

CURRICULUM VITAE

ANVAR ASADI

Assistant Professor

Gender: Male

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<https://scholar.google.com/citations?user=GDVuhdsAAAAJ&hl=en>

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SUMMARY

- Assistant Professor, Kermanshah University of Medical Sciences(KUMS), Kermanshah, Iran (**2016-present**)
- Interested in nanotechnology and photocatalysis and application for water/wastewater treatment
- PhD with the title of “Study on removal of non-steroidal anti-inflammatory drugs (Ibuprofen and Naproxen) from water by nano-photocatalytic process using N-S co-doped TiO₂ under simulated solar irradiation” March **2016**, Iran, M.Sc. in Environmental Health Engineering **2011** with title of “Investigation of nanophotocatalyst UV/H₂O₂/ZnO for treatment of water containing Cr(VI)”, Iran, Bachelor in Environmental Health Engineering, **2009**, Iran.
- Study, research, project works and job experience in environmental application of nanotechnology and photocatalysis, especially in the area of water & wastewater treatment.
- Qualified in synthesizing, characterization and application of nanomaterial.
- Qualified in water and wastewater treatment and management teaching.
- Qualified in teaching Hydraulic and fluid mechanic and water treatment
- Computer Literacy: Word Processing, Spreadsheet (e.g. Excel and origin), PowerPoint, Internet browsing and Literature researching, AutoCAD.

- Proficient English, Fluent Persian and Kurdish (mother tongue).
- Membership of foundation of Elite in Iran.

EDUCATIONAL QUALIFICATION

- **PhD:** Environmental Health Engineering, Shahid Beheshti University of Medical Sciences, **2016**
- **M.Sc:** Environmental Health Engineering, Tehran University of Medical Sciences, **2011.**
- **B.Sc:** Environmental Health Engineering, Tehran University of Medical Sciences, **2009.**

OFFICIAL WORK EXPERIENCE

1. **09/2016-now**, Assistant Professor, Department of Environmental Health Engineering, School of Public Health, Kermanshah University of Medical Sciences (KUMS), Kermanshah, Iran
2. **09/2012-05/2014**, Lecturer, Department of Environmental Health Engineering, Shahid Beheshti University of Medical Sciences, Tehran, Iran, Iran

COURSE TEACHING

- Hydraulic
- Fluid Mechanic
- Wastewater Treatment
- Application of Biotechnology in environmental health
- Environmental Impact Assessment
- Pollutants Fate in the Environment
- Housing Health
- Disinfection
- Environmental Health
- Environmental Impact Assessment (EIA)
- Fate and Transport of pollutants in the Environment
- Soil Pollution Control

RESEARCH PROJECTS

- Working as a PI and co-PI for more than **20** Environmental research projects (information available in Persian)

WORK SHOPS TRAINING& CERTIFICATION

- Attended **25** national workshops and training courses (information available in Persian)

NATIONAL CONFERENCE

- Presented **14** national conference papers and posters (information available in Persian)

INTERNATIONAL CONFERENCE

1. The role of environmental condition and preventive behaviors in leishmaniasis based on BASNEF model in people referring to health care centers of earthquake hit cities (Kermanshah province, Iran) in 2018, 3rd International and 21th National Conference on Environmental Health and Sustainable Development, **2019**
2. Effect of synthesis method on NS-TiO₂ photocatalytic performance, 10th International Conference on Applied Energy (ICAE2018), 22-25 August 2018, Hong Kong, China, **2018**
3. Titanate based photocatalysts for climate-efficient water treatment, 10th International Conference on Applied Energy (ICAE2018), 22-25 August 2018, Hong Kong, China, **2018**
4. The Occurrence and Analysis of Non-Steroidal Anti-Inflammatory Drugs in Tehran Source Water, Municipal and Hospital Wastewaters and Their Environmental Risk Assessment, 2nd International and 20th National Conference on Environmental Health and Sustainable Development, **2017**
5. Investigation of the Efficiency of Sequential Batch Reactor Using by Aerobic Method for Reduction of Organic Matter in Methyl tertiary-butyl ether (MTBE) Unit, 2nd International and 20th National Conference on Environmental Health and Sustainable Development, **2017**
6. Toxicity of By-products Resulted from Photodegradation of Toluene by UV/ZnO Process, 2nd International and 20th National Conference on Environmental Health and Sustainable Development, **2017**
7. Investigation on comparison of nano-alumina and aluminum powder in nitrate removal from aqueous solutions: adsorption isotherms, 15 Tabriz International Medical Sciences Congress, **2012**

SELECTED ISI PUBLICATIONS

1. Highly efficient visible-driven reduction of Cr(VI) by a novel black TiO₂ photocatalyst, Rokhsareh Akbarzadeh, Negin Farhadian, Anvar Asadi, Tahereh Hasani, Setaya Salehi Morovat, Environmental Science and Pollution Research, **2021**, 28(8), pp. 9417–9429.
2. Fabrication of novel magnetic CuS/Fe₃O₄/GO nanocomposite for organic pollutant degradation under visible light irradiation, Nasseh, N., Arghavan, F.S., Daglioglu, N., Asadi, A., Environmental Science and Pollution Research, **2021**.

3. Enhanced heterogeneous Fenton oxidation of organic pollutant via Fe-containing mesoporous silica composites: A review, Negin Farhadian, Shiquan Liu, Anvar Asadi, Mohsen Shahlaei, Sajad Moradi, *Journal of Molecular Liquids*, **2021**, 321, 114896.
4. Simultaneous brewery wastewater treatment and hydrogen generation via hydrolysis using Mg waste scraps, Akbarzadeh, R., Adeniran, J.A., Lototsky, M., Asadi, A., *Journal of Cleaner Production*, **2020**, 276, 123198.
5. Ionic liquid-decorated Fe₃O₄@SiO₂ nanocomposite coated on talc sheets: An efficient adsorbent for methylene blue in aqueous solution, A Alizadeh, M Fakhari, Z Safaei, MM Khodeai, E Repo, A Asadi, *Inorganic Chemistry Communications*, **2020**, 121, 108204.
6. A global systematic review and meta-analysis on illicit drug consumption rate through wastewater-based epidemiology, Shabnam Zarei, Yahya Salimi, Eveliina Repo, Nebile Daglioglu, Zahra Safaei, Evsen Güzel, Anvar Asadi, *Environmental Science and Pollution Research*, **2020**, 27(29), pp. 36037–36051.
7. Estimating alcohol consumption by using wastewater-based epidemiology in Adana Province, Turkey, Daglioglu, N., Atasoy, A., Asadi, A., Guzel, E.Y., Dengiz, H., *Environmental Science and Pollution Research*, **2020**, 27(25), pp. 31884–31891
8. Photocatalytic degradation of ibuprofen and naproxen in water over NS-TiO₂ coating on polycarbonate: Process modeling and intermediates identification, Akbar Eslami, Mostafa M Amini, Anvar Asadi, Ali Asghar Safari, Nebile Daglioglu, *Inorganic Chemistry Communications*, **2020**, 115, 107888,
9. Enhanced photocatalytic degradation of tetracycline from aqueous solution by a novel magnetically separable FeNi₃/SiO₂/ZnO nano-composite under simulated sunlight: Efficiency, stability, and kinetic studies, Negin Nasseh, Ayat Hossein Panahi, Marzie Esmati, Nebile Daglioglu, **Anvar Asadi***, Hajar Rajati, Faranak Khodadoost, *Journal of Molecular Liquids*, **2020**.
10. Bioaccumulation of potentially toxic elements (PTEs) in muscle Tilapia spp fish: a systematic review, meta-analysis, and non-carcinogenic risk assessment, Yadolah Fakhri, Ali Atamaleki, **Anvar Asadi**, Seyed Mehdi Ghasemi, Amin Mousavi Khaneghah, *Toxin Reviews*, **2019**.
11. Fabrication of novel 2D Ag-TiO₂/γ-Al₂O₃/Chitosan nano-composite photocatalyst toward enhanced photocatalytic reduction of nitrate, Shabnam Zarei, Negin Farhadian, Rokhsareh Akbarzadeh, Meghdad Pirsaeheb, **Anvar Asadi***, Zahra Safaei, *International journal of biological macromolecules*, **2019**.
12. Fabrication of highly visible active N, S co-doped TiO₂@MoS₂ heterojunction with synergistic effect for photocatalytic degradation of diclofenac: Mechanisms, modeling and degradation pathway, Mozghan Irandost, Rokhsareh Akbarzadeh, Meghdad Pirsaeheb, **Anvar Asadi**, Mika Sillanpää, *Journal of Molecular Liquids*, **2019**, 291: 111342.
13. Effect of synthesis method on NS-TiO₂ photocatalytic performance, **Anvar Asadi**, Rokhsareh Akbarzadeh, Akbar Eslami, Tien-Chien Jen, Peter Ozaveshe Oviroh, *Energy Procedia*, **2019**, 158, 4542-4547.

14. Mapping 123 million neonatal, infant and child deaths between 2000 and 2017, Roy Burstein et. Al, *Nature*, **2019**, 574, 353-358.
15. Titanate based photocatalysts for climate-efficient water treatment, Rokhsareh Akbarzadeh, Tien-Chien Jen, **Anvar Asadi**, Peter Ozaveshe Oviroh, *Energy Procedia*, **2019**, 158, 4542-4547.
16. Interactions of Cd, Cr, Pb, Ni, and Hg in their effects on activated sludge bacteria by using two analytical methods, Ayat Rahmani, **Anvar Asadi**, Ali Fatehizadeh, Abdol Rasool Rahmani, Mohammad Reza Zare, **2019**, *Environmental monitoring and assessment* 191 (3), 124.
17. Measurement of permethrin, deltamethrin and malathion pesticide residues in the wheat flour and breads and probabilistic health risk assessment: a case study in Kermanshah, Iran, Meghdad Pirsaeheb, Yadolah Fakhri, Mohammad Karami, Rokhsareh Akbarzadeh, Zahra Safaei, Nazir Fatahi, Mika Sillanpää, **Anvar Asadi**, *International Journal of Environmental Analytical Chemistry*, **2019**, 1-12.
18. Photo-assisted catalytic degradation of acetaminophen using peroxymonosulfate decomposed by magnetic carbon heterojunction catalyst, Mohammad Noorisepehr, Khashayar Ghadirinejad, Babak Kakavandi, Amirhosein Ramazanpour Esfahani, Anvar Asadi, *Chemosphere* **2019**, 232, 140-151.
19. Preparation, characterization and catalytic potential of γ -Fe₂O₃@ AC mesoporous heterojunction for activation of peroxymonosulfate into degradation of cyfluthrin insecticide, Ramin Khaghani, Babak Kakavandi, Khashayar Ghadirinejad, Emad Dehghani Fard, Anvar Asadi, *Microporous and Mesoporous Materials*, **2019**, 284, 111-121.
20. Chitosan modified N, S-doped TiO₂ and N, S-doped ZnO for visible light photocatalytic degradation of tetracycline, Negin Farhadian, Rokhsareh Akbarzadeh, Meghdad Pirsaeheb, Tien-Chien Jen, Yadolah Fakhri, Anvar Asadi, *International journal of biological macromolecules*, **2019**, 132, 360-373.
21. Evaluation of polycyclic aromatic hydrocarbons (PAHs) in fish: a review and meta-analysis, Meghdad Pirsaeheb, Mozhgan Irandost, Fateme Asadi, Yadolah Fakhri, Anvar Asadi*, *Toxin Reviews*, **2020**, 39(3), pp. 205–213.
22. Degradation of trichloroethylene by sonophotolytic-activated persulfate processes: Optimization using response surface methodology, Hamideh Bahrami, Akbar Eslami, Ramin Nabizadeh, Anoushiravan Mohseni-Bandpi, Anvar Asadi, Mika Sillanpää, *Journal of Cleaner Production*, 198, **2018**, 1210.
23. Application of carbon quantum dots to increase the activity of conventional photocatalysts: A systematic review, Meghdad Pirsaeheb, Anvar Asadi, Mika Sillanpää, Negin Farhadian, *Journal of Molecular Liquids*, 271, **2018**, 857.
24. Efficiency of sequencing batch reactor for removal of organic matter in the effluent of petroleum wastewater, Abdolkazem Neisi, Shirin Afshin, Yousef Rashtbari, Ali Akbar

- Babaei, Yusef Omid Khaniabadi, Anvar Asadi, Mohammad Shirmardi, Mehdi Vosoughi, Data in brief, 19, **2018**, 2041.
25. Efficient nitrate adsorption from water by aluminum powder: kinetic, equilibrium and influence of anion competition studies, H Golestanifar, B Kakavandi, Z Safaei, A Asadi*, Y. FAKHRI, Environment protection engineering (3), **2018**. 19.
 26. Photocatalytic degradation of malathion using Zn²⁺-doped TiO₂ nanoparticles: statistical analysis and optimization of operating parameters, Simin Nasser, Mohammad Omidvar Borna, Ali Esrafil, Roshanak Rezaei Kalantary, Babak Kakavandi, Mika Sillanpää, Anvar Asadi*, Applied Physics A: 124(2) **2018**, 175.
 27. Concentrations of arsenic and lead in rice (*Oryza sativa* L.) in Iran: A systematic review and carcinogenic risk assessment, Yadolah Fakhri, Geir Bjørklund, Anoushiravan Mohseni Bandpei, Salvatore Chirumbolo, Hassan Keramati, Rokhsane Hosseini Pouya, Anvar Asadi, Nazak Amanidaz, Mansour Sarafraz, Amir Sheikhmohammadi, Zahra Baninameh, Seyed Mohsen Mohseni, Maryam Sarkhosh, Seyed Mehdi Ghasemi, Food and Chemical Toxicology: 113, **2018**, 267-277.
 28. Optimizing Parameters on Nanophotocatalytic Degradation of Ibuprofen Using UVC/ZnO Processes by Response Surface Methodology., N Rastkari, A Eslami, S Nasser, E Piroti, **A Asadi***, Polish Journal of Environmental Studies 26 (2), **2017**.
 29. Concentration of air pollutants as toxic matter in urban and rural areas of Ahvaz, Abdolkazem Neisi, Mehdi Vosoughi, Mohammad Shirmardi, Esmail Idani, Gholamreza Goudarzi, Sadeh Hazrati, Mohammad Javad Mohammadi, Anvar Asadi, Hosseinali Asgharnia, Bayram Hashemzadeh, Zeinab Ghaed Rahmat, Toxin reviews, 1-8. **2017**.
 30. Fluoride and nitrate adsorption from water by Fe (III)-doped scoria: optimizing using response surface modeling, kinetic and equilibrium study, Meghdad Pirsahab, Heshmat Mohammadi, Kiomars Sharafi, **Anvar Asadi***, Water Science and Technology: Water Supply. **2017**.
 31. Sodium dodecyl sulfate modified-zeolite as a promising adsorbent for the removal of natural organic matter from aqueous environments, Amir Hosein Mahvi, Mehdi Vosoughi, Mohammad Javad Mohammadi, **Anvar Asadi**, Bayram Hashemzadeh, Amir Zahedi, Soudabeh Pourfadakar, Health Scope: 5(1) **2016**.
 32. Degradation of Reactive Red 198 (RR198) from aqueous solutions by advanced oxidation processes (AOPS): O₃, H₂O₂/O₃ and H₂O₂/ultrasonic, M. A. Karami, K. Sharafi, **A. Asadi**, A. Bagheri, F. Yosefvand, S. Sh. Charganeh, N. Mirzaei, A. Velayati, Bulgarian Chemical Communications: 48(3) **2016**, 43-49.
 33. N, S co-doped TiO₂ nanoparticles and nanosheets in simulated solar light for photocatalytic degradation of non-steroidal anti-inflammatory drugs in water: a comparative study, A Eslami, MM Amini, AR Yazdanbakhsh, A Mohseni-Bandpei, AA Safari, **Anvar Asadi***, Journal of Chemical Technology and Biotechnology 91 (10), **2016**, 2693-2704.

34. N-doped TiO₂ nanosheets for photocatalytic degradation and mineralization of diazinon under simulated solar irradiation: Optimization and modeling using a response surface methodology, AA Salarian, Z Hami, N Mirzaei, SM Mohseni, **A Asadi***, H Bahrami, *Journal of Molecular Liquids* 220, **2016**, 183-191.
35. Application of mesoporous magnetic carbon composite for reactive dyes removal: Process optimization using response surface methodology, AJ Jafari, B Kakavandi, RR Kalantary, H Gharibi, **A Asadi**, A Azari, *Korean Journal of Chemical Engineering* 33 (10), **2016**, 2878-2890
36. Occurrence of non-steroidal anti-inflammatory drugs in Tehran source water, municipal and hospital wastewaters, and their ecotoxicological risk assessment, A Eslami, MM Amini, AR Yazdanbakhsh, N Rastkari, A Mohseni-Bandpei, Simin Nasser, Ehsan Piroti, **Anvar Asadi***, *Environmental monitoring and assessment* 187 (12), **2016**, 734.
37. Reduction of noxious Cr(VI) ion to Cr(III) ion in aqueous solutions using H₂O₂ and UV/H₂O₂ systems, MH Dehghani, B Heibati, **A Asadi**, I Tyagi, S Agarwal, VK Gupta, *Journal of Industrial and Engineering Chemistry* 33, **2016**, 197-200.
38. Batch and column studies for the adsorption of chromium (VI) on low-cost Hibiscus Cannabinus kenaf, a green adsorbent, Mohammad Omidvar Borna, Meghdad Pirsaeheb, Mehdi Vosoughi Niri, Reza Khosravi Mashizie, Babak Kakavandi, Mohammad Reza Zare, **Anvar Asadi***, *Journal of the Taiwan Institute of Chemical Engineers* 68, **2016**, 80-89.
39. Isotherm and kinetic studies on the adsorption of nitrate onto nanoalumina and iron-modified pumice, H Golestanifar, **A Asadi***, A Alinezhad, B Haybati, M Vosoughi, *Desalination and Water Treatment* 57 (12), **2016**, 5480-5487.
40. Optimization of sonochemical degradation of amoxicillin by sulfate radicals in aqueous solution using response surface methodology (RSM), A Eslami, **A Asadi**, M Meserghani, H Bahrami, *Journal of Molecular Liquids* 222, **2016**, 739-744.
41. Removal of hexavalent chromium from aqueous solution by adsorption on γ -alumina nanoparticles, H Golestanifar, B Haibati, H Amini, MH Dehghani, **A Asadi***, *Environment protection engineering* 41 (2), **2015**, 133—145.
42. Modified dehydrogenase enzyme assay for evaluation of the influence of Hg, Cd, and Zn on the bacterial community structure of a wastewater treatment plant, Mohammad-Reza Zare, Mohammad Mehdi Amin, Saeedeh Hemmati-Borji, Mahnaz Nikaeen, Bijan Bina, Seyed Hamed Mirhosseini, **Anvar Asadi**, *Toxicological & Environmental Chemistry: 97(5)* **2015**, 552-562.
43. A comprehensive study (kinetic, thermodynamic and equilibrium) of arsenic (V) adsorption using KMnO₄ modified clinoptilolite, M Massoudinejad, **A Asadi***, M Vosoughi, M Gholami, MA Karami, *Korean Journal of Chemical Engineering* 32 (10), **2015**, 2078-2086.

44. Reactive Red 120 dye removal from aqueous solution by adsorption on nano-alumina, K Nadafi, M Vosoughi, **A Asadi**, MO Borna, M Shirmardi, Journal of Water Chemistry and Technology 36 (3), **2014**, 125-133
45. Photocatalytic reduction of hexavalent chromium in aqueous solutions with zinc oxide nanoparticles and hydrogen peroxide, **A Assadi**, MH Deghani, N Rastkari, S Nasseri, AH Mahvi, Environment Protection Engineering 38 (4), **2012**, 5-16.

(* means corresponding author)

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Google Scholar link: <https://scholar.google.com/citations?user=GDVuhdsAAAAJ&hl=en>

Scopus Link:

<https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=56668487600&zone>

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PATENT(S)

1. Fabrication and application of 2D Ag-TiO₂/γ-Al₂O₃/Chitosan photocatalyst nanocomposite (Iranian Patent)
2. Filtrated and antibacterial hookah mouth stick based on silver nanoparticles attached to activated carbon and cellulose fibers (Iranian Patent)

BOOK(S)

1. Industrial wastewater, By: Fazlolah Changani, **Anvar Asadi**, Hafez Golestanifar, Ghashieh publication, **2011**.
2. Fluid mechanic and hydraulic, By: **Anvar Asadi**, Jamenagar publication, **2019**.
3. Life cycle assessment (LCA): in waste management and wastewater treatment, Akbar Eslami, **Anvar Asadi**, Mostafa Gharleghi, Boshra Publication, **2019**

DISSERTATION SUPERVISOR

1. Investigation the efficacy of nanophotocatalytic process nitrogen and sulfur doped TiO₂ and simultaneously coupling with MoS₂ under visible light for diclofenac removal from aqueous solutions (To receive MSc in Environmental Health Engineering).

2. The Survey of quality and quantity characterization of Kermanshah hospital solid wastes at 2017 (To receive MSc in Environmental Health Engineering).
3. Survey on the type, mass loadings, estimates of drug use and sewage epidemiology of illicit drugs in water and wastewater of western cities in Iran (Case study: Sanandaj, Kermanshah and Hamadan) (To receive MSc in Environmental Health Engineering)

DISSERTATION ADVISOR

1. Evaluation of the efficiency of Straw and Levy plants in urban sewage sediment stabilization with emphasis on reduction of Pb and Cd Metals, case study: Kermanshah wastewater treatment plant (To receive MSc in Environmental Health Engineering).
2. Investigation the number, size and diversity of microplastics contents in water and sediment of Qara- Souh River from Ravansar springhead to Gamasiab, 2019
3. The efficiency of persulfate activated with SnS₂-GO and WO₃- g-C₃N₄ magnetic nanocomposites in the removal of diazinon from the aqueous solutions.
4. Evaluation of the photocatalytic performance of magnetic nanocomposite supported based on bismuth for degradation of cloxacillin antibiotic under visible light irradiation

MEMBERSHIP IN SCIENTIFIC SOCIETIES

1. Iranian Association of Environmental Health
2. Human and earth association