



Haydar Aljaafari

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Associate Professor

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EDUCATION

دكتوراه (13-05-2022)

Transport phenomenon - Biochemical Engineering

University of Iowa

RESEARCH METRICS

h-index (Scopus) 8

h-index (GS) 9

Citations (Scopus) 718

Citations (GS) 1060

Documents (Scopus) 27

Documents (GS) 36

RESEARCH INTERESTS

• Biofilm- transport phenomena- membrane technology - water treatment - and biochemical engineering



ACADEMIC TITLES

2022-08-02 Lecturer

2025-09-02 Associate Professor

ADMINISTRATIVE POSITIONS

2024-01-01 - Present Director of the Scientific Division - Scientific Affairs Department

2023-09-01 - Present Director of the Scholarship Capabilities Investment Unit

INTERNATIONAL MEMBERSHIPS

• American Institute of Chemical Engineer

PUBLICATIONS (4 5)

- Insights of quantitative imaging and instantaneous heat transfer coefficient measurement in spouted bed column**
International Journal of Heat and Fluid Flow 117, 110152, 2026 | 2026
- Green-synthesized silver nanoparticles from Tulsi leaf extract: synergistic antimicrobial activity against bacterial and fungal pathogens**
Journal of Umm Al-Qura University for Applied Sciences, 1-11, 2026 | 2026 | Cited: 1
- Dispersion Inhibits Thermal Mitigation of Pseudomonas aeruginosa Biofilms on Self-Heating Surfaces**
MicrobiologyOpen 15 (2), e70283, 2026 | 2026 | Cited: 1
- Expired Actifed Drug as Corrosion Inhibitor for Low-Carbon Steel in Phosphoric Acid: Experimental and Theoretical Investigation**
Iranian Journal of Chemistry and Chemical Engineering 44 (4), 1063-1073, 2025 | 2025 | Cited: 1
- Expired Actifed Drug as Corrosion Inhibitor for Low-carbon Steel in Phosphoric Acid: Experimental and Theoretical Investigation**
Iranian Journal of Chemistry and Chemical Engineering (Articles in Press), 2025 | 2025 | Cited: 2
- The influence of initial temperature on the interactions of water/silver nanofluid with SARS virus using molecular dynamics simulation**
Powder Technology, 121429, 2025 | 2025 | Cited: 2
- Experimental Investigation of Heat Transfer Behavior in Spouted Bed Reactors under Different Operating Conditions**
Petroleum Chemistry 65 (5), 576-588, 2025 | 2025 | Cited: 1
- Expired Actifed Drug as Corrosion Inhibitor for Low-Carbon Steel in Phosphoric Acid: Experimental and Theoretical Investigation**
Iranian Journal of Chemistry and Chemical Engineering, 2025 | 2025 | Cited: 1
- Green synthesis of parsley-derived silver nanoparticles and their enhanced antimicrobial and antioxidant effects against foodborne resistant bacteria**
Green Processing and Synthesis 14 (1), 20250094, 2025 | 2025 | Cited: 3

29. **Synthesis of ZnO-CoO/Al₂O₃ nanoparticles and its application as a catalyst in ethanol conversion to acetone**
Results in Chemistry 3, 100249, 2021 | 2021 | Cited: 31
30. **Thermal Shock and Ciprofloxacin Act Orthogonally on Pseudomonas aeruginosa Biofilms**
Antibiotics 10 (8), 1017, 2021 | 2021 | Cited: 15
31. **Biofilm Reduction Via Surface Vs. Immersion Heating**
2021 AIChE Annual Meeting, 2021 | 2021
32. **Thermal Shock and Ciprofloxacin Act Orthogonally on Pseudomonas aeruginosa Biofilms. Antibiotics 2021, 10, 1017**
New Insights on Biofilm Antimicrobial Strategies, 2nd Volume, 75, 2021 | 2021
33. **Synthesis of ZnO-CoO/Al₂O₃ nanoparticles and its application as a catalyst in ethanol conversion to acetone**
Results in Chemistry 3, 100249, 2021 | 2021 | Cited: 26
34. **Synthesis of ZnO-CoO**
Al₂O₃, 2021 | 2021 | Cited: 3
35. **Thermally Triggered Biofilm Dispersion**
2020 Virtual AIChE Annual Meeting, 2020 | 2020
36. **Thermal Shock Dynamics on Biofilm Viability at Biomedical Interfaces**
2019 AIChE Annual Meeting, 2019 | 2019
37. **Promising evolution of biofuel generations. Subject review**
Renewable Energy Focus 28, 127-139, 2019 | 2019 | Cited: 708
38. **Thermal shock susceptibility and regrowth of Pseudomonas aeruginosa biofilms**
International journal of hyperthermia 34 (2), 168-176, 2018 | 2018 | Cited: 28
39. **Dynamics of Biofilm Elimination on Thermally Shocked Biomedical Surfaces**
2018 AIChE Annual Meeting, 2018 | 2018
40. **Thermal shock susceptibility and regrowth of Pseudomonas aeruginosa biofilms**
International Journal of Hyperthermia 34 (2), 168-176, 2018 | 2018 | Cited: 43
41. **Reincubation of Heat Shocked Pseudomonas aeruginosa Biofilm**
2017 AIChE Annual Meeting, 2017 | 2017
42. **Experimental Investigation and Optimization of Air Sparging on Hollow Fiber Membrane Performance**
American Journal of Modern Chemical Engineering 1 (1), 40-54, 2015 | 2015
43. **Poly (ether sulfone)(PES) hollow-fiber membranes prepared from various spinning parameters**
Desalination 345, 21-35, 2014 | 2014 | Cited: 78
44. **Effect of the preparation conditions on the morphology and performance of poly (imide) hollow fiber membranes**
Journal of Applied Polymer Science 131 (12), 2014 | 2014 | Cited: 7
45. **Effect of the preparation conditions on the morphology and performance of poly (imide) hollow fiber membranes**
Journal of Applied Polymer science 131 (12), 2014 | 2014 | Cited: 6