2021. 11. Distinguished Researcher at Razi University, 2019-2020. 12. Distinguished Researcher at Razi University, 2018-2019. 13. Distinguished Researcher at Razi University, 2017-2018. 14. Distinguished Researcher at Razi University, 2016-2017. 15. Distinguished Researcher at Razi University, 2015-2016.
Inventions	1. A Novel Single Hybrid Airlift Bioreactor for Wastewater Treatment, US Patent App. 17/914,326 2. A single airlift aerobic/anoxic/anaerobic bioreactor with continuous regime

	for simultaneous removal of carbon and nutrients from wastewater, 2016, Iran. 3. An integrated airlift bioreactor equipped with a rotating spiral settler for simultaneous removal of carbon and nutrients from wastewaters containing recalcitrant compounds, 2019, Iran. 4. Fabrication of PES membrane with high flux and antifouling properties, 2019, Iran. 5. Polymeric Membrane modified with MOFs and Its application in treatment of oily wastewater, 2019, Iran. 6. Fabrication of polymeric membrane with silica meso porous modified with metformin for oily wastewater treatment, 2020, Iran.
Administrative Experience	1. Managing director of Consulting Engineering Company 'Parzhak Shimi", Kermanshah, Iran, 1997-2000. 2. Senior expert of Environment Lab., Department of Environment, Kermanshah, Iran, 1999-2001. 3. Academic affairs management, Power and Water Institute for Applied Scientific Higher Education (Mojtama-e-Gharb), Kermanshah, Iran, 2001-2003. 4. Dean, Water and Environment Division, Power and Water Institute for Applied Scientific Higher Education (Mojtama-e-Gharb), Kermanshah,), Iran, 2003. 5. Management member of Consulting Engineering Company 'Zist Pardazesh Bakhtar", Kermanshah, Iran, 2003-present. 6. Vice Chancellor in Education Affairs, Power and Water Institute for Applied Scientific Higher Education (Mojtama-e-Gharb), Kermanshah, Iran, 2007-2009. 7. Head, Chemical Engineering Department, Faculty of Energy, Kermanshah University of Technology, Kermanshah, Iran, 2009-2010. 8. Deputy Dean in education and research affairs, Faculty of Chemistry, Razi University, Kermanshah, Iran, 2010-2011. 9. Head of Office for Academic and International Cooperation, Razi University, Kermanshah, Iran, 2011-2014. 10. Head, Environmental Research Center, Razi University, 2016-present. 11. Head, Department of Applied Chemistry, 2017-present.
Academic Services	**Editorial board member of scientific journals:** 1. Journal of Water Process Engineering (Elsevier), since 2022 2. Journal of Applied Research in Water and Wastewater, since 2014 3. Iranian Journal of Energy and Environment, since 2014 **Reviewed for Internationally Accredited Journals:**

	1. Water Research 2. Chemical Engineering Journal 3. Taiwan Institute Journal for Chemical Engineers 4. Journal of Cleaner Production 5. Journal of Hazardous Materials 6. Journal of Industrial and Engineering Chemistry 7. Journal of Membrane Science 8. Chemosphere 9. Bioresource Technology 10. Separation and Purification Technology 11. International Journal of Hydrogen Energy 12. Environmental Technology 13. Journal of Environmental Management 14. Water Science and Technology 15. Journal of Water Process Engineering 16. Ecological Engineering 17. International Journal of Environmental Scienc
Entrepreneur-ship Activity	• Establishment of knowledge-based Company (Danab Co.) for the production of technological products and specialized engineering services In line with the university's mission in entrepreneurship and production of knowledge-based products, Danab Company was established in cooperation with Science and Technology Park-Kermanshah University of Medical Science in 2014. Using the university facilities and our company's research and development team, knowledge-based products, including peristaltic pump, digital gas flowmeter, COD reactor, innovative electrocoagulation package for wastewater treatment were approved by the Vice President for Science and Technology, Iran. Danab company has been successful in production of sanitizing solution, designing and fabricating a novel 5 m^3-electrocoagolation package in a single unit for car wash wastewater treatment, study of water and wastewater management of Kermanshah's refinery project, commercialization of peristaltic pump, and management and operation of Kermanshah's hospital waste sanitary landfill which has resulted in hiring 10 university graduates. The projects being implemented by the Research and Development (R&D) unit are as follows: 1. Design and fabrication an innovative settling tank with a spiral separator to remove suspended solids with one-tenth of retention time for conventional settling tank. 2. Design and fabrication of an integrated A2O bioreactor to remove recalcitrant compounds from industrial wastewater 3. Design and fabrication of modified membranes with carbon quantum dots (CQD) containing high anti-biofouling performance for efficient wastewater treatment 4. Fabrication of nanofiltration and ultrafiltration membranes with hydrophilic and anti-biofouling properties as supplemental treatment to generate hygienic water from biologically treated wastewater 5. Synthesize a new biodegradable poly electrolyte with high comprisiblity to be used in coagulation unit.
Profession Affiliations	• Professional member of Water Institute of South Africa. • Member of the Iranian Society of Chemistry. • Member of the Iranian Society of Chemical Engineering. • Member of the Iranian Society of Environmentalists (IRSEN). • Member of the Iranian Association of Environmental Health. • Member of the Iranian Professional Association. • Member of Postgraduate Student Society in School of Chemical Engineering, University Science Malaysia (USM), Penang, Malaysia.

Consulting activities and granted research projects

1. Environmental Impact Assessment (EIA) of the LAB production plant, Bistoon petrochemical company, Kermanshah, Iran, 2000.
2. Environmental Impact Assessment (EIA) of the ammonia urea fertilizer production plant, Kermanshah petrochemical company, Kermanshah, Iran, 2001.
3. Environmental Impact Assessment (EIA) of development of Faraman industrial sector, Industrial sectors company, Kermanshah, Iran, 2001.
4. Environmental Impact Assessment (EIA) of BD and ABS production plant, Tabriz petrochemical company, Tabriz, Iran, 2001-2002.
5. Environmental Impact Assessment (EIA) of steel production plant, Steel industries company, Kordestan, Iran, 2002.
6. Environmental Impact Assessment (EIA) of steel production plant, Steel industries company, Hamadan, Iran, 2002-2003.
7. Environmental Impact Assessment (EIA) of steel production plant, Jahan Foolad-e-Gharb, Steel industries company, Kordestan, Iran, 2002.
8. Environmental Impact Assessment (EIA) of gas transformation lines between Kermanshah and Kordestan, Oil national industries company, Kermanshah, Iran, 2003-2004.
9. Study of the effects of agricultural pesticides on ground water quality in eastern north of Kermanshah, Department of environment of Kermanshah, Iran, 1999.
10. Study of the effects Kermanshah sanitary landfill on ground water quality in eastern north of Kermanshah, Department of environment of Kermanshah, Iran, 1999.
11. Design of industrial wastewater treatment plant for powdered milk production plant, Basim Poodre Gharb Company. Kermanshah, Iran, 2002.
12. Design of industrial wastewater treatment plant for chewing gum production plant, Saghez-e-Kordestan Company. Kordestan, Iran, 2002.
13. Design of industrial wastewater treatment plant for Ice cream production plant, Kermanshah, Iran, 2002.
14. Start up and operation of tannery wastewater treatment plant, Songhor tannery company, Kermanshah, Iran, 1999-2000.
15. Environmental Impact Assessment (EIA) of used oil recovery plant, Kermanshah, Iran, 2006-2007.
16. Study of urban air pollution in Kermanshah city, Department of Environment of Kermanshah, Iran, 2002-2007.
17. Study of urban air pollution in Islam Abad city, Department of Environment of Kermanshah, Iran, 2002-2007.
18. Modeling hydrogen sulfide emission from sewer: A case study for Kermanshah city, Water and Wastewater Company, Kermanshah, Iran, 2008-2010.
19. Start up and operation of poultry wastewater treatment plant-anaerobic digester, Sonqor, Kermanshah, Iran, 2010.
20. Physico-chemical characteristics of water resources in rural areas, Kermanshah province, using GIS, Roostaei Water and Wastewater Company, Kermanshah, Iran, 2009-2011.
21. Start up and operation of poultry wastewater treatment plant-anaerobic digester, Ghazanchi, Kermanshah, Iran, 2010-2011.
22. Feasibility study on industrial wastewater treatment generated from seed production plant, Pak Mayeh Company, Kermanshah, Iran, 2011-2012.
23. Control and reduction river pollution, a case study for Gharasoo river, Kermanshah, Iran, 2010-2011.
24. Process optimization of Faraman's Industrial wastewater treatment plant, Kermanshah Industrial Estate Company, Kermanshah, Iran. 2011-2012.

25. Optimization and upgrading of Bistoon wastewater treatment plant using MBBR, Kermanshah, Iran. 2013-2015.
26. Water reuse using a combined system: ultrasound augmented CFID reactor and nanofilteration membrane, 2013-2015.
27. Up-grading Kermanshah's municipal wastewater treatment plant in order to carbon and nutrients removal and energy optimization, Kermanshah, Iran. 2014-ongoing.
28. Treatment trend in wastewater collection lines in Kermanshah, Iran. 2014-2016.
29. Catalytic production of biodiesel from algal oil and surplus sludge from wastewater treatment plants. 2014-2016.
30. Design and fabrication of 5-m3 UAASBR package treating sanitary wastewater power-supplied by solar energy, Kermanshah, Iran. 2014-2018.
31. Feasibility study of development of a MFC in order to electricity generation from anaerobic wastewater treatment as an approach reducing cost and energy consumption, Iran. 2014-2016.
32. Application of antifouling nanofilteration membrane to remove algal-based color and odor from water resources: A case study on Gavoshan's dam reservoir. Kermanshah, Iran. 2014-2016.
33. Application of nanotechnologies in removal of pollutants from water resources: A case study on Soleimanshah's dam reservoir, Kermanshah, Iran. 2014-2017.
34. Wastewater reuse in a novel single ultrasound-augmented membrane bioreactor (USMBR), INSF, Iran. 2013-2015.
35. Environmental database for Kermanshah Province-Iran, 2014-2017.
36. Hygienic water reuse and bioplastic production from industrial soft drink wastewater in a novel integrated membrane bioreactor with CFID regime and capable for simultaneous CNP removal, INSF. 2016-2018.
37. Feasibility study on Islam Abad's WWTP upgrade with emphasizing on algae removal from the treated effluent, Kermanshah's water and wastewater company, 2018-2020.
38. Environmental Impact Assessment (EIA) of Anahita Oil Refinery Company, Kermanshah, Iran, 2018-2020.
39. Kermanshah's oil refinery water and wastewater management in order to achieve the goal of sustainable development by recycling treated wastewaters, Kermanshah's Oil Refinery Company- 2018-2020.
40. Process optimization and scale-up study of a novel A2O hybrid membrane airlift bioreactor integrated with an internal rotating spiral settler for simultaneous CNP removal from industrial wastewater, INSF, 2020-2022.
41. Water quality monitoring in Kermanshah's water resources- Kermanshah Regional Water Company, 2020-2022.
42. Site selection for hazardous wastes, Department of Environment, Kermanshah, Iran, 2020-2022.
43. BZN2 catalyst waste management in Kermanshah Polymer plant, 2022-2023.
44. Minimization of water consumption and optimization of wastewater treatment of Bistoon beet sugar factory, 2023-2024.
45. Microbial desalination cell coupled with reverse osmosis for cost effective and efficient desalination, Sasol-NRF Research Grant, South Africa, 2022-2024.

Publications in Refereed Journals

1. Z Rahimi, AA Zinatizadeh, S Zinadini, M van Loosdrecht, DJ Batstone, (2025) A high-rate A2O bioreactor with airlift-driven circulation and anoxic hybrid growth for enhanced carbon and nutrient removal from a nutrient rich wastewater, **Chemosphere**, 370, 143811.

2. Z Rahimi, AA Zinatizadeh, S Zinadini, M van Loosdrecht, DJ Batstone, (2025) Effect of microbial growth types (suspended and attached) in anoxic zone of innovative one-stage anaerobic/anoxic/oxic bioreactor with airlift regime on nitrogen removal, **Journal of Cleaner Production** 486, 144303
3. F Oulad, AA Zinatizadeh, S Zinadini, A Razmjou, (2025) An efficient approach in water desalination using high flux induced magnetic-field hydroxyl-functionalized MgFe2O4/CA RO membranes with organic/inorganic fouling control capability, **Journal of Membrane Science** 715, 123437.
4. Z Rahimi, AA Zinatizadeh, S Zinadini, M van Loosdrecht, DJ Batstone, (2024), Concurrent removal of carbon and nutrients in a one-stage dual internal circulation airlift A2O bioreactor from milk processing industrial wastewater: Process optimization, **Chemosphere**, 141804.
5. L Mafhala, N Khumalo, NE Zikalala, S Azizi, KJ Cloete, GK More, IA Kamika, T Mokrani, AA Zinatizadeh, M Maaza, (2024), Antibacterial and cytotoxicity activity of green synthesized silver nanoparticles using aqueous extract of naartjie (Citrus unshiu) fruit peels, **Emerging Contaminants**, 100348.
6. NE Zikalala, S Azizi, FT Thema, KJ Cloete, AA Zinatizadeh, T Mokrani, N Mketo, M Maaza, (2024), Modification of graphene-based nanomaterials with gamma irradiation as an eco-friendly approach for diverse applications: A review, **FlatChem**, 100662.
7. S. Paziresh, A. Dehqan, S. Zinadini, AA Zinatizadeh, V. Vatanpour, (2024), Rosemary particle as a new green additive to improve polysulfone membrane separation performance in removal of organic pollutants, **Journal of Separation and Purification Technology**, 334, 126015.
8. A Dehqan, AA Zinatizadeh, S Zinadini, A Harifi-Mood, SS Shahabi, V Vatanpour, (2024), Fabrication of high-performance and high-fouling resistance reverse osmosis membrane by a natural deep eutectic solvent (NDES) as a new generation of co-solvents, **Journal of Membrane Science**, 122679.
9. S Moradi, AA Zinatizadeh, S Zinadini, (2024), Post-treatment of soft drink industrial wastewater using a new antibacterial ultra-filtration membrane prepared of Polyethersulfone blended with boehmite–tannic acid–graphene, **Water Environment Research** 96 (2), e10997.
10. A Nouri, AA Zinatizadeh, S Zinadini, M Van Loosdrecht, (2024), Enhancing nitrogen removal from wastewater in a low C/N ratio using an air-lift bio-electrochemical reactor (ALBER), **Journal of Environmental Management** 350, 119373
11. F Oulad, S Zinadini, AA Zinatizadeh, AA Derakhshan, N Hassani, Davoud Yazdani, (2023) Development and investigation of high-flux antifouling NF PES membranes decorated by aniline oligomers and application for wastewater treatment. **Polymers for Advanced Technologies**, doi.org/10.1002/pat.6234
12. AA Zinatizadeh, F Oulad, S Moradi, P Mohammadi, S Azizi, L Sibali, A Mohamed, (2023). Acid mine drainage (AMD) treatment using a novel tannic acid functionalized Boehmite/polyether sulfone nanofiltration membrane, **Journal of Water Process Engineering** 56, 104373.
13. M Gholamiveisi, S Zinadini, AA Zinatizadeh, (2023). High-performance CPES nanofiltration membrane decorated by cinnamon extract with efficient antibacterial/anti-fouling property for post treatment of biologically treated, **Journal of Environmental Chemical Engineering**, 110906.
14. F Jalali, AA Zinatizadeh, A Asadi, S Zinadini, (2023). A moving bed biofilm reactor coupled with an upgraded nanocomposite polyvinylidene fluoride membrane to treat an industrial estate wastewater, **Chemical Engineering Journal**, 144128

15. NE Zikalala, SA Zikalala, S Azizi, IA Kamika, EN Nxumalo, AA Zinatizadeh, (2023). The Role of Inorganic and Carbon Nanomaterials in Surface Modification to Attain Antibiofouling Polymeric Membranes for Water Treatment– A Review, **Industrial & Engineering Chemistry Research.**
16. SA Habeeba, AA Zinatizadeh, SA Mousavid, H Zangeneheh, (2023). Visible Light Activated Fe-N-SiO2/TiO2 Photocatalyst: Providing an Opportunity for Enhanced Photocatalytic Degradation of Antibiotic Oxytetracycline in Aqueous Solution, ***International Journal of Engineering, Transactions A: Basics*** 36 (04), 615
17. M Abdulgader, QJ Yu, AA Zinatizadeh, P Williams, Z Rahimi, (2023). Treatment capacity of a novel flexible fibre biofilm bioreactor treating high-strength milk processing wastewater, ***Environmental Technology*** 44 (7), 1001-1017
18. SA Habeeb, AA Zinatizadeh, H Zangeneh, (2023). Photocatalytic Decolorization of Direct Red16 from an Aqueous Solution Using B-ZnO/TiO2 Nano Photocatalyst: Synthesis, Characterization, Process Modeling, ***Water*** 15 (6), 1203
19. M Abdulgader, QJ Yu, AA Zinatizadeh, P Williams, Z Rahimi, (2023). Oxygen transfer and hydrodynamic evaluation in a multistage flexible fibre biofilm reactor, ***International Journal of Environmental Science and Technology***, 1-10
20. M Dolatshah, AA Zinatizadeh, S Zinadini, H Zangeneh, (2023). A new UV-grafted photocatalytic membrane for advanced treatment of biologically treated baker's yeast (BTY) effluent: Fabrication, characterization and performance evaluation, ***Process Safety and Environmental Protection*** 170, 608-622
21. H Rezaei, AA Zinatizadeh, M Joshaghani, S Zinadini, (2023). Amino acid-based carbon quantum dot modified MIL-53 (Fe): Investigation of its visible-driven photocatalytic activity provided by a highly efficient photoreactor, ***Materials Science in Semiconductor Processing*** 154, 107190
22. BS Zainal, S Zaini, AA Zinatizadeh, NS Mohd, S Ibrahim, PJ Ker, (2023). Preliminary Investigation of Different Types of Inoculums and Substrate Preparation for Biohydrogen Production, ***Fermentation*** 9 (2), 127
23. M Abdulgader, J Yu, AA Zinatizadeh, P Williams, Z Rahimi, (2023).Effect of Different Operational Conditions on the Treatment Performance of Milk Processing Wastewater (MPW) Using a Single Stage Flexible Fibre Biofilm Reactor (SS-FFBR), ***Membranes*** 13 (1), 37
24. F Gholami, G Ghanizadeh, AA Zinatizadeh, S Zinadini, H Masoumbeigi, (2023).Design of a new polyethersulfone nanofiltration membrane with anti-fouling properties using supported protic ionic liquid modification for dye/salt removal, ***Water Environment Research*** 95 (1), e10829
25. A Vakili, AA Zinatizadeh, Z Rahimi, S Zinadini, P Mohammadi, S Azizi, (2023).The impact of activation temperature and time on the characteristics and performance of agricultural waste-based activated carbons for removing dye and residual COD from wastewater, ***Journal of Cleaner Production*** 382, 134899.
26. F Gholami, S Zinadini, AA Zinatizadeh, S Sanjabi, AR Mahdavian, (2023). pH stimuli-responsive and fouling resistance PES membrane fabricated by using photochromic spiropyran and spironaphthoxazine nanofillers for pesticide removal, ***Polymers for Advanced Technologies*** 34 (1), 332-350
27. M Samari, S Zinadini, A Zinatizadeh, M Jafarzadeh, F Gholami, (2023). Separation of Oil-Water Emulation with High Efficiency Using Mixed Matrix Microfiltration Modified *Membrane,* ***Environment*** **and Water Engineering** 8 (4), 940-950.

28. Ganji, S Nazari, AA Zinatizadeh, S Zinadini, (2022). Chitosan-wrapped multi-walled carbon nanotubes (CS/MWCNT) as P nanofillers incorporated into nanofiltration (NF) membranes aiming at remarkable water purification, ***Journal of Water Process Engineering*** 48, 102922.
29. Zangeneh, H., AA Zinatizadeh, S Nazari, M Joshaghani, S Zinadini, L Sibali, (2022). M Feyzi, Highly efficient azo dye degradation in a photocatalytic rotating disc reactor with deposited l-histidine-TiO2-CdS, **Materials Science in Semiconductor Processing** 152, 107071.
30. G Moradi, R Heydari, S Zinadini, M Rahimi, AA Zinatizadeh, F Gholami, (2022).Fouling alleviation and enhanced salt rejection in NF membranes via incorporation of 5-amino-1-phenyl-3-(thiophen-2-yl)-1H-pyrazole-4-carbonitrile functionalized pectin in PES, ***Journal of Water Process Engineering*** 48, 102888.
31. MA Zahed, S Salehi, Y Tabari, H Farraji, S Ataei-Kachooei, (2022) Phosphorus removal and recovery: state of the science and challenges, ***Environmental Science and Pollution Research***, 1-29.
32. F Gholami, A Asadi, AA Zinatizadeh, Efficient heavy metals and salts rejection using a novel modified polysulfone nanofiltration membrane, (2022). ***Applied Water Science*** 12 (7), 1-18.
33. V Vatanpour, A Dehqan, S Paziresh, S Zinadini, AA Zinatizadeh, (2022). Polylactic acid in the fabrication of separation membranes: A review,
34. ***Separation and Purification Technology***, 121433.
35. A Asadi, F Gholami, AA Zinatizadeh, (2022). Enhanced oil removal from a real polymer production plant by cellulose nanocrystals-Serine incorporated polyethersulfone ultrafiltration membrane, ***Environmental Science and Pollution Research*** 29 (25), 37144-37158.
36. H Zangeneh, M Farhadian, AA Zinatizadeh, (2022). A reusable visible driven N and C–N doped TiO2 magnetic nanocomposites for photodegradation of direct red 16 azo dye in water and wastewater, ***Environmental Technology*** 43 (9), 1269-1284.
37. S Abbasi, AA Zinatizadeh, M Mirghorayshi, S Zinadini, T McKay, (2022). Electrocoagulation technique for continuous industrial licorice processing wastewater treatment in a single reactor employing Fe-rod electrodes: Process modeling and optimization, ***Journal of Environmental Chemical Engineering*** 10 (2), 106686.
38. A Asadi, F Gholami, AA Zinatizadeh, H Jaberi, (2022). Application of novel nanofiltration membranes embedded with mesoporous carbon based nanoparticles for desalination and dye removal, ***Chemical Papers*** 76 (3), 1349-1363.
39. F Gholami, S Zinadini, SN Kamrani, AA Zinatizadeh, K Bahrami, (2022), Color removal from wastewater using a synthetic high-performance antifouling GO-CPTMS@ Pd-TKHPP/polyether sulfone nanofiltration membrane, ***Environmental Science and Pollution Research*** 29 (14), 20463-20478.
40. H Zangeneh, AA Zinatizadeh, S Zinadini, S Nazari, L Sibali, T McKay, (2022). Visible light-driven photoactive L-Methionine (CNS tripledoped)-TiO2/ZnO nanocomposite aiming for highly efficient photodegradation of xenobiotic compounds in wastewater, ***Materials Research Bulletin***, 111783.
41. P Andami, AA Zinatizadeh, M Feyzi, H Zangeneh, S Azizi, L Norouzi, (2022). Optimization of Biodiesel Production from Sunflower Oil Transesterification using Ca-K/Al2O3 Nanocatalysts, ***International Journal of Engineeing*** 35 (2), 351-359.
42. N Saniei, N Ghasemi, AA Zinatizadeh, S Zinadini, M Ramezani, (2022). Electricity generation enhancement in microbial fuel cell via employing a new SPEEK based proton exchange membrane modified by goethite nanoparticles

functionalized with tannic, ***Environmental Technology & Innovation*** 25, 102168.
43. M Moradi, AA Zinatizadeh, S Zinadini, S Azizi, M Maaza, (2022). Decolorization of baker's yeast wastewater by nanofiltration membrane and performance evaluation using response surface methodology (RSM), ***Journal of the Iranian Chemical Society*** 19 (2), 635-644.
44. F Gholami, AA Zinatizadeh, S Zinadini, BE Rittmann, CI Torres, (2022). Enhanced antifouling and flux performances of a composite membrane via incorporating TiO2 functionalized with hydrophilic groups of L-cysteine for nanofiltration, **Polymers advanced technologies.**
45. F Oulad, S Zinadini, AA Zinatizadeh, AA Derakhshan, (2022). Influence of diazonium-induced surface grafting on PES NF membrane fouling reduction in algal-rich water treatment, ***Polymers for Advanced Technologies*** 33 (1), 34-48.
46. S Zinadini, AA Zinatizadeh, AA Derakhshan, (2022). Preparation and characterization of high permeance functionalized nanofiltration membranes with antifouling properties by using diazotization route and potential application, ***Separation and Purification Technology*** 280, 119639.
47. Mirghorayshi, M., Zinatizadeh, A. A., & van Loosdrecht, M. (2021). Simultaneous biodegradability enhancement and high-efficient nitrogen removal in an innovative single stage anaerobic/anoxic/aerobic hybrid airlift bioreactor (HALBR) for composting leachate treatment: Process modeling and optimization**.** ***Chemical Engineering Journal***, *407*, 127019.
48. Nazari, S., Zinatizadeh, A. A., Mohammadi, P., & Zinadini, S. (2021). Kermanshah's oil refinery water and wastewater management: providing a sustainably potential platform for water consumption minimization through wastewater reclamation. ***Journal of Applied Research in Water and Wastewater***, *8*(1), 28-35.
49. Zinadini, S., Zinatizadeh, A. A., & Derakhshan, A. A. (2021). Preparation and characterization of high permeance functionalized nanofiltration membranes with antifouling properties by using diazotization route and potential application for licorice wastewater treatment. ***Separation and Purification Technology***, 119639.
50. Zangeneh, H., Zinatizadeh, A. A., Rahimi, Z., Zinadini, S., Sadeghi, M., & Abdulgader, M. (2021). Evaluation of dynamic behavior of hydrophilic and photocatalytic self-cleaning PES nanofiltration membrane post treating biologically treated palm oil mill effluent (POME). ***Chemical Engineering and Processing-Process Intensification***, 108635.
51. Azar Asadi , Farinaz Ahmadi, AliAkbar Zinatizadeh, Ali Namvar Asl, (2021). A Review on Influential Factors on Polyhydroxyalkonates (PHA) Production with Feast /Famine Regime Using Waste Sludge from Biological Wastewater Treatment, ***Journal of Water & Wastewater Science and Engineering****,* 6(1), 15-29.
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Supervision of Postgraduate students

No.	Name of student	Degree	Position	Year	University
1	Gholamreza Eghbali	M.S. in Biotechnology	Co-supervisor	2000-2001	Islamic Azad Uni., Tehran
2	Keivan Farokhi	MS. in Env. Eng.	Co-supervisor	2001-2002	Islamic Azad Uni., Tehran
3	Abdulghader Mohamed	PhD in Env. Eng.	Co-supervisor	2006-2011	Griffith Uni., Australia
4	Mojtaba Hadavifar	MS. in Env. Sci.	Co-supervisor	2007-2008	Tarbiat Modares University
5	Azam Akhbari	MS. in Analytical Chem.	Supervisor	2008-2010	Razi university
6	Zahra Goorani	MS. In Agricultural Engineering	Co-supervisor	2009-2011	Razi University
7	Yadollah Mansouri	MS. in Analytical Chem.	Supervisor	2008-2010	Razi university
8	Azar Asadi	MS. in Applied Chem.	Supervisor	2010-2011	Razi university
9	Gholam reza Ghalekhani	MS. in Applied Chem.	Supervisor	2010-2012	Razi university
10	Parastoo Setareh	MS. in Env. Eng.	Co-supervisor	2010-2011	Islamic Azad Uni., Tehran
11	Zahra Bahman	Ms. In Microbiology	Co-supervisor	2010-2012	Islamic Azad Uni., Qom
12	Zahra Sheikhi	MS. in Applied Chem.	Supervisor	2010-2013	Razi university
13	Moazameh Mesgar	MS. in Applied Chem.	Supervisor	2010-2012	Razi university
14	Maryam Habibi	MS. in Applied Chem.	Supervisor	2010-2013	Razi university
15	Hadis Zangeneh	MS. in Applied Chem.	Supervisor	2010-2013	Razi university
16	Maliheh Amini	PhD in Env. Sci.	Co-supervisor	2010-2012	Tarbiat Modares University
17	Hayrosh Masoudnia	Ms. Civil Engineering	Co-supervisor	2011-2013	Razi University
18	Mahdi Moradi	Ms. In Applied Chem.	Supervisor	2012-2013	Razi University
19	Sirus Zinadini	PhD in Applied Chem.	Co-Supervisor	2011-2015	Razi University
20	Azar Asadi	PhD in Applied Chem.	Supervisor	2012-2016	Razi University
21	Zahra Rahimi	Ms. In Applied Chem.	Supervisor	2012-2013	Razi University
22	Soheila Rezaei	MS. in Applied Chem.	Supervisor	2012- 2013	Razi university
23	Kolsoum Aftabi	MS. in Applied Chem.	Supervisor	2012- 2013	Razi university
24	Elnaz Gheitoli	MS. in Applied Chem.	Co-supervisor	2012- 2013	Kerman Shahid Bahonar Uni
25	Amir Noori	Ms. In Applied Chem.	Supervisor	2013-2014	Razi University
26	Zahra Vafaei	Ms. In Applied Chem.	Supervisor	2013-2014	Razi University
27	Hadis Zangeneh	PhD in Applied Chem.	Supervisor	2013-2018	Razi university
28	Elham Nouri	PhD in Nano Chem.	Co-supervisor	2013-2018	Razi university
29	Davood Yazdani	PhD in Nano Chem.	Co-supervisor	2013-2018	Razi university
30	Mahdi Jamshidi	Ms. In Applied Chem.	Supervisor	2013-2014	Razi University
31	Sajedeh Rahimi	Ms. In Applied Chem.	Supervisor	2014-2015	Razi University
32	Parisa Andami	Ms. In Applied Chem.	Supervisor	2014-2015	Razi University
33	Saba Abdul Monem	Ms. In Applied Chem.	Supervisor	2014-2015	Razi University
35	Saba Abdul Monem	PhD In Applied Chem.	Supervisor	2015-2022	Razi University
36	Zahra Rahimi	PhD In Applied Chem.	Supervisor	2015-2022	Razi University

37	Farzaneh Falahi	Ms. In Applied Chem.	Supervisor	2014-2016	Razi University
38	Pouria Ganji	Ms. In Applied Chem.	Supervisor	2014-2016	Razi University
39	Mohammad Ataei	Ms. In Applied Chem.	Supervisor	2015-2017	Razi University
40	Foad Gholami	Ms. In Applied Chem.	Supervisor	2015-2017	Razi University
41	Arghavan Vaysizadeh	Ms. In Applied Chem.	Supervisor	2015-2018	Razi University
42	Farinaz Ahmadi	Ms. In Applied Chem.	Supervisor	2015-2018	Razi University
43	Houman Rezaei	PhD In Applied Chem.	Supervisor	2016-ongoing	Razi University
44	Nasim Saniee	PhD In Applied Chem.	Supervisor	2015-2020	IAU-Arak
45	Hajar Abyar	PhD In Environment	Co-supervisor	2014-2018	Tarbiat Modares University
46	Foad Gholami	PhD In Applied Chem.	Supervisor	2017-2022	Razi University
47	Amir Nouri	PhD In Applied Chem.	Supervisor	2017-ongoing	Razi University
48	Adel Vakili	Ms. In Applied Chem.	Supervisor	2016-2020	Razi University
49	Sasan Abbasi	Ms. In Applied Chem.	Supervisor	2016-2018	Razi University
50	Roshanak Halvaei	PhD In Applied Chem.	Supervisor	2018-ongoing	Razi University
51	Negin Shabani	Ms. In Applied Chem.	Co-Supervisor	2016-2018	Razi University
52	Fariba Ollad	Ms. In Applied Chem.	Co-Supervisor	2016-2018	Razi University
53	Sahar Moradi	Ms. In Applied Chem.	Supervisor	2017-2020	Razi University
54	Sayeh Vaysi	Ms. In Applied Chem.	Supervisor	2017-2020	Razi University
55	Mahya Samari	Ms. In Applied Chem.	Co-Supervisor	2017-2019	Razi University
56	Safoora Nazari	Ms. In Applied Chem.	Supervisor	2018-2020	Razi University
57	Zahra Hadi Kamal	Ms. In Applied Chem.	Supervisor	2018-2022	Razi University
58	Fariba Ollad	PhD In Applied Chem.	Supervisor	2019-ongoing	Razi University
59	Ali Kanjoorian	Ms. In Applied Chem.	Co-Supervisor	2018-ongoing	Razi University
60	Zahra Salimi	Ms. In Applied Chem.	Co-Supervisor	2018-2023	Razi University
61	Safoora Nazari	PhD In Applied Chem.	Supervisor	2020-ongoing	Razi University
62	Ahmad Dehqan	PhD In Applied Chem.	Supervisor	2020-ongoing	Razi University
63	Shadi Paziresh	PhD In Applied Chem.	Supervisor	2021-ongoing	Razi University
64	Vahid Safaei	Ms. In Applied Chem.	Supervisor	2021-2023	Razi University
65	Somayeh Daneshian	Ms. in Applied Chem.	Supervisor	2020-2023	Razi University
66	Nkosingiphile E. Zikalala	PhD in Chemical Eng.	Co-suppervisor	2022-ongoing	University of South Africa
67	Livhuwani Mafhala	Ms. In Chemical Eng.	Co-suppervisor	2022-ongoing	University of South Africa
68	Mina Doulatshah	PhD in Applied Chem.	Supervisor	2022-ongoing	Razi University
69	Zahra Shaykhi	PhD in Applied Chem.	Supervisor	2022-ongoing	Razi University
70	Sahar Moradi	PhD in Applied Chem.	Supervisor	2023-ongoing	Razi University
71	Sahar Karami	Ms. in Applied Chem.	Supervisor	2021-ongoing	Razi University
72	Zahra Niazi	Ms. in Applied Chem.	Supervisor	2021-ongoing	Razi University
73	Bahareh Rahmani	Ms. in Applied Chem.	Supervisor	2021-ongoing	Razi University
74	Maedeh Gholamiveisi	PhD in Applied Chem.	Supervisor	2022-ongoing	Razi University
75	Fatemeh Jalali	PhD in Applied Chem.	Co-Supervisor	2023-ongoing	Razi University
76	Laya Galehvani	PhD in Applied Chem.	Co-Supervisor	2023-ongoing	Razi University
77	Somayeh Kahrizi	Ms. In Applied Chem.	Supervisor	2022-2024	Razi University
78	Reza Azimizadeh	Ms. In Applied Chem.	Supervisor	2022-2024	Razi University
79	Kosar Rahmani	Ms. In Applied Chem.	Supervisor	2021-2023	Razi University
80	Faezeh Rezaei	Ms. In Applied Chem.	Supervisor	2021-2023	Razi University
81	Mozhgan Ezzati	PhD in Applied Chem.	Co-Supervisor	2023-ongoing	Razi University
82	Afsaneh Padidar	PhD in Applied Chem.	Supervisor	2023-ongoing	Razi University
83	Hadis Hakimi	PhD in Applied Chem.	Co-Supervisor	2023-ongoing	Razi University

Referees:

1. **Prof. Mark van Loosdrecht**, Department of Biotechnology, Delft University of Technology, van der Maasweg 9, 2629 HZ Delft, the Netherlands, **Email**: M.C.M.vanLoosdrecht@tudelft.nl

2. **Prof. Jimmy Yu,** School of Engineering and Built Environment, Griffith University, Brisbane, Australia, **Email:** jimmy.yu@griffith.edu.au

3. **Prof. Damien Batstone**, Australian Centre for Water and Environmental Biotechnology (ACWEB, formerly AWMC), Gehrmann Building, The University of Queensland, St. Lucia, 4072, Brisbane, Australia, **Email:** d.batstone@uq.edu.au

4. **Assoc. Prof. Nasrin Aghamohammadi,** School of Design and the Built Environment, Faculty of Humanities, Curtin University, Perth, Australia, **Email:** Nasrin@curtin.edu.au

5. **Prof. Shaliza B. Ibrahim,** Associate Vice-Chancellor (Research and Innovation), University of Malaysia, **Email:** Shaliza@um.edu.my

6. **Prof. Mohamed Hasnain Isa,** Faculty of Engineering, Universiti Teknologi Brunei, Jalan Tungku Link Gadong BE1410, Brunei Darussalam, **Email:** mohamed.isa@utb.edu.bn

7. **Prof Habibollah Younesi,** Department of Environmental Science, Tarbiat Modares University, Iran. **Email**: hunesi@modares.ac.ir