



به نام خدا

نام و نام خانوادگی: عباس نوروزیان باغانی

مرتبه علمی: استادیار

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فکس:

آدرس: دانشگاه علوم پزشکی لرستان، دانشکده بهداشت و تغذیه



آدرس صفحه شخصی در سامانه علم سنجی اعضا هیات علمی

آدرس صفحه شخصی در وبسایت دانشگاه

آخرین به روزرسانی:

سوابق تحصیلی و آموزشی

1. فوق تخصص (عنوان رشته، دانشگاه، سال فارغ التحصیلی)

پایان نامه (عنوان، راهنما، مشاور)

2. تخصص (دکتری تخصصی) (مهندسی بهداشت محیط، دانشگاه علوم پزشکی تهران، 1401)

پایان نامه (مدلسازی ارزش حرارتی حاصل از سوخت جامد و بیودیزل تولید شده از روغن های خوراکی زاید حاصل از

آشپزخانه ها و امکان سنجی کاربرد آن در مصارف خانگی، دکتر رامین نبی زاده، دکتر سوده سجادی، دکتر امیر حسین محوی، دکتر

کامیار یغماییان، دکتر مسعود یونسیان)

3. کارشناسی ارشد (مهندسی بهداشت محیط، دانشگاه علوم پزشکی تهران، 1393)

پایان نامه (تأثیر نانو ذرات مگنتیک اصلاح شده با 6O_1 دی آمین هگزان در کارایی حذف کروم و نیکل از محلول های آبی،

دکتر میترا غلامی، دکتر امیر حسین محوی، دکتر نوشین راستکاری)





4. کارشناسی (مهندسی بهداشت محیط، دانشگاه علوم پزشکی شهید بهشتی، 1388)

5. کاردانی (مهندسی بهداشت محیط، دانشگاه علوم پزشکی بقیه الله، 1385)

❖ شرکت در دوره های آموزشی و کارگاه ها

1. Advanced Search, Mendele, and Endnote workshops, Duration:15 days, Certified, 2014-2017
2. First aid principles workshop, Duration:6 days, Certified, Sep 27,2008 to Oct 2,2008
3. Educational strategies and teaching methods workshops, Duration: 2 days, Certified, Jan 1-2,2019
4. Systematic review and meta-Analysis, Duration: 3 days, Certified, Feb 27,2018 to Mar 1,2018
5. High-performance liquid chromatography (HPLC), Duration: 5 days, Certified, May 9-13,2015
6. HACCP, GMP, ISO 22000, Duration: 2 days, Certified, Feb 27-28,2015
7. RStudio course (2 units), Duration: 5 months, Certified, 2019.
8. Advanced RStudio, Duration: 5 months, Certified, Jan 1,2023 to Feb 19,2023
9. Advanced ICLD workshop, Duration:100 hours, Certified, 2015
10. Multiple mini interviews (MMIs) workshops, Duration:2 days, Certified, Aug 8,2016 and Aug 15,2016
11. SewerCAD, Duration:2 days, Certified, Sep 25-26,2012
12. Geographic Information System (GIS), Duration:2 days, Certified, Dec 29,2022 to Feb 19, 2023
13. Basics of water safety program and familiarity with microbial risk assessment (MRA), Duration:1 day, Certified, Feb 7,2023
14. Decentralized greywater management in the rural sectors, Duration:1 day, Certified, Feb 8,2023

❖ تأییدیه ها و مجوز ها

❖ افتخارات و جوایز

1. رتبه اول کنکور دکتری تخصصی مهندسی بهداشت محیط سال 1395-1396

🚩 سوابق کاری

🚩 کارشناس آزمایشگاه، دانشگاه علوم پزشکی شیراز (دانشکده بهداشت) در 1393-1396

🚩 کارشناس HSE، گروه تخصصی نیرو گستر (تهران) در 1398-1399

🚩 مسول اجرایی دومین و اولین کنفرانس ونمایشگاه بین المللی مدیریت پسماند و بازیافت، موسسه سیماتین زیر نظر

دانشگاه مدیریت دانشگاه تهران (همزمان با دوره تحصیلی در دانشگاه علوم پزشکی تهران) در سال 1392-1393

🚩 مسول اجرایی هجدهمین همایش ملی بهداشت محیط (18th national conference on environmental health)،

دانشگاه علوم پزشکی شیراز - دانشکده بهداشت، 1394





❖ سوابق بالینی

❖ سوابق تدریس (در مقاطع زیر)

1. فوق تخصص

2. تخصص

3. کارشناسی ارشد

4. کارشناسی

1. بهداشت محیط 1، نیمسال اول سال 1401-1402، 1 واحد نظری، کارشناسی بهداشت عمومی، علوم پزشکی لرستان (مجتمع سلامت عالی درود)

2. آزمایشگاه مواد زائد جامد نیمسال اول سال 93-96، 3 واحد عملی، کارشناسی بهداشت محیط، علوم پزشکی شیراز (دانشکده بهداشت)

3. بهداشت محیط و حرفه ای نیمسال اول 93-94، 3 واحد نظری / عملی، کارشناسی بهداشت محیط زیست، علوم پزشکی شیراز (کوار)

4. بهداشت محیط و حرفه ای نیمسال اول 54-94، 3 واحد نظری / عملی، کارشناسی HSE علوم پزشکی شیراز (کوار)

5. ایمنی بهداشت محیط کار - نیمسال اول 93-94، 2 واحد نظری، کارشناسی HSE علوم پزشکی شیراز (کوار)

6. ایمنی بهداشت محیط کار - نیمسال اول 93-94، 2 واحد نظری، کارشناسی HSE علوم پزشکی شیراز (کوار)

7. ایمنی بهداشت محیط کار - نیمسال اول 94-95، 2 واحد نظری، کارشناسی بهداشت محیط علوم پزشکی شیراز (کوار)

8. تنظیم شرایط محیطی در صنعت نیمسال اول 95-96، 2 واحد نظری، نظری کارشناسی بهداشت علوم پزشکی شیراز (کوار)

9. اصول بهداشت صنعتی نیمسال اول 95-96، 2 واحد نظری، کارشناسی بهداشت علوم پزشکی شیراز (کوار)

10. قوانین ومقررات ایمنی و بهداشت در واحدهای صنفی نیمسال اول 95-96، 2 واحد نظری، کارشناسی بهداشت محیط علوم پزشکی شیراز (کوار)

پزشکی شیراز (کوار)

11. بهداشت محیط نیمسال دوم 93-94، 1 واحد نظری، کارشناسی حرفه ای بهداشت مواد غذایی مرکز تحقیقات و آموزش کشاورزی وزارت

جهاد کشاورزی

12. بهداشت محیط نیمسال اول 94-95، 1 واحد نظری، کارشناسی حرفه ای بهداشت مواد غذایی مرکز تحقیقات و آموزش کشاورزی وزارت

جهاد کشاورزی

13. بهداشت محیط نیمسال دوم 93-94، 1 واحد نظری، کارشناسی حرفه ای بهداشت مواد غذایی مرکز تحقیقات و آموزش کشاورزی وزارت

جهاد کشاورزی





14. بهداشت و ایمنی مراکز تولید و فراوری و عرصه مواد غذایی نیمسال دوم 93-94، 1 واحد نظری، کارشناسی حرفه ای بهداشت مواد غذایی

مرکز تحقیقات و آموزش کشاورزی وزارت جهاد کشاورزی

15. بهداشت و ایمنی مراکز تولید و فراوری و عرصه مواد غذایی نیمسال اول 94-95، 1 واحد نظری، نظری کارشناسی حرفه ای بهداشت

مواد غذایی مرکز تحقیقات و آموزش کشاورزی وزارت جهاد کشاورزی

16. بهداشت و ایمنی مراکز تولید و فراوری و عرصه مواد غذایی نیمسال دوم 93-94، 1 واحد نظری، کارشناسی حرفه ای بهداشت مواد غذایی

مرکز تحقیقات و آموزش کشاورزی وزارت جهاد کشاورزی

17. ایمنی و بهداشت نیمسال دوم 93-94، 2 واحد نظری، کاردانی حرفه ای بهداشت فن اوران کشاورزی صدرا

18. ایمنی و بهداشت نیمسال دوم 93-94، 2 واحد نظری، کاردانی حرفه ای بهداشت فن اوران کشاورزی صدرا شیراز

5. کاردانی

❖ برگزاری کارگاه (عنوان، محل و زمان کارگاه)

❖ سوابق اجرایی (عنوان دقیق درج شده در ابلاغ، تاریخ شروع و اتمام)

1. کارشناس آزمایشگاه، دانشگاه علوم پزشکی شیراز (دانشکده بهداشت) در 1393-1396

2. کارشناس HSE، گروه تخصصی نیرو گستر (تهران) در 1398-1399

❖ سوابق پژوهشی

1- شرکت در کارگاه های آموزشی Search مقدماتی تا پیشرفته،

2- شرکت در کارگاه های آموزشی اصول کمک های اولیه، دانشگاه علوم پزشکی شهید بهشتی

3- شرکت در کارگاه های آموزشی روش تدریس و گذراندن 2 واحد روش تدریس در دانشگاه علوم پزشکی تهران

4- شرکت در دومین کنفرانس ملی توسعه پایدار سلامت

5- شرکت در دومین و بیست کنفرانس بین المللی و ملی مهندسی بهداشت محیط در یزد

6- شرکت در هجدهمین کنفرانس ملی مهندسی بهداشت محیط در شیراز

7- ارائه سمینارهای متفاوت در دانشگاه علوم پزشکی تهران

الف. ابداعات و اختراعات

ب. طرح های پژوهشی





1. Investigating of concentration of Volatile Organic Compounds (VOCs) in women's hairdresser solons in Lahijan city, in summer 2020, Grant no. 984217191, 2019.
2. Investigating the concentration of polycyclic aromatic hydrocarbons and heavy metals bonded with PM2.5 particles in the air of Isfahan metropolis in 2018, Grant no. 9826115558, 2019.
3. Investigation of type and density of bacterial bioaerosols, airborne particulate matter (PM10, PM2.5, and PM1) and carcinogenic and non-carcinogenic risk assessment of target components on the workers in different processing units of waste paper and cardboard recycling factory in 2020, Grant no. 9919947894, 2020.
4. Modeling the energy content of solid alcohol and biodiesel produced from waste cooking oils (WCO) of catering kitchens and the feasibility of its application in domestic usage, Grant no. 98311045892, 2019.
5. Investigating the concentration of volatile organic compounds in the indoor air of futsal indoor sports halls and evaluating the carcinogenic risk potential attributed to them from the inhalation route, Grant no. 39091, 2018.
6. The occurrence of COVID-19 virus in raw and treated municipal wastewater in Tehran, Rasht and Qom, Grant no. 47146, 2020.
7. Investigation of type and density of bioaerosols (fungi and bacterial) and particle matters (PM10) in indoor air of veterinary clinics in Shiraz, Grant no. 95014213703, 2016.
8. Study the concentration of BTEX (benzene, toluene, ethylbenzene and xylene) at Karandish Terminal in Shiraz, Grant no. 9401429299, 2015.
9. Determination of concentration, characteristics, and chemical composition of heavy metals and particulate matters with aerodynamic diameter less than 10 micrometer (PM10) in the ambient air of city center of Shiraz in 2015, Grant no. 94010411165, 2015.
10. Effective removal of Cr (VI) and Ni (II) ions from leather industry by amino-functionalized magnetic nanoparticles, Grant no. 22271, 2013.
11. Effective removal of fluoride ions from aqueous solution by amino-functionalized magnetic nanoparticles, Grant no. 28628, 2014.
12. Investigation of the Volatile Aldehydes concentration in indoor air of waterpipe cafes in Ardabil, Grant no. 1001851, 2018.
13. Investigation of the exposure of smokers in indoor waterpipe cafes to bacterial and fungal bioaerosols, Grant no. 1001850, 2018.
14. Investigating the removal of lead by montmorillonite k nanoparticles from aqueous solutions, Grant no. 951217300, 2016.
15. Investigation of arsenic removal by chitosan-tripolyphosphate (CS-TPP) nanoparticles from aqueous solutions, Grant no. 940805188, 2015 .
16. Evaluation of microbial fuel cell function with modified electrodes as bioelectrochemical treatment system of Landfill leachate with simultaneous production of bioenergy, Grant no. 2111401, 2023.

ج. راهنمایی پایان نامه ها و رساله ها

د. مشاوره پایان نامه ها و رساله ها

ه. مقالات

○ فارسی

1.

○ انگلیسی





1. Dehghani M, Fazlzadeh M, Sorooshian A, Tabatabaee HR, Miri M, Baghani AN, Delikhoon M, Mahvi AH, Rashidi M. Characteristics and health effects of BTEX in a hot spot for urban pollution. *Ecotoxicology and environmental safety*. 2018 Jul 15; 155:133-43.
2. Baghani AN, Sadjadi S, Yaghmaeian K, Mahvi AH, Yunesian M, Nabizadeh R. Solid alcohol biofuel based on waste cooking oil: Preparation, properties, micromorphology, heating value optimization and its application as candle wax. *Renewable Energy*. 2022 Jun 1;192:617-30.
3. Baghani AN, Sadjadi S, Yaghmaeian K, Mahvi AH, Yunesian M, Nabizadeh R. Biodiesel production from supernatant waste cooking oil by a simple one-step technique: calorific value optimization using response surface methodology (RSM) based on D-optimal design. *Journal of Material Cycles and Waste Management*. 2023 Aug 1;150:251-80. DOI:10.1007/s10163-023-01779-5.
4. Moazzen M, Khaneghah AM, Shariatifar N, Ahmadloo M, Eş I, Baghani AN, Yousefinejad S, Alimohammadi M, Azari A, Dobaradaran S, Rastkari N. Multi-walled carbon nanotubes modified with iron oxide and silver nanoparticles (MWCNT-Fe₃O₄/Ag) as a novel adsorbent for determining PAEs in carbonated soft drinks using magnetic SPE-GC/MS method. *Arabian Journal of Chemistry*. 2019 May 1;12(4):476-88.
5. Baghani AN, Rostami R, Arfaeinia H, Hazrati S, Fazlzadeh M, Delikhoon M. BTEX in indoor air of beauty salons: risk assessment, levels and factors influencing their concentrations. *Ecotoxicology and environmental safety*. 2018 Sep 15; 159:102-8.
6. Delikhoon M, Fazlzadeh M, Sorooshian A, Baghani AN, Golaki M, Ashournejad Q, Barkhordari A. Characteristics and health effects of formaldehyde and acetaldehyde in an urban area in Iran. *Environmental pollution*. 2018 Nov 1; 242:938-51.
7. Delikhoon M, Guzman MI, Nabizadeh R, Baghani AN. Modes of transmission of severe acute respiratory syndrome-coronavirus-2 (SARS-CoV-2) and factors influencing on the airborne transmission: A review. *International journal of environmental research and public health*. 2021 Jan;18(2):395.
8. Baghani AN, Mahvi AH, Gholami M, Rastkari N, Delikhoon M. One-Pot synthesis, characterization and adsorption studies of amine-functionalized magnetite nanoparticles for removal of Cr (VI) and Ni (II) ions from aqueous solution: Kinetic, isotherm and thermodynamic studies. *Journal of environmental health science and engineering*. 2016 Dec; 14:1-2.
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10. Baghani AN, Sorooshian A, Heydari M, Sheikhi R, Golbaz S, Ashournejad Q, Kermani M, Golkhorshidi F, Barkhordari A, Jafari AJ, Delikhoon M. A case study of BTEX characteristics and health effects by major point sources of pollution during winter in Iran. *Environmental pollution*. 2019 Apr 1; 247:607-17.
11. Moazzen M, Mahvi AH, Shariatifar N, Jahed Khaniki G, Nazmara S, Alimohammadi M, Ahmadkhaniha R, Rastkari N, Ahmadloo M, Akbarzadeh A, Dobaradaran S., Baghani AN. Determination of phthalate acid esters (PAEs) in carbonated soft drinks with MSPE/GC-MS method. *Toxin Reviews*. 2018 Oct 2;37(4):319-26.
12. Chegini FM, Baghani AN, Hassanvand MS, Sorooshian A, Golbaz S, Bakhtiari R, Ashouri A, Joubani MN, Alimohammadi M. Indoor and outdoor airborne bacterial and fungal air quality in kindergartens: Seasonal distribution, genera, levels, and factors influencing their concentration. *Building and environment*. 2020 May 15; 175:106690.
13. Dehghani M, Sorooshian A, Nazmara S, Baghani AN, Delikhoon M. Concentration and type of bioaerosols before and after conventional disinfection and sterilization procedures inside hospital operating rooms. *Ecotoxicology and environmental safety*. 2018 Nov 30; 164:277-82.
14. Neghab M, Delikhoon M, Baghani AN, Hassanzadeh J. Exposure to cooking fumes and acute reversible decrement in lung functional capacity. *The international journal of occupational and environmental medicine*. 2017 Oct;8(4):207.
15. Dehghani MH, Baghani AN, Fazlzadeh M, Ghaffari HR. Exposure and risk assessment of BTEX in indoor air of gyms in Tehran, Iran. *Microchemical journal*. 2019 Nov 1; 150:104135.
16. Khosravi R, Eslami H, Zarei A, Heidari M, Baghani AN, Safavi N, Mokammel A, Fazlzadeh M, Adhami S. Comparative evaluation of nitrate adsorption from aqueous solutions using green and red local montmorillonite adsorbents. *Desalination and water treatment*. 2018; 116:119-28.





17. Golkhorshidi F, Sorooshian A, Jafari AJ, Baghani AN, Kermani M, Kalantary RR, Ashournejad Q, Delikhoon M. On the nature and health impacts of BTEX in a populated middle eastern city: Tehran, Iran. *Atmospheric pollution research*. 2019 May 1;10(3):921-30.
18. Nasser S, Yavarian J, Baghani AN, Azad TM, Nejati A, Nabizadeh R, Hadi M, Jandaghi NZ, Vakili B, Vaghefi SK, Baghban M. The presence of SARS-CoV-2 in raw and treated wastewater in 3 cities of Iran: Tehran, Qom and Anzali during coronavirus disease 2019 (COVID-19) outbreak. *Journal of Environmental Health Science and Engineering*. 2021 Jun; 19:573-84.
19. Dehghani M, Sorooshian A, Ghorbani M, Fazlzadeh M, Miri M, Badiie P, Parvizi A, Ansari M, Baghani AN, Delikhoon M. Seasonal variation in culturable bioaerosols in a wastewater treatment plant. *Aerosol and air quality research*. 2018 Nov;18(11):2826.
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21. Naddafi K, Nabizadeh R, Baghani AN, Fazlzadeh M. Bioaerosols in the waterpipe cafés: genera, levels, and factors influencing their concentrations. *Environmental Science and Pollution Research*. 2019 Jul 1; 26:20297-307.
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23. Nazmara S, Sorooshian A, Delikhoon M, Baghani AN, Ashournejad Q, Barkhordari A, Basmehchi N, Kasraee M. Characteristics and health risk assessment of polycyclic aromatic hydrocarbons associated with dust in household evaporative coolers. *Environmental pollution*. 2020 Jan 1; 256:113379.
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25. Parvizimehr A, Baghani AN, Hoseini M, Sorooshian A, Cuevas-Robles A, Fararouei M, Dehghani M, Delikhoon M, Barkhordari A, Shahsavani S, Badeenezhad A. On the nature of heavy metals in PM10 for an urban desert city in the Middle East: Shiraz, Iran. *Microchemical Journal*. 2020 May 1; 154:104596.
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27. Baghani AN, Mahvi AH, Rastkari N, Delikhoon M, Hosseini SS, Sheikhi R. Synthesis and characterization of amino-functionalized magnetic nanocomposite (Fe₃O₄-NH₂) for fluoride removal from aqueous solution. *Desalination and water treatment*. 2017; 65:367-74.
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29. Rostami I, Mahvib AH, Dehghanib MH, Baghania AN, Marandid R. Application of nano aluminum oxide and multi-walled carbon nanotube in fluoride removal. *Desalination and water treatment*. 2017 Apr 1; 72:368-73.
30. Farzadkia M, Mahvi AH, Baghania AN, Sorooshian A, Delikhoon M, Sheikhi R, Ashournejad Q. Municipal solid waste recycling: Impacts on energy savings and air pollution. *Journal of the Air & Waste Management Association*. 2021 Jun 3;71(6):737-53.
31. Baghania AN, Farzadkia M, Azari A, Zazouli MA, Vaziri Y, Delikhoon M, Shafi AA. Economic aspects of dry solid waste recycling in Shiraz, Iran. *Journal of Mazandaran University of medical sciences*. 2016 Feb 10;25(133):330-4.
32. Baghania AN, Bahmani Z, Sorooshian A, Farzadkia M, Nabizadeh R, Delikhoon M, Barkhordari A, Rezaei Kalantary R, Golbaz S, Kermani M, Ashournejad Q. Characterization of polycyclic aromatic hydrocarbons associated with PM10 emitted from the largest composting facility in the Middle East. *Toxin reviews*. 2021 Oct 2;40(4):1481-95.
33. Baghania A, Sorooshian A, Delikhoon M, Nabizadeh R, Nazmara S, Bakhtiari R. Pollution characteristics and noncarcinogenic risk assessment of fungal bioaerosol in different processing units of waste paper and cardboard recycling factory. *Toxin Reviews*. 2021 Oct 2;40(4):752-63.





34. Nabizadeh R, Sorooshian A, Delikhoon M, Baghani AN, Golbaz S, Aghaei M. Dataset on specifications, carcinogenic and non-carcinogenic risk of volatile organic compounds during recycling paper and cardboard. *Data in brief*. 2020 Apr 1; 29:105296.
35. Fazlzadeh M, Rostami R, Baghania A, Hazrati S, Mokammel A. Hydrogen sulfide concentrations in indoor air of thermal springs. *Human and Ecological Risk Assessment: An International Journal*. 2018 Aug 18;24(6):1441-52.
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علاقه پژوهشی



1. Bio-energy (bio-methane, bio-hydrogen, bio-diesel, bio-ethanol) production from waste streams
2. Waste to energy
3. Economic analysis of solid waste
4. Atmospheric Sciences
5. Environmental engineering
6. Modeling and data analysis
7. Risk Assessment (microbial, bioaerosols, chemical)
8. Ambient and indoor air pollution
9. Solid waste
10. Renewable energy
11. Biofuel
12. Wastewater treatment
13. Environmental pollution
14. Solid waste management
15. Health risk assessment
16. Bioaerosols
17. Water quality
18. Microbiology
19. Industrial air pollution
20. Chemistry



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عضویت در شورای نویسندگان و داوری مقالات

1. Environmental Pollution, 2-year Impact Factor 2021: 9.988, 9 reviews between December 2018 and September 2022.
2. Journal of Hazardous Materials, 2-year Impact Factor 2021: 14.224, 2 reviews from April 2023 to now.
3. Journal of Environmental Management, 2-year Impact Factor 2021: 8.91, 2 reviews between March 2021 and July 2021.
4. Journal of Water Process Engineering, 2-year Impact Factor 2021: 7.34, 1 review in March 2023.
5. Science of The Total Environment, 2-year Impact Factor 2021: 10.754, 8 reviews between July 2022 and April 2023.
6. Sustainable Cities and Society, 2-year Impact Factor 2021: 10.696, 4 reviews from January 2020 to now.
7. Science of The Total Environment, 2-year Impact Factor 2021: 10.754, 8 reviews between July 2022 and April 2023.
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9. SAGE Open Medicine, 2-year Impact Factor 2021: 2.032, 2 reviews from November 2022 to now.
10. Atmosphere, 2-year Impact Factor 2021: 3.11, 2 reviews from November 2022 to now.
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13. Aerobiologia, 2-year Impact Factor 2021: 2.376, 3 reviews from May 2021 to now.
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عضویت در مجامع

عضو بسیج فعال اساتید دانشگاه علمی کاربردی کوار

عضویت در انجمن مهندسی بهداشت محیط

عضویت در انجمن بین المللی احتراق

مهارت های عمومی / علایق عمومی





- مهارت کار انجام با اکثر دستگاه های آزمایشگاهی پسماند، شیمی، هوا و میکروب
- تدریس دروس مربوط به آزمایشگاهی هوا، پسماند، هوا و میکروب
- کشت دادن و شمارش و شناسایی کلنی ها باکتری و قارچی
- مهارت کاملا به روش های نمونه براری محیطی و داخلی
- تسلط به مهارت های هفت گانه ICDL 2010
- مهارت به انجام آنالیزهای آماری توسط SPSS
- مهارت به انجام آنالیزهای آماری توسط GraphPad Prism 7
- مهارت به طراحی های آزمایشی توسط نرم افزار Design-Expert
- مهارت به انجام آنالیزهای آماری توسط R Statistical Software version 3.0.
- محاسبات ارزیابی های سرطانی و غیر سرطانی آلایندهه ای محیطی (پسماند، شیمی، هوا و میکروب) توسط نرم افزار Monte Carlo method
- مهارت به طراحی های آزمایشی توسط نرم افزار موده ورژن 12.01
- انجام مطالعات مروری سیستماتیک و متاآنالیز
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