

Curriculum Vitae



Name: Hossein Esmaeili, BSc, MSc, PhD

DATE OF BIRTH: 13/06/1982

ADDRESS: Department of Chemical Engineering, Bushehr Branch, Islamic Azad University, Bushehr, Iran

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EMAIL: esmaeili.hossein@gmail.com & H.esmaeili@iaubushehr.ac.ir

Nationality: Iranian

Current Position: Assistant Professor at Islamic Azad University of Bushehr, Iran

Education:

- Ph.D. in Chemical Engineering at Shiraz University, Shiraz, Iran (September 2009- October 2014)
- M. Sc in Chemical Engineering at Isfahan University of Technology, Isfahan, Iran (September 2006- December 2008)
- B.Sc. in Chemical Engineering at Persian Gulf University of Bushehr, Bushehr, Iran (September 2001- August 2006)

Honors and Awards:

Top student in Chemical Engineering-Transport Phenomena (Ranked 1st) between 6 students at Isfahan University of technology (Master of Science).

Top researcher (Ranked 1st) at Department of Engineering, Bushehr Province, Iran, November 2020

Top researcher (Ranked 1st) at Department of Engineering, Islamic Azad University of Bushehr, Iran, November 2019

Top researcher (Ranked 1st) at Department of Engineering, Islamic Azad University of Bushehr, Iran, November 2017

Top researcher (Ranked 1st) at Department of Engineering, Islamic Azad University of Bushehr, Iran, November 2016

Top researcher (Ranked 1st) at Department of Engineering, Islamic Azad University of Bushehr, Iran, November 2015

Top researcher (Ranked 2nd) at Department of Engineering, Islamic Azad University of Bushehr, Iran, November 2014

Research Interests

❖ Waste Water Treatment, Demulsification process, Adsorption and Biosorption Process, Renewable Energies (i.e. Biodiesel and Ethanol), Nano Catalyst, Magnetic catalyst, Surfactant and demulsifier, Material synthesis and analysis (e.g. SEM, FTIR, XRD, BET, DLS, EDX/Mapping, TEM, HNMR, TPD, XPS, VSM, GC, HPLC, and Zeta-potential)

Book Chapter:

- 1- **Hossein Esmaeili**, Ehsan Nourafkan, Mehdi Nakisa, Waqar Ahmad, **Application of nanotechnology for biofuel production**, Elsevier. Book Chapter, " Emerging Nanotechnologies for Renewable Energy" ISBN: 9780128213469.
- 2- Ehsan Nourafkan, **Hossein Esmaeili**, Waqar Ahmad, **Nanotechnology for energy storage**, Elsevier. Book Chapter, "Emerging Nanotechnologies for Renewable Energy" ISBN: 9780128213469
- 3- **Biodiesel: Different feedstocks, conventional methods and factors affecting biodiesel production**, In process for publication in the Wiley.
- 4- **Biosurfactants and their applications on the demulsification process**, publication in the Elsevier.
- 5- **Application of biosurfactant as a demulsifying and emulsifying agent in the formulation of petrochemical products**, Book Chapter in Elsevier
- 6- **Application of nanocomposites and nanomaterials for treatment of wastewater containing pollutants**, In process for publication in the Lincoln University publisher, U.K.
- 7- Compilation a book entitled "**Introduction to Nano-technology and its application in Chemical Engineering**" Published by Sokhanvaran Publisher in Iran, Tehran, In Persian Language. ISBN: ۹۶۰۰۸۰۳۸۳-۹۶۰۰-۹۷ . Authors name: Hossein Esmaeili, Behzad Vaferi.

PUBLICATIONS (ISI):

- 1- Tamjidi, S., **Esmaeili, H.** and Moghadas, B.K., 2021. Performance of functionalized magnetic nanocatalysts and feedstocks on biodiesel production: A review study. *Journal of Cleaner Production*, 305, 127200. **Impact factor=7.24 (Q1)**
- 2- Huan Liang, **Hossein Esmaeili**, 2021. Application of nanomaterials for demulsification of oily wastewater: A review study, *Environmental Technology and Innovation*. 22, 101498. **Impact factor=3.35 (Q1)**
- 3- Bai, L., Tajikfar, A., Tamjidi, S., Foroutan, R. and **Esmaeili, H.**, 2021. Synthesis of MnFe₂O₄@ graphene oxide catalyst for biodiesel production from waste edible oil. *Renewable Energy*, 170, 426-437. **Impact factor=6.2 (Q1)**
- 4- Pooladi, H., Foroutan, R. and **Esmaeili, H.**, 2021. Synthesis of wheat bran sawdust/Fe₃O₄ composite for the removal of methylene blue and methyl violet. *Environmental Monitoring and Assessment*, 193(5), 1-17. **Impact factor=1.9 (Q2)**
- 5- Tamjidi, S., Moghadas, B.K., **Esmaeili, H.**, Khoo, F.S., Gholami, G. and Ghasemi, M., 2021. Improving the surface properties of adsorbents by surfactants and their role in the removal of toxic metals from wastewater: A review study. *Process Safety and Environmental Protection*, 148, 775-795. **Impact factor=4.966 (Q1)**
- 6- Fouladi, A., **Esmaeili, H.**, Tamjidi, S. and Foroutan, R., 2021. Removal of gas condensate from industrial wastewater using low-cost adsorbents: Optimization by Box-Behnken design method. *Environmental Progress & Sustainable Energy*, p.e13589. **Impact factor=1.99 (Q2)**
- 7- Bahador, F., Foroutan, R., **Esmaeili, H.** and Ramavandi, B., 2021. Enhancement of the chromium removal behavior of Moringa oleifera activated carbon by chitosan and iron oxide nanoparticles from water. *Carbohydrate Polymers*, 251, p.117085. **Impact factor=7.1 (Q1)**
- 8- Bahador, F., Foroutan, R., Nourafkan, E., Peighambardoust, S.J. and **Esmaeili, H.**, Enhancement of biodiesel production from chicken fat using MgO and MgO@ Na₂O nanocatalysts. *Chemical Engineering & Technology*. 2021. **Impact factor=1.5 (Q2)**
- 9- R. Foroutan, R. Mohammadi, **H. Esmaeili**, F. Mirzaee Bektashi, S. Tamjidi, Transesterification of waste edible oils to biodiesel using calcium oxide@magnesium oxide nanocatalyst derived from waste chicken eggshell, *Waste Management*, 105 (2020) 373-383. **Impact factor=5.4 (Q1)**
- 10- K. Seffati, **H. Esmaeili**, B. Honarvar, N. Esfandiari, AC/CuFe₂O₄@CaO as a novel nanocatalyst to produce biodiesel from Chicken Fat. *Renewable Energy*, 147 (1), 2020, 25-34. **Impact factor=6.2 (Q1)**
- 11- **Esmaeili, H.** and Tamjidi, S., 2020. Ultrasonic-assisted synthesis of natural clay/Fe₃O₄/graphene oxide for enhance removal of Cr (VI) from aqueous media. *Environmental Science and Pollution Research*, pp.1-13. **Impact factor=3.05 (Q2)**

- 12- Ansari Mojarad, A., Tamjidi, S. and **Esmaeili, H.**, 2020. Clay/starch/Fe₃O₄ nanocomposite as an efficient adsorbent for the removal of methyl violet dye from aqueous media. *International Journal of Environmental Analytical Chemistry*, pp.1-22. **Impact Factor=1.5 (Q2)**
- 13- Mirzapour, P., Kamyab Moghadas, B., Tamjidi, S. and **Esmaeili, H.**, 2020. Activated carbon/bentonite/Fe₃O₄ nanocomposite for treatment of wastewater containing Reactive Red 198. *Separation Science and Technology*, pp.1-15. **Impact Factor=1.7 (Q2)**
- 14- **Esmaeili, H.**, Mousavi, S.M., Hashemi, S.A., Chiang, W.H. and Abnavi, S.A., 2020. Activated carbon@ MgO@ Fe₃O₄ as an efficient adsorbent for As (III) removal. *Carbon Letters*, pp.1-12. **Impact factor=1.9 (Q2)**
- 15- **Esmaeili, H.** and Hashemi, S.A.A., 2020. Clay/MgFe₂O₄ as a Novel Composite for Removal of Cr (VI) From Aqueous Media. *ChemistrySelect*, 5(30), pp.9377-9387. **Impact factor= 1.8 (Q2)**
- 16- Takmil, F., **Esmaeili, H.**, Mousavi, S.M. and Hashemi, S.A., 2020. Nano-magnetically modified activated carbon prepared by oak shell for treatment of wastewater containing fluoride ion. *Advanced Powder Technology*. **Impact factor=4.2 (Q1)**
- 17- Boushehrian, M.M., **Esmaeili, H.** and Foroutan, R., 2020. Ultrasonic assisted synthesis of Kaolin/CuFe₂O₄ nanocomposite for removing cationic dyes from aqueous media. *Journal of Environmental Chemical Engineering*, p.103869. **Impact factor=4.3 (Q1)**
- 18- Keshavarz, M., Foroutan, R., Papari, F., Bulgariu, L. and **Esmaeili, H.**, 2020. Synthesis of CaO/Fe₂O₃ nanocomposite as an efficient nanoadsorbent for the treatment of wastewater containing Cr (III). *Separation Science and Technology*, pp.1-14. **Impact factor=1.7 (Q2)**
- 19- A. Ahmadi, R. Foroutan, **H. Esmaeili**, S. Tamjidi, The role of bentonite clay and bentonite clay@MnFe₂O₄ composite and their physico-chemical properties on the removal of Cr(III) and Cr(VI) from aqueous media, *Environmental Science and Pollution Research*, 2020. <https://doi.org/10.1007/s11356-020-07756-x>. **Impact factor=3.05 (Q2)**
- 20- **H. Esmaeili**, R. Foroutan, D. Jafari, Mohammad A. Rezaei, Effect of interfering ions on phosphate ion removal from aqueous media using magnesium oxide@ferric molybdate nanocomposite, *Korean Journal of Chemical Engineering*, 2020, 37, pp.804-814. **Impact factor=2.7 (Q2)**
- 21- Aboli, E., Jafari, D. & **Esmaeili, H.** Heavy metal ions (lead, cobalt, and nickel) biosorption from aqueous solution onto activated carbon prepared from Citrus limetta

leaves. Carbon Letters (2020). <https://doi.org/10.1007/s42823-020-00141-1> **Impact factor=1.9 (Q2)**

- 22- **H. Esmaeili**, S. Tamjidi, M. Abed, Removal of Cu (II), Co (II) and Pb (II) from synthetic and real wastewater using calcified Solamen Vaillantii snail shell, Desalination and Water Treatment, 174 (2020) 324-335. **Impact factor=1.2 (Q3)**
- 23- R. Khalifeh, **H. Esmaeili**, Biodiesel production from goat fat using calcium oxide nanocatalyst and its combination with diesel, International Journal of Sustainable Engineering, 2020. **Impact factor=0 and (Q1)**
- 24- A. Sharafzad, S. Tamjidi, **H. Esmaeili**, Calcined lotus leaf as a low-cost and highly efficient biosorbent for removal of methyl violet dye from aqueous media, International Journal of Environmental Analytical Chemistry, 2020. Impact factor=1.5
- 25- Mousavi, S.M., Hashemi, S.A., Zarei, M., Bahrani, S., Savardashtaki, A., **Esmaeili, H.**, Lai, C.W., Mazraedoost, S., Abassi, M. and Ramavandi, B., 2020. Data on cytotoxic and antibacterial activity of synthesized Fe₃O₄ nanoparticles using Malva sylvestris. Data in brief, 28, p.104929.
- 26- S. A. Hashemi, M. Mousavi, S. Ramakrishna, **H. Esmaeili**, S. Bahrani, M. Koosha, A. Babapoor, Green Synthesis of Supermagnetic Fe₃O₄-MgO Nanoparticles via Nutmeg Essential Oil Toward Superior Anti-Bacterial and Anti-Fungal Performance, Journal of Drug Delivery Science and Technology, 54 (2019) 101352. Impact factor=2.5
- 27- H. Rasouli, **H. Esmaeili**, Characterization of MgO nanocatalyst to produce biodiesel from goat fat using transesterification process, 3 Biotech, (2019) 9: 429. Impact factor=1.8
- 28- Abshirini, Y., **Esmaeili, H.**, and Foroutan, R. Enhancement removal of Cr (VI) ion using magnetically modified MgO nanoparticles. Materials Research Express. (2019). Impact factor=1.9
- 29- K. Seffati, B. Honarvar, **H. Esmaeili**, N. Esfandiari, Enhanced biodiesel production from chicken fat using CaO/CuFe₂O₄ nanocatalyst and its combination with diesel to improve fuel properties. Fuel, 235 (2019) 1238-1244. Impact factor=5.5
- 30- M. Rahmati, G. Yeganeh and **H. Esmaeili**, Sulfate Ion Removal from Water Using Activated Carbon Powder Prepared by Ziziphus Spina-Christi Lotus Leaf, Acta Chimica Slovenica, 66 (2019) 1-11. Impact factor=1.1

- 31- E. Koohzad, D. Jafari, **H. Esmaeili**, Adsorption of Lead and Arsenic ions from Aqueous solution by Activated Carbon Prepared from Tamarix Leaves, *Chemistry Select*, 2019, 4(42), pp.12356-12367. Impact factor=1.8
- 32- G. Yeganeh, B. Ramavandi, **H. Esmaeili**, S. Tamjidi, Dataset of the aqueous solution and petrochemical wastewater treatment containing ammonia using low cost and efficient bio-adsorbents, *Data in Brief*, 26 (2019) 104308.
- 33- R. Foroutan, R. Mohammadi, **H. Esmaeili**, S. Farjadfard, Ba. Ramavandi, Eggshell nano-particle potential for methyl violet and mercury ion removal: Surface study and field application. *Advanced Powder Technology*, 2019. Impact factor=1.2
- 34- S. Tamjidi, **H. Esmaeili**, B. Kamyab Moghadas, Application of magnetic adsorbents for removal of heavy metals from wastewater: A review study, *Materials Research Express*, 2019, 6(10), p.102004. Impact factor=1.9
- 35- Foroutan, R., Oujifard, A., Papari, F. and **Esmaeili, H.**, 2019. Calcined Umbonium vestiarium snail shell as an efficient adsorbent for treatment of wastewater containing Co (II). *3 Biotech*, 9(3), p.78. Impact factor=1.8
- 36- **H. Esmaeili**, G. Yeganeh, F. Esmaeilzadeh, Optimization of biodiesel production from *Moringa oleifera* seeds oil in the presence of nano-MgO using Taguchi method, *International Nano Letters*, 2019. DOI: 10.1007/s40089-019-0278-
- 37- Habiby, S.R., **Esmaeili, H.** and Foroutan, R., 2019. Magnetically modified MgO nanoparticles as an efficient adsorbent for phosphate ions removal from wastewater. *Separation Science and Technology*, pp.1-12. Impact factor=1.7
- 38- S. Abbasi, R. Foroutan, **H. Esmaeili**, F. Esmaeilzadeh. Preparation of activated carbon from worn tires for removal of Cu(II), Ni(II) and Co(II) ions from synthetic wastewater. *Desalination and Water treatment*, 141 (2019) 269-278. Impact factor=1.2
- 39- R. Foroutan, R. Mohammadi, S. Farjadfard, **H. Esmaeili**, M. Saberi, S. Sahebi, S. Dobaradaran, B. Ramavandi. Characteristics and performance of Cd, Ni, and Pb bio-adsorption using *Callinectes sapidus* biomass: real wastewater treatment. *Environmental Science and Pollution Research* (2019). 26(7), pp.6336-6347. Impact factor=3
- 40- S. Tamjidi, **H. Esmaeili**, Chemically modified CaO/Fe₃O₄ nanocomposite by Sodium dodecyl sulfate for Cr (III) removal from water, *Chemical Engineering and Technology*, 42 (2019) 607-616. Impact factor=3.7
- 41- S. Abbasi, R. Foroutan, **H. Esmaeili**, F. Esmaeilzadeh, Preparation of activated carbon from worn tires for removal of Cu(II), Ni (II) and Co (II) ions from synthetic wastewater, *Desalination and Water Treatment*, 141 (2019) 269. Impact factor=1.2

- 42- **Esmaeili, H.**, Esmaeilzadeh, F. and Mowla, D., 2019. Mathematical Modeling of Destabilizing Gas Condensate Droplets in Water Emulsions Using the Population Balance Method. *Tenside Surfactants Detergents*, 56(2), pp.119-125. Impact factor=1
- 43- Foroutan, R., **Esmaeili, H.**, Mousavi, S.M., Hashemi, S.A. and Yeganeh, G., 2019. The Physical Properties of Biodiesel-Diesel Fuel Produced via Transesterification Process from Different Oil Sources. *Physical Chemistry Research*, 7(2), pp.415-424.
- 44- Abshirini, Y., Foroutan, R. and **Esmaeili, H.**, Cr (VI) removal from aqueous solution using activated carbon prepared from *Ziziphus spina-christi* leaf. *Materials Research Express*. 6 (2019) 045607. <https://doi.org/10.1088/2053-1591/aafb45>. Impact factor=1.9
- 45- **H. Esmaeili**, R. Foroutan. Adsorptive behavior of methylene blue onto sawdust of sour lemon, date palm and eucalyptus as agricultural wastes. *Journal of Dispersion Science and Technology*, 2019. DOI:10.1080/01932691.2018.1489828. Impact factor=1.7
- 46- **H. Esmaeili**, T. Armaghani, A. Abedini, I. Pop, Turbulent combined forced and natural convection of nanofluid in a 3D rectangular channel using two-phase model approach, *Journal of Thermal Analysis and Calorimetry*. 135, no. 6 (2019): 3247-3257. Impact factor=2.7
- 47- Foroutan, R., **Esmaeili, H.**, Sanati, A.M., Ahmadi, M. and Ramavandi, B., Adsorptive removal of Pb (II), Ni (II), and Cd (II) from aqueous media and leather wastewater using *Padinasanctae-crucis* biomass. *Desalination and Water Treatment*, 135 (2018) 236-246. Impact factor=1.2
- 48- Mousavi, M., Hashemi, A., Arjmand, O., Amani, A.M., Babapoor, A., Fateh, M.A., Fateh, H., Mojoudi, F., **Esmaeili, H.** and Jahandideh, S., 2018. Erythrosine Adsorption from Aqueous Solution via Decorated Graphene Oxide with Magnetic Iron Oxide Nano Particles: Kinetic and Equilibrium Studies. *Acta Chimica Slovenica*. DOI: <http://dx.doi.org/10.17344/acsi.2018.4537> Impact factor=1.1
- 49- Mousavi, S.M., Hashemi, S.A., **Esmaeili, H.**, Amani, A.M. and Mojoudi, F., 2018. Synthesis of Fe₃O₄ Nanoparticles Modified by Oak Shell for Treatment of Wastewater Containing Ni (II). *Acta Chimica Slovenica*, 65(3), pp.750-756. Impact factor=1.1
- 50- Foroutan, R., **Esmaeili, H.**, Abbasi, M., Rezakazemi, M. and Mesbah, M., 2018. Adsorption behavior of Cu (II) and Co (II) using chemically modified marine algae. *Environmental technology*, 39(21), pp.2792-2800. Impact factor=2.2
- 51- Mousavi, S.M., Hashemi, S.A., Amani, A.M., **Esmaeili, H.**, Ghasemi, Y., Babapoor, A., Mojoudi, F. and Arjomand, O., 2018. Pb (II) Removal from Synthetic Wastewater

Using Kombucha Scoby and Graphene Oxide/Fe₃O₄. *Physical Chemistry Research*, 6(4), pp.759-771.

- 52- Fatemeh Ahmadi, **H. Esmaili**, Chemically modified bentonite/Fe₃O₄ nanocomposite for Pb(II), Cd(II), and Ni(II) removal from synthetic wastewater, *Desalination and Water Treatment*, 2018, 110:154-167. Impact factor=1.2
- 53- M. Keihani, **H. Esmaili**, P. Rouhi, Biodiesel Production from Chicken Fat Using Nano-calcium Oxide Catalyst and Improving the Fuel Properties via Blending with Diesel, *Physical Chemistry Research*, 2018, 6(3):521-529.
- 54- R. Mahini, **H. Esmaili**, R. Foroutan, Adsorption of methyl violet from aqueous solution using brown algae *Padina sanctae-crucis*, *Turkish Journal of Biochemistry*, 2018. 43(6): 623-631. Impact factor=0.37
- 55- Armaghani, T., **Esmaili, H.**, Mohammadpoor, Y.A. Pop, I. MHD mixed convection flow and heat transfer in an open C-shaped enclosure using water-copper oxide nanofluid, *Heat and Mass Transfer* (2018). 54(6): 1791–1801. Impact factor=1.86
- 56- B. Shamsi Zadeh, **H. Esmaili**, R. Foroutan, Cadmium (II) removal from aqueous solution using microporous eggshell: Kinetic and equilibrium studies, *Indonesian Journal of Chemistry*, 2018. 18(2). DOI: 10.22146/ijc.28789.
- 57- A. Teimouri, **H. Esmaili**, R. Foroutan, B. Ramavandi, Adsorptive performance of calcined *Cardita bicolor* for attenuating Hg(II) and As(III) from synthetic and real wastewaters, *Korean Journal of Chemical Engineering*, 35 (2) 2018, PP: 479–488. Impact factor=2.7
- 58- **H. Esmaili**, K. Karimi, "Optimization of fermentation conditions for efficient ethanol production by *Mucor hiemalis*" *Turkish Journal of Biochemistry*, 2018. 43 (6): 587-594. Impact factor=0.37
- 59- **H. Esmaili**, F. Esmailzadeh, D. Mowla, Effect of salinity, pH and temperature on stability of gas condensate in water emulsions by different surfactants, *Iranian Journal of Chemistry and Chemical Engineering*, 38(3) (2019) 151-166. Impact factor=0.6
- 60- **H. Esmaili**, F. Esmailzadeh, D. Mowla, Destabilization and separation of gas condensate from wastewater using surfactant demulsifier, *Tenside, Surfactants, Detergents*, 2018, 55(2):153–161. Impact factor=1
- 61- F. Shakerian Kho, **H. Esmaili**, " Synthesis of CaO/Fe₃O₄ magnetic composite for the removal of Pb (II) and Co (II) from synthetic wastewater" *Journal of the Serbian Chemical Society*, 2018, 43(2):98-98. Impact factor=1.1

- 62- Vaferi, B., Lashkarbolooki, M., **Esmaeili, H.**, Shariati A.R., To ward artificial intelligence-based modeling of vapor liquid equilibria of carbon dioxide and refrigerant binary systems, *Journal of the Serbian Chemical Society*, (2018), 83(2):199-211. Impact factor=1.1
- 63- **H. Esmaeili**, R. Foroutan, Optimization of biodiesel production from goat tallow using alkaline catalysts and combining them with diesel, *Chemistry & Chemical Technology*, (2018), 12(1): 120-126.
- 64- R. Foroutan, **H. Esmaeili**, S. M. Derakhshandeh Rishehri, F. Sadeghzadeh, S. R. Mirahmadi, M. Kosarifard, B. Ramavandi "Zinc, nickel, and cobalt ions removal from aqueous solution and plating plant wastewater by modified *Aspergillus flavus* biomass: A data set", *Data in Brief*. 2017; 12: 485–492.
- 65- F. Saberzadeh Sarvestani, **H. Esmaeili**, B. Ramavandi, "Modification of *Sargassum angustifolium* by molybdate during a facile cultivation for high-rate phosphate removal from wastewater: structural characterization and adsorptive behavior" *3 Biotech*, (2016) 6:251. Impact factor=1.8
- 66- Zendehboudi, A. and **Esmaeili, H.**, 2016. Effect of supply/regeneration section area ratio on the performance of desiccant wheels in hot and humid climates: an experimental investigation. *Heat and Mass Transfer*, 52(6), pp.1175-1181. Impact factor=1.86
- 67- **Esmaeili, H.**, Esmaeilzadeh, F. and Mowla, D., 2014. Effect of surfactant on stability and size distribution of gas condensate droplets in water. *Journal of Chemical & Engineering Data*, 59(5), pp.1461-1467. Impact factor=2.3
- 68- Vaferi, B., Karimi, M., Azizi, M. and **Esmaeili, H.**, 2013. Comparison between the artificial neural network, SAFT and PRSV approach in obtaining the solubility of solid aromatic compounds in supercritical carbon dioxide. *The Journal of Supercritical Fluids*, 77, pp.44-51. Impact factor=3.2
- 69- **Esmaeili, H.**, Azizi, S. and Mowla, D., 2012. Modeling of Colloid Adsorption in Colloidal Suspension by Using of Adsorbent Particles. *Journal of Dispersion Science and Technology*, 33(11), pp.1552-1559. Impact factor=1.7

As reviewer in the following Journals:

Energy Conversion and Management (1 paper)
 Journal of Cleaner Production (1 paper)
 Science of the Total Environment (1 paper)
 Advanced Powder Technology (1 paper)
 Powder Technology (1 paper)
 Biomass Conversion and Biorefinery (1 paper)

Environmental Research Letters (1 paper)
 Nano (1 paper)
 Biofuels, Bioproducts & Biorefining (1 paper)
 Case studies in thermal engineering (1 paper)
 Data in Brief (8 papers)
 Environmental Technology (1 paper)
 Journal of Material Science (1 paper)
 Journal of Environmental technology reviews (1 paper)
 Journal of Materials Research Express (3 papers)
 Environmental Progress and Sustainable Energy (8 papers)
 Desalination and Water Treatment (4 papers)
 International Journal of Environmental Analytical Chemistry (2 papers)
 Physical Chemistry Research (21 papers)
 Biofuels (1 paper)
 Current Genomics (1 paper)
 Environmental Engineering and Management Journal (1 paper)
 AIMS Energy (1 paper)
 The 5th International Conference on Water Resource and Environment (WRE 2019)
 (3 papers)

Teaching as workshop in the industry:

- South Pars Gas Complex (SPGC) Phase 15 and 16 Such as: **Biological method of wastewater treatment (24 hours), wastewater treatment (24 hours in 3 days)**
- Jam Refinery (**Essay Writing in Persian and English Language (16 hours)**)
- Jam Refinery (**wastewater treatment (24 hours in 3 days)**)
- Siraf Bandar (**wastewater treatment (16 hours in 2 days)**)
- South Pars Gas Complex (SPGC) Phase 4 and 5: Teaching on **Separation and distillation column (24 hours in 3 days)**
- Jam Refinery: Teaching on **Advanced gas sweetening (24 hours in 3 days)**
- South Pars Gas Complex (SPGC) Phase 4 and 5: Teaching on **Dehydration and Drying of Natural Gases (24 hours in 3 days)**
- Abadan Oil Refining Company: Teaching on **Drying of Solids (24 hours in 3 days)**
- Kimia petrochemical Company: Teaching on **Control process (64 hours in 8 days)**
- Kimia petrochemical Company: Teaching on **Types of Boilers and their application (32 hours in 4 days)**

Work Experiences:

□ Head of Chemical Engineering Department, September 2012-September 2014 and August 2015-August 2017.

□ Teaching *Unit operation 1 and 2, Fluid Mechanics 1, Material and Energy Balance, Heat Transfer 1, Process Control 1 and 2, Laboratory of Heat transfer, Laboratory of Fluid Mechanic, Laboratory of Unit Operation, Laboratory of Process Control*, Department of Chemical Engineering, Faculty of Engineering, Islamic Azad University, Bushehr Branch, February 2010- present

□ Teaching *Advanced Heat transfer, Advanced Fluid Mechanics, Advanced Thermodynamics and Water and wastewater treatment*, Department of Chemical Engineering, Faculty of Engineering, Islamic Azad University, Bushehr branch, September 2014- present

□ Teaching *Advanced Thermodynamics, Surface phenomena, Advanced Fluid Mechanics, Advanced Heat transfer*, Department of Chemical Engineering, Faculty of Engineering, Kherad Institute of Higher Educations, September 2014 – January 2015.

□ Teaching **Advanced Thermodynamics, Design and Instruments of Process**, Department of Chemical Engineering, Faculty of Engineering, Islamic Azad University, Dashtestan branch, September February 2016- present

□ **Reservoir Simulation workshop from Total Company (France) in Shiraz University**, Shiraz, Iran, October 2010

□ **Pass the tutor (Intership) in Bandar Imam Petrochemical Company (1 month-2005)**

SOFTWARE SKILLS:

- ❖ MINITAB (Design of Experimental) (Intermediate)
- ❖ MATLAB (Intermediate)
- ❖ Microsoft Office (Professional)
- ❖ Artificial Neural Network (Beginner)
- ❖ Aspen-HYSYS (Intermediate)