

## Curriculum vitae



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### **Teaching Experience (M.Sc and Ph.D courses):**

- Applied Microbiology
- Wastewater treatment
- Environmental Biotechnology & Bioremediation

### **Full Articles Published In Refereed Journals:**

213. Shabnam Ahmadi, **Abbas Rezae**, 2023, Environmental pollution removal using electrostimulation of microorganisms by alternative current, **Enzyme and Microbial Technology**, Under review
212. Asma Nazemi Moezabadi, Ali Masoumi, Gholamreza Asadikaram, **Abbas Rezae**, 2023, Removal of diazinon from aqueous solutions using 3D electrochemical system including a nanocomposite of microbial cellulose/nanomagnetite, **Journal of Water Process Engineering**, 55, 104232, <https://doi.org/10.1016/j.jwpe.2023.104232>
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205. Batoul Mohebrad, Ghazaleh Ghods, **Abbas Rezaee**, Dairy wastewater treatment using immobilized bacteria on calcium alginate in a microbial electrochemical system, **Journal of Water Process Engineering**, 46, 102609, <https://doi.org/10.1016/j.jwpe.2022.102609>
204. Azra Naderi, **Abbas Rezaee**, Hasan Pasalari, Ali Esrafil, Roshanak Rezaei Kalantary, 2022, Bio-electrical stimulation process on degradation of Phenanthrene from aqueous solution using a novel anode modified with carbon cloth: Operational performance, microbial activity and energy,

**Ecotoxicology and Environmental Safety**, 239,113654  
<https://doi.org/10.1016/j.ecoenv.2022.113654>

203. Neda Seyedi Marghaki, Zohreh Akbari Jonoush, Abbas Rezaee, 2022, Chromium (VI) removal using microbial cellulose/ nano-Fe<sub>3</sub>O<sub>4</sub> @polypyrrole: Isotherm, kinetic and thermodynamic studies, **Materials Chemistry and Physics**, 278 (2022) 125696,  
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5. **Rezaee, A.** 2003. A rapid and sensitive assay of  $\beta$ -galactosidase in yeast cells. **Annals of Microbiology**. 53(3): 79-83.
4. **Rezaee, A.**, Behzadian Najad, Q. 2002. Comparison of the antibacterial efficacies of co-Trimazine and co- trimoxazole against *Listeria monocytogenes* in cyclosporin a treated mice. **The Journal of Medical Sciences**. 2(5-6): 209-212.
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## **Patents:**

- 1- Synthesis of Cellulose II using Microbial Cellulose by chemical/thermal Combined Treatment Method
- 2- Acetic acid analysis kit for industrial vinegars and laboratory solutions using ammonia buffer base
- 3- Sulfonation of recycled Poly (propylene) cups with liquid Sulfuric Acid
- 4- Application of rectangular waveform with low frequency alternating current in electrochemical process for color removal from wastewater
- 5- Removal of nitrate from wastewater using bioelectrochemistry process with sponge steel
- 6- Production of microbial cellulose using industrial wastes
- 7- Nitrate removal using denitrifying bacteria immobilized on microbial cellulose
- 8- Electroplating wastewater treatment
- 9- Odor removal of wastewater treatment systems.

- 10- Nitrate removal of drinking water
- 11- Removal wastewater color by organic polymers
- 12- Removal of mercury from dental wastewater by Algae
13. Removal of mercury from contaminated wastewater by microbial cellulose
14. Production of recombinant yeast with high biomass by genetical modification.
15. Removal of color and chemical oxygen Demand (COD) in water base color
16. Increase of ethanol production in recombinant *Saccharomyces cerevisiae* strain

### **Published Books:**

- 1- **Abbas Rezaee, A.**, Gowdini, H., Shams Khoramabadi, Mortazavi, S.B., Petroleum waste bioremediation
- 2- **Abbas Rezaee**, Ghanizadeh, Gh., Mortazavi, S.B., Khavanin, A., Wastewater treatment: design, operation & maintenance of activated sludge
- 3- Seyedbager Mortazavi, Mohamadtaghi Ghaneian, **Abbas Rezaee**, Ali Khavanin, Anaerobic wastewater treatment: design & operation of UASB reactors
- 4- Mahshid Loloie, **Abbas Rezaee**, Electrochemical advanced oxidation processes
- 5- Edris Hossinzadeh, **Abbas Rezaee**, Reza Barati Roshvanloum, Electrochemical process for water & wastewater treatment

### **Supervisor/ Ph.D Thesis:**

- 29- Zahra alizadeh, Removal of tetracycline from aqueous media using a three-dimensional electrochemical process containing microbial cellulose conducted and activated persulfate with iron nanoparticles, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jun. 2023
  
- 28- Elham Aseman, Removal of chromium from aqueous solution using nano-electrochemical system containing pyrite and microbial cellulose modified with polyaniline, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, July. 2022

- 27- Zohra Akbari, Nitrate reduction and disinfection of contaminated water using electrocatalytic activity of nickel foam electrode including iron nanoparticles, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Feb. 2021
- 26- Zohra Mogisa, Study of aspirin biodegradation from synthetic wastewater in a microbial electrochemical system, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Nov. 2020
- 25- Amir Mirshafie, Edible vegetable Oily wastewater treatment using of combined electrochemical method by steel mesh electrodes and bioelectrochemical process, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Sep. 2018
- 24- Batol Mohebrad, Cheese whey wastewater treatment and produce biosurfactant using bio-electrochemical systems including immobilized bacteria on calcium alginate. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Sep. 2018
- 23- Somayeh Dehghani, Study of bioelectrochemical process efficiency by applying alternating current on heterotrophic/autotrophic denitrification (HAD-BES) in aquatic environments, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Sep. 2018
- 22- Edris Hosinzadeh, Study of nitrate removal efficiency in bio-electrochemical process with alternating current (low voltage-very low frequency) with Ibuprofen as an organic carbon source, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jun 2018
- 21- Amir Adibzadeh, Oily wastewater treatment using lipase enzyme produced in fixed bed bioelectrochemical reactor (BER-FB), Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jun 2018
- 20- Mahshid Loloie, Removal of phenol and chromium (VI) using combining electrooxidation by coating metal oxide anodes and bioelectrochemical reduction with biocathode including sulfate-reducing bacteria from aqueous solutions, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Feb. 2017
- 19- Masoma Arjomand-Mogadam, Study of combination effect of supporting electrolytes (KI, NaF and NaCl) and ethanol on *Bacillus Subtilis* Spores removal using bipolar electrochemical method, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jan. 2016



18- Hoshyar Hossini, Elimination of Ammonium Nitrogen from synthetic Wastewater using microbial cellulose- bioelectrode in Bioelectrochemical systems, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Sept. 2015

17- Seyedenayat Hashemi, Pyrene removal from contaminated soils using electro kinetic system including bone char & surfactants, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, July 2014

16- Mahdi Safari, Bio-electrochemical removal of nitrate from wastewater using carbon nanotubes immobilized in cathode, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, July 2014

15- Mohamad Javad Assari, Sampling and microextraction of mercury vapors in occupational exposures using needle trap include gold nanoparticle-decorated bone char, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational Health, Sept. 2014

14- Sahand Jorfi, Pyrene removal from contaminated soils by sequence application of biosurfactant and hydrogen peroxide catalyzed by iron nano particles, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, June 2013

13- Hosseinali Rangkooy, Photocatalytic degradation of gaseous formaldehyde using ZnO nanoparticles immobilized on the bone char in lab scale, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational Health, Sept. 2013

12- Firoz Valipor, Removal of Pseudomonas aeruginosa from air using integrated method of microwave and photocatalytic ZnO nano particle immobilized on zeolite, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational Health, Dec. 2013

11-Reza Darvish Cheshmeh Soltani, Biological nitrification of synthetic wastewater using conventional biological nitrification integrated with nano-electrophotocatalytic process, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Feb 2013

10- Kashi, G., Removal of Bacillus subtilis spores from contaminated water by integrated method of electrophotocatalytic using zinc oxide nanoparticles. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, July 2012

9- Masombaigi, H. Photocatalytic removal of nitrate and bacterial agents from water by immobilized ZnO nanoparticles on glass. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Sept. 2011

- 8- Godini, H. Biological denitrification with immobilized bacteria on microbial cellulose produced by *Acetobacter xylinum* on up flow packed bed reactor. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Nov. 2008
- 7- Portagi, G.H. Toluene removal from air using TiO<sub>2</sub> nano particles coated on microbial cellulose by induction with ultra violet radiation. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Occupational Health, Feb.2009
- 6- Ghaneian, MT., Combination of TiO<sub>2</sub> photocatalytic and activated sludge process for the removal of reactive blue 19 dye and related organic material from synthetic textile wastewater. . Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jan. 2009
- 5- Ghanizadeh, G.,Removal of agents (*Escherichia coli* & *Streptococcus faecalis*) and endotoxin from drinking water by modified bone char and combination of ozone/ bone char . Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, Jan 2009
- 4- Derayat, J., Mercury removal from wastewater of chlor-alkali industries using cellulose of *Acetobacter xylinum*. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, July 2005
- 3- Pakzad, I., Evaluation of immune response against combination of recombinantfusion protein of L7/L12- human serum albumin with detoxified lipopolysaccharide of *Brucella abortus* in animal model. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Medical Bacteriology, March 2004
- 2- Arzanlou, M. Evaluation of immune response against recombinant *Saccharomyces cerevisiae* expressing B subunit of *Vibrio cholera* enterotoxin in animal model. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Medical Bacteriology, Jun 2005
- 1- Ahangarzarezaee, M. Evaluation of immune response against recombinant *Saccharomyces cerevisiae* expressing enterotoxigenic *Escherichia coli* heat-labile toxin B subunit(LTB) in animal model. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Medical Bacteriology, Sept. 2005

**Advisor/ Ph.D Thesis:**

- 1- Alireza Dehdashti, Removal of toluene from air using microwave and carbon active granules, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational health, June 2009
- 2- Reza Golamnia, Degradation of ascarol oils using photolysis in order to reduce occupational and environmental hazards, Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational health, Sept 2008
- 3- Porahmadi, A., Isolation, identification and purification of PT and FHA antigens from submerged culture of Bordetella pertusis strain 134, their use in immunity against whoopingcough using various antigens. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in medical bacteriology, July 2005
- 4- Hassannia, M.S., Assesment of yeast intron insertion of mRNA stability and expression of human alpha1 antitrypsin cDNA in Saccharomyces cerevisiae. Thesis submitted to Tarbiat for the degree of Ph.D in medical biochemistry, Jun 2006
- 5- Yousefelahi, M., The dietary effect of oak leaves on physiological properties and rumen microbiological factors in sheep and goat. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Animal Sciences , May. 2007
- 6- Nikpae, A., Removal of methyl-tert butyl ether(MTBE) from air by combination of catalytic conversion and bioremidation in attached growth bed. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in occupational health, Sept. 2005
- 7- Ghanad, M.J., The study of the effect of developed process of USBF on simultaneously removal efficiency phenol and 2, 4 dinitrophenol of Aqueous solution. Thesis submitted to Tarbiat Modares university for the degree of Ph.D in Environmental Health, June 2016.

### **Supervisor/ M.Sc Thesis:**

- 1- Fereshteh Ashrafi, Removal of Escherichia coli using electrochemical system containing a nanocomposite of microbial cellulose / magnetite nanoparticles synthesis by green chemistry, Feb. 2023
- 2- Asma Nazemi Moezabadi, Electrochemical removal of diazinon from aqueous solutions using microbial cellulose containing iron nanoparticles, Sept. 2022

- 3- Fatemeh Khoja, Bioelectrochemical removal of sulfate and iron from wastewater using immobilized sulfate reducing bacteria on microbial cellulose, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. July 2019
- 4- Neda Seyedi, Electrochemical reduction of chromium from wastewater using microbial cellulose contains iron nanoparticles, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Feb 2020
- 5- Masoma Zamanian, Treatment of dairy industry wastewater by electrochemical process using an aluminium mesh electrode, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. March 2018.
- 6- Soraya Fazeli, Simultaneous removal of nitrate and bacteria from contaminate water using electrochemical systems including activated carbon cloth as an anode and Cu/Zn as cathode, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. March 2018.
- 7- Mina Ghahrchi, Landfill leachate treatment using integration of electrochemical and catalytic ozonation process, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Feb 2018.
- 8- Fatemeh Hadadiyan, Application of Microbial Cellulose Bioelectrode for Bioelectrochemical Removal of Phenol, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. July 2015.
- 9- Nasiri, A., Nitrate removal from water using ZnO nanoparticles immobilized on the microbial cellulose. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health.
- 2- Tagavi, M., Photocatalytic degradation of toluene using ZnO nanoparticles immobilized on activated carbon. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Occupational Health.
- 3-Dehestani, S., Isolation and identification of effective denitrifier bacteria for nitrate removal by cultivation and molecular (PCR) methods. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Feb. 2008.
- 4- Naimi, N., Isolation and identification of effective nitrifier bacteria by cultivation and molecular (PCR) methods Thesis submitted to Tarbiat Modares university for the degree of

- M.Sc in Environmental Health. Jun 2008.
- 5- Omidvar, M., Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Occupational Health. Dec. 2007
  - 6- Zaroshani, V., Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Occupational Health. Sep. 2007
  - 7- Dehshiri, A., The study effects of *Acetobacter xylinum* and itsderivates (Cellulose acetate and carboxymthylcellulose) on *Candida albicans*. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Mycology. May 2006.
  - 8- Ramavandi, B., Mercury removal from Industrial wastewater by biological process ( algae). Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Nov. 2005
  - 9- Ahmadizad, S., Biodegradation of Methyle - Tertiary - Butyl Ether (MTBE ) by Isolated Microorganisms of Activated Sludge. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Nov. 2005
  - 10- Sabzali, A., Benzene decreasing from aqueous environments by integrated fenton and biological methods. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Nov. 2005
  - 11- Moradiyan, S., A comparative study on fentons oxidation, dioxid titanium and coagulation (Alum, ferrus sulfate and lime) in removal water base colors from aqueous solutions. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Environmental Health. Nov. 2005
  - 12- Varmazyar, S., Removal of toxic mercury from petrochemical wastewater with biological methods. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Occupational Health. Jun 2003
  - 13- Siyadat, S.D., Effect of disinfectant compounds(Cl & I) in transfer of antibiotic resistance to *Salmonella spp*. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Sept. 2000
  - 14- Babae, A., Identification of *Acintobacter spp* and evaluation of their plasmid profiling in bedridden ventilated patients in hospital ICU. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Aug. 2000

- 15- Golestani, M.R., Bactericidal effect of titanium dioxide with U.V light in watery media. .  
Thesis submitted to Tarbiat Modares university for the degree of M.Sc in  
Medical Bacteriology. Dec. 1999
- 16- Mosaddigh Mehrgerdi, A., Isolation and evaluation of cytotoxic activities of *Aeromonas spp.*  
From the waters of the lower part of Sefidrood dam. Thesis submitted to  
Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Dec. 1999
- 17- Solimanijavan, S., Study of antimicrobial effects of *Acetobacter xylinum* cellulose and  
metabolites on *Pseudomonas aeruginosa* and *Staphylococcus aureus*. Thesis  
submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology.  
Jan. 2004
- 18- Jalilian, K., Evaluation of the potential contamination and transmission of pathogenic agents  
by dominant coccidial species in hospital and household of Islam abad city (Kermanshah  
province). Thesis submitted to Tarbiat Modares university for the degree  
of M.Sc in Medical Entomology. Feb. 2004
- 19- Khasi, K., The evaluation of microbial contaminations (*Salmonella*, *Shigella* and  
*Escherichia coli*) transfer by fly in wastes of Kermanshah city. Thesis  
submitted to Tarbiat Modares university for the degree of M.Sc in Medical Entomology.  
Jul. 2005
- 20- Jahanshahi, M., Effect of sub inhibitory concentrations of Ampicillin and Gentamicin on  
hemagglutination of uropathogenic *E.coli*. Thesis submitted to Tarbiat  
Modares university for the degree of M.Sc in Medical Bacteriology. Sept. 2000
- 21- Mirfakhraee, F., Effect of sub inhibitory concentrations of Gentamicin and tetracycline on  
haemolytic activity of uropathogenic *E.coli*. thesis submitted to Tarbiat  
Modares university for the degree of M.Sc in Medical Bacteriology. Nov. 2000
- 22- Keshavarzi, M., Evaluation of caffeine and theophylline effect on the production of medical  
biofilms by *Acetobacter xylinum*. Thesis submitted to Tarbiat Modares  
university for the degree of M.Sc in Medical Bacteriology. Oct. 2000
- 23- Mobarhan, M., Effect of physicochemical agents on plasmid curing of *Escherichia coli*.  
Thesis submitted to Tarbiat Modares university for the degree of M.Sc in  
Medical Bacteriology. Jan. 2003

- 24-Mehrykhonsari, A., Effect of sub inhibitory concentration of gentamicin and nalidixic acid on beta lactamase production of uropathogenic *E.coli*. Thesis Submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Jan. 2005
- 25-Alipourfard, I., Role of *Saccharomyces cerevisiae* Mig1 gene on production of recombinant human serum albumin. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Biotechnology. Feb. 2005
- 26-Mohamadi, P., Effects of sub-MICs of antibiotics on transfer of drug resistance in enterococci. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Sept. 2000
- 27-Rahimizadeh, S., Preparation of recombinant thymidine kinase protein of Herpes simplex virus type I in prokaryotic system. Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Virology. Nov. 2004
- 28- Shokri, R., The study of pathogenic bacteria (*Plesiomonas shigelloides* and *Aeromonas*) and enterotoxin production on fish ponds, Thesis submitted to Tarbiat Modares university for the degree of M.Sc in Medical Bacteriology. Jun. 2001

**Designed, constructed and operated Projects:**

- 1- Design, construction and operation of Lala hospital wastewater treatment plant, Tehran, Iran
- 2- Design, construction and operation of Arsenjan wastewater treatment plant, Shiraz industrial Estate company, Iran
- 3- Design, construction and operation of Nor-Abad wastewater treatment plant, Shiraz industrial Estate company, Iran
- 4- Operation of wastewater treatment plant of Shiraz industrial Estate company, Shiraz, Iran
- 5- Operation of wastewater treatment plant of Abadeh industrial Estate company, Shiraz, Iran
- 6- Design, construction and operation of metal package for Jolai wastewater treatment plant, Tehran, Iran
- 7- Design and construction of metal package for suspended solid removal from sand crash wastewater in Siabisha dam, Iran
- 8- Design and construction of working camp wastewater plant, Rodbar Lorestan (Aligodarz), Iran
- 9- Design and construction of Tehranpars hospital wastewater treatment plant, Tehran, Iran

- 10- Design and construction of Mehr hospital wastewater treatment plant, Tehran, Iran
- 11- Design and construction of Sevom Shaban hospital treatment wastewater plant, Tehran, Iran
- 12- Design and construction of Mofid hospital wastewater treatment plant, Tehran, Iran
- 13- Design and construction of Torfa hospital wastewater treatment plant, Tehran, Iran
- 14- Design and construction of Mahdiya hospital wastewater treatment plant, Tehran, Iran
- 15- Design and construction of Saipa company wastewater treatment plant, Tehran, Iran
- 16- Design and construction of Nikkala company wastewater treatment plant, Tehran, Iran
- 17- Operation of Islamic Azad university, Niyaesh branch wastewater treatment plant, Tehran, Iran
- 18- Operation of National Iranian Gas Company wastewater treatment plant, Tehran, Iran
- 19- Operation of Tehran Oil Refining & Distribution wastewater treatment plant, Tehran, Iran
- 20- Operation of Karaj Locomotive Repair wastewater treatment plant, Tehran, Iran
- 21- Design and construction of water treatment plant, Ilam rural water & sewer company
- 22- Biosorption of mercury by biotechnologic methods, National Petrochemical Company of Iran, Iran
- 23- Environmental impact assessments and inspection of Ilam petrochemical construction
- 24- Environmental impact assessments and inspection of Siya bisha dam construction
- 25- Environmental impact assessments and inspection of Iranian petrochemical companies
- 26- Environmental impact assessments and inspection of Olefin project in Khark petrochemical
- 27- Environmental impact assessments and inspection of Hamadan- Bijar gas transfer line, 2004
- 28- Removal of Arsenic of Sarcheshma copper factory wastewater by physicochemical and biological methods, Kerman, Iran