دکتر سمیه اللهیاری

دانشیار

دانشکده: مهندسی شیمی

سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۸۴	مهندسی شیمی	دانشگاه صنعتی شریف
کارشناسی ارشد	۱۳۸۶	مهندسی شیمی	دانشگاه صنعتی سهند
دکترای تخصصی	۱۳۹۳	مهندسی شیمی	دانشگاه صنعتی سهند

اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشگاه صنعتی سهند		رسمی قطعی	تمام وقت	

سوابق اجرایی

مدیر گروه ترموسینتیک و کاتالیست

عضو شورای تحصیلات تکمیلی دانشکده

استاد راهنمای دانشجویان کارشناسی

استاد مشاور انجمن علمی محیط زیست

استاد مشاور انجمن علمی نانو

جوایز و تقدیر نامه ها

فناور برتر استان در سال 1402 (شرکت واکنش یار صنعت از شرکتهای فناور دانشگاه صنعتی سهند)

دانشجوی برتر دوره کارشناسی ارشد

دانشجوی استعداد درخشان در دوره های ارشد و دکترا

موضوعات تدریس تخصصی

ترمودینامیک

ترمودینامیک پیشرفته (کارشناسی ارشد)

پدیده های سطحی (کارشناسی ارشد)

فرایندهای پالایش

محاسبات مهندسی پالایش

شیمی آلی

زمینه های تدریس

مهندسی شیمی، ترمودینامیک، فرایندهای پالایش و علم سطح

عضویت در انجمن های علمی

انجمن مهندسی شیمی ایران

مقالات در نشریات

1. Farnaz Asadi , Somaiyeh Allahyari , Nader Rahemi , Murid Hussain,One-pot oxidative-adsorptive desulfurization of model fuel and fuel oil using magnetic boron nitride-based catalysts under ultrasonic irradiations,Journal of Industrial and Engineering Chemistry,12.10.2023.
2. Nesa Rahmanzadeh , Somaiyeh Allahyari , Milad Hermani , Habib Etemadi,C3N4-BiOBr/PVC photocatalytic submerged membrane for oil-in-water emulsion separation with visible light-driven self-cleaning performance,Journal of Environmental Chemical Engineering,2.1.2024.
۳. Mahsa Eshghi و Somaiyeh Allahyari،Construction of a magnetic BiOBr-rGO-ZnFe۲O۴ heterojunction photocatalyst for refinery wastewater treatment under simulated solar light،Solar Energy،۱۱.۱.۲۰۲۳.
4. Fahime Abedini , Somaiyeh Allahyari , Nader Rahemi,Oxidative desulfurization of dibenzothiophene and simultaneous adsorption of products on BiOBr-C3N4/MCM-41 visible-light-driven core–shell nano photocatalyst,Applied Surface Science,12.15.2021.
5. Asma Ranjbar Kooh Farhadi , Nader Rahemi , Somaiyeh Allahyari , Minoo Tasbihi,Metal-doped perovskite BiFeO3/rGO nanocomposites towards the degradation of acetaminophen in aqueous phase using plasmaphotocatalytic hybrid technology,Journal of the Taiwan Institute of Chemical Engineers,3.1.2021.
۶. Fahime Abedini , Somaiyeh Allahyari , Nader Rahemi،One-step oxidative-adsorptive desulfurization of DBT on simulated solar light-driven nano photocatalyst of MoS۲-C۳N۴-BiOBr @MCM-۴۱،Advanced Powder Technology،۶.۱.۲۰۲۲.
۷. Leila Feyzi , Nader Rahemi , Somaiyeh Allahyari،Tetracycline degradation using combined

system of dielectric barrier discharge air plasma and zeolites synthesized at different Na۲O/SiO۲ ratios،Journal of Industrial and Engineering Chemistry،۱۲.۲۵.۲۰۲۱.
8. Leila Feyzi , Nader Rahemi , Somaiyeh Allahyari,Efficient degradation of tetracycline in aqueous solution using a coupled S-scheme ZnO/g-C3N4/zeolite P supported catalyst with water falling film plasma reactor,Process Safety and Environmental Protection,5.1.2022.
9. Shayan Hoseini , Nader Rahemi , Somaiyeh Allahyari , Minoo Tasbihi,Application of plasma technology in the removal of volatile organic compounds (BTX) using manganese oxide nano-catalysts synthesized from spent batteries,Journal of Cleaner Production,9.20.2019.
10. Marziyeh Saflou , Somaiyeh Allahyari , Nader Rahemi , Minoo Tasbihi,Oil spill degradation using floating magnetic simulated solar light-driven nano photocatalysts of Fe3O4-ZnO supported on lightweight minerals,Journal of Environmental Chemical Engineering,8.1.2020.
11. Alireza Maddahzadeh Zoghi ,& Somaiyeh Allahyari,Multifunctional magnetic C3N4-rGO adsorbent with high hydrophobicity and simulated solar light-driven photocatalytic activity for oil spill removal,Solar Energy,5.1.2022.
12. Synthesis of La0.8Zn0.2MnO3 nanocatalysts for decomposition of VOCs in a DBD plasma reactor; Influence of sol-gel parameters,Journal of the Taiwan Institute of Chemical Engineers,5.1.2021.
13. Natural Minerals as Support of Silicotungstic Acid for Photocatalytic Degradation of Methylene Blue in Wastewater,Journal of Inorganic and Organometallic Polymers and Materials,11.10.2018.
14. Photocatalytic oxidative-extractive desulfurization of dibenzothiophene under simulated solar light with MoS2-CeO2/Al2O3-SiO2 nano photocatalyst: effect of CeO2 content,Journal of Sulfur Chemistry,1.3.2024.
۱۵. Fatemeh Jangi , Nader Rahemi , Somaiyeh Allahyari،Oxidative desulfurization using nanocomposites of heterogeneous phosphotungstic acid over natural zeolites; optimization by central-composite design،Petroleum Science and Technology،۴.۲۳.۲۰۲۲.
۱۶. Modified natural zeolites and clays as support of Ni–Mn catalyst for toluene oxidation in a one-stage plasma-catalysis system،International Journal of Environmental Science and Technology،۵.۲۴.۲۰۲۲.
17. Kosar Sheikhlou et al.,Walnut leaf extract-based green synthesis of selenium nanoparticles via microwave irradiation and their characteristics assessment,Open Agriculture,6.9.2020.
18. Somaiyeh Allahyari , Mohammad Haghighi, , Amanollah Ebadi, , Shahin Hosseinzadeh,Effect of irradiation power and time on ultrasound assisted co-precipitation of nanostructured CuO–ZnO–Al2O3 over HZSM-5 used for direct conversion of syngas to DME as a green fuel,Energy Conversion and Management,8.1.2014.
19. CO2 reforming of methane over Ni-Cu/Al2O3-ZrO2 nanocatalyst : The influence of plasma treatment and process conditions on catalytic properties and performance,Korean Journal of Chemical Engineering,7.19.2014.
20. Amirmasoud Goudarz , Nader Rahemi , Somaiyeh Allahyari,Plasma treatment of nano BiOBr-BiOI heterojunction for efficient photocatalytic performance under visible light,Journal of Photochemistry & Photobiology, A: Chemistry,6.1.2024.
21. Hamid Kazemi Hakki ,& Somaiyeh Allahyari,Sonophotocatalytic treatment of wastewater using simulated solar light-driven Bi2O3-ZnO nanophotocatalyst sensitized with copper phthalocyanine,Materials Chemistry and Physics,6.1.2022.
22. Leila Yosefi , Mohammad Haghighi , Somaiyeh Allahyari , ,Solvothermal synthesis of flowerlike p-BiOI/n-ZnFe2O4 with enhanced visible light driven nanophotocatalyst used in removal of acid orange 7 from wastewater,Separation and Purification Technology,5.7.2017.
23. Syngas production from reforming of greenhouse gases CH4/CO2 over Ni–Cu/Al2O3 nanocatalyst: Impregnated vs. plasma-treated catalyst,Energy Conversion and Management,5.4.2014.

24. Hamid Kazemi Hakki ,& Somaiyeh Allahyari,Intensification of photocatalytic wastewater treatment using a novel continuous microcapillary photoreactor irradiated by visible LED lights,Chemical Engineering and Processing - Process Intensification,5.1.2022.
25. Hamid Kazemi Hakki , Somaiyeh Allahyari , Nader Rahemi , Minoo Tasbihi,Surface properties, adherence, and photocatalytic activity of solegel dip-coated TiO2eZnO films on glass plates,Comptes Rendus Chimie,5.1.2019.
26. Leila Yosefi , Mohammad Haghighi , Somaiyeh Allahyari , Saeid Ashkriz,Effect of ultrasound irradiation and Ni-loading onproperties and performance of CeO2-dopedNi/clinoptilolite nanocatalyst used in pollutedair treatment,Process Safety and Environmental Protection,5.1.2015.
27. Leila Yosefi , Mohammad Haghighi , Somaiyeh Allahyari , Saeid Ashkriz,The beneficial use of HCl-activated natural zeolite in ultrasound assisted synthesis of Cu/clinoptilolite–CeO2 nanocatalyst used for catalytic oxidation of diluted toluene in air at low temperature,Journal of Chemical Technology and Biotechnology,4.3.2014.
28. Nooshin Parvizi , Nader Rahemi , Somaiyeh Allahyari , Minoo Tasbihi,Plasma-catalytic degradation of BTX over ternary perovskite-type La1-x(Co, Zn, Mg, Ba)xMnO3 nanocatalysts,Journal of Industrial and Engineering Chemistry,4.25.2020.
29. Amin Mohammad Gholipour , Nader Rahemi , Somaiyeh Allahyari , Eslam Ghareshabani,Hybrid Plasma-Catalytic Oxidation of VOCs with NiMn/ Montmorillonite: Plasma and Catalyst Considerations,Topics in Catalysis,4.10.2017.
30. Nader Rahemi et al.,Plasma-Assisted Dispersion of Bimetallic Ni–Co over Al2O3– ZrO2 for CO2 Reforming of Methane: Influence of Voltage on Catalytic Properties,Topics in Catalysis,4.10.2017.
31. Maryam Moradi , Mohammad Haghighi , Somaiyeh Allahyari,Precipitation dispersion of Ag–ZnO nanocatalystover functionalized multiwall carbon nanotubeused in degradation of Acid Orange fromwastewater,Process Safety and Environmental Protection,4.1.2017.
32. Simin Matloubi Aghdam , Mohammad Haghighi , Somaiyeh Allahyari , Leila Yosefi,,Precipitation dispersion of various ratios of BiOI/BiOCl nanocomposite over g-C3N4 for promoted visible light nanophotocatalyst used in removal of acid orange 7 from water,Journal of Photochemistry and Photobiology A: Chemistry,4.1.2017.
33. How Advancing are Mesoporous Silica Nanoparticles? A Comprehensive Review of the Literature,International Journal of Nanomedicine,3.22.20222.
34. Ahmad Najafidoust , Somaiyeh Allahyari , Nader Rahemi , Minoo Tasbihi,Uniform coating of TiO2 nanoparticles using biotemplates for photocatalytic wastewater treatment,Ceramics International,3.1.2020.
35. Abatement of toluene from polluted air over Mn/Clinoptilolite–CeO2 nanopowder: Impregnation vs. ultrasound assisted synthesis with various Mn-loading,Advanced Powder Technology,3.1.2015.
36. Somaiyeh Allahyari , Mohammad Haghighi, Amanollah Ebadi , Shahin Hosseinzadeh,Ultrasound assisted co-precipitation of nanostructured CuO–ZnO–Al2O3 over HZSM-5: Effect of precursor and irradiation power on nanocatalyst properties and catalytic performance for direct syngas to DME,Ultrasonics Sonochemistry,3.1.2014.
37. Somaiyeh Allahyari , Mohammad Haghighi, , Amanollah Ebadi,Direct synthesis of DME over nanostructured CuO–ZnO–Al2O3/HZSM-5 catalyst washcoated on high pressure microreactor: Effect of catalyst loading and process condition on reactor performance,Chemical Engineering Journal,2.15.2015.
38. Somaiyeh Allahyari , Mohammad Haghighi , Amanollah Ebadi , Habib Qavam Saeedi,Direct synthesis of dimethyl ether as a green fuel from syngas over nanostructured CuO–ZnO–Al2O3/HZSM-5 catalyst: Influence of irradiation time on nanocatalyst properties and catalytic performance,Journal of Power Sources,12.25.2014.

.39 Somaiyeh Allahyari , Mohammad Haghighi , Amanollah Ebadi,Direct conversion of syngas to DME as a green fuel in a high pressure microreactor: Influence of slurry solid content on characteristics and reactivity of washcoated CuO–ZnO–Al2O3/HZSM-5 nanocatalyst,Chemical .Engineering and Processing: Process Intensification,12.1.2014
.40 Sakineh Mohammadzadeh Yengejeh , Somaiyeh Allahyari , Nader Rahemia,Efficient , oxidative desulfurization of model fuel byvisible-light-driven MoS2-CeO2/SiO2-Al2O3nano .photocatalystcoating,Process Safety and Environmental Protection,11.1.2020
.41 Mohsen Parvas , Mohammad Haghighi , Somaiyeh Allahyari,Catalytic wet air oxidation of phenol over ultrasound-assisted synthesized Ni/CeO2–ZrO2 nanocatalyst used in wastewater .treatment,Arabian Journal of Chemistry,11.1.2019
.42 Nushin Ettekali , Somaiyeh Allahyari , Nader Rahemi , Fahime Abedini,One-pot oxidative- adsorptive desulfurization of model and real fuel using micro-mesoporous SiO2 aerogel .supported MoO3,Microporous and Mesoporous Materials,10.1.2021
.43 Effect of hydrometallurgical process parameters on the Mn2O3 nano catalysts derived from spent batteries used in the plasma catalytic oxidation of BTX,Advanced Powder .Technology,10.1.2020
.44 Hamid Kazemi Hakki , Somaiyeh Allahyari , Nader Rahemi , Minoo Tasbihi,The role of thermal annealing in controlling morphology, crystal structure and adherence of dip coated TiO2 film on .glass and its photocatalytic activity,Materials Science in Semiconductor Processing,10.1.2018
.45 ZnO–C3N4 solar light -driven nanophotocatalysts on floating recycled PET bottle as support .for degradation of oil spill,Ceramics International,1.17.2020
.46 Elnaz Safari , Nader Rahemi , Davood Kahforoushan , Somaiyeh Allahyari,Copper adsorptive removal from aqueous solution by orange peel residue carbon nanoparticles synthesized by combustion method using response surface methodology,Journal of Environmental Chemical .Engineering,1.1.2019
.47 Mina Azami , Mohammad Haghighi , Somaiyeh Allahyari,Sono-precipitation of Ag2CrO4-C composite enhanced by carbon-based materials (AC, GO, CNT and C3N4) and its activity in .photocatalytic degradation of acid orange 7 in water,Ultrasonics - Sonochemistry,1.1.2018