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Summary

Dr. Shahryar Jafarinejad is an assistant professor of chemical engineering at Tuskegee University, USA. Before joining the faculty at TU, he has worked as an assistant professor at the college of environment, UOE, and as an assistant researcher at the water and energy nexus center and department of civil and environmental engineering, the Henry Samueli school of engineering, University of California Irvine. He received his B.Sc. in chemical engineering, M.Sc. in chemical engineering-process design, Ph.D. in chemical engineering from the school of chemical engineering, college of engineering, University of Tehran, and Post.Doc from the department of civil and environmental engineering, University of California Irvine. He has taught chemical engineering courses at the chemical engineering department, TU; school of chemical engineering, college of engineering, UT; college of environment, UOE; and department of chemical industries, Valiasr Technical College, TVU. He has also supervised undergraduate and graduate students and has served as an industry consultant. He has published two books, one chapter book and several peer-reviewed journal and conference papers and has served as an editorial board member and reviewer of engineering journals.

His research interests include nanotechnology (nano-materials and nanocomposites), environanotechnology, simulation and mathematical modeling, advanced process design, separation processes, and transport phenomena, advanced water and wastewater treatment, advanced oxidation processes (AOPs), thermodynamics, surface modification of membranes, and environmental issues in the petroleum industry.

Selected Publications

Books

Shahryar Jafarinejad, Petroleum Waste Treatment and Pollution Control, 1st Edition, Elsevier, Butterworth-Heinemann, 2017, Print ISBN: 9780128092439, Electronic ISBN: 9780128094983.

Shahryar Jafarinejad, The Basic Elements in Nanotechnology and Polymeric Nanocomposites, In Persian, Simaye Danesh Publications, 2009, ISBN: 9786001200021

Chapter Book

Shahryar Jafarinejad, Cost-Effective Catalytic Materials for AOP Treatment Units, A. Gil et al. (ed.), Applications of Advanced Oxidation Processes (AOPs) in Drinking Water Treatment, DOI 10.1007/698_2017_77, The Handbook of Environmental Chemistry, Springer International Publishing AG 2017.

Peer Reviewed Journal and Conference Articles

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