Vitae

Mahmoud Zarei, Ph.D.

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Publications and presentations:

- 1. 75 papers in international ISI indexed Journals,
- 2. 45 papers in international and national scientific conferences,
- 3. 1 books/book chapters,
- 4. 2 national patents.

Citation acquired from ISI database on 2022/02/02:

Total citation: 3358

H-index=29

Personal Data:

Name	Surname	Date of Birth	Nationality	Sex	Marital Status
Mahmoud	Zarei	1972	Iranian	Male	Married

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		zarei90211@yahoo.com		
(+98)(41)(33393123)	(+98)(41)(33340191)	mzarei@tabrizu.ac.ir		
		mzarei90211@Gmail.com		

Educational Background: (Last One First)

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
Ph.D.	Applied Chemistry	Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran	2009
M.Sc.	Applied Chemistry	Department of Applied Chemistry, emistry Faculty of Chemistry, University of Tabriz, Tabriz, Iran	
B.Sc.	Applied Chemistry	Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran	1996

Title of Post-Graduate Thesis:

The study and optimization of CO₂ absorption process by some of new alkanolamine solutions

Title of Doctorate Thesis:

Investigation of peroxi-coagulation process for electrochemical removal of traces organic dyes from contaminated waters by activated carbon and carbon nanotubes

Teaching Experiences:

Title of Course	Level	D	ates	Name of Institution	
Tiue of Course	Levei	From To		Name of Institution	
Industrial Chemistry 1	BSc	2014	Present	University of Tabriz	
Laboratory of Industrial Chemistry	BSc	2009	Present	University of Tabriz	
Laboratory of Principles of water and wastewater treatment	BSc	2007	Present	University of Tabriz	
Laboratory of General Chemistry	BSc	2007	Present	University of Tabriz	
Chemical Reaction Engineering	MSc	2017	Present	University of Tabriz	
Instrumental Control	MSc	2016	Present	University of Tabriz	
Green chemistry	BSc	2019	Present	University of Tabriz	
processes of Water and Wastewater Treatment	MSc	2019	Present	University of Tabriz	
Advanced processes of Water and Wastewater Treatment	PhD	2020	Present	University of Tabriz	
Seminar	MSc	2018	Present	University of Tabriz	
Laboratory of unit operation	BSc	2019	Present	University of Tabriz	
Identification and characterization of materials	MSc	2019	Present	University of Tabriz	
Chemistry 2	BSc	2013	2014	Tabriz Islamic Art University	
Laboratory of Applied Inorganic Chemistry	MSc	2013	Present	Tabriz Islamic Art University	
Applied Inorganic Chemistry	MSc	2012	Present	Tabriz Islamic Art University	
Water and Wastewater Treatment	BSc	2012	Present	Payame Noor University of Tabriz	
Corrosion	BSc	2012	2013	Payame Noor University of Tabriz	
Principles of Industrial Chemistry Calculations	BSc	2011	2013	Payame Noor University of Tabriz	
Industrial Chemistry 1	BSc	2013	Present	Payame Noor University of Tabriz	
General Chemistry	BSc	2011	2014	Sahand University of Technology	
Analytical Chemistry	BSc	2011	2014	Sahand University of Technology	
Analytical Methods of Inorganic Materials	BSc	2011	2014	Sahand University of Technology	

Title of Course	Level	D	ates	Name of Institution
The of Course	Level	From	To	Name of Institution
Laboratory of General Chemistry BSc		2011	2012	Sahand University of Technology
Membrane processes BSc		2011	2012	Technical and Vocational University
Water and Wastewater Treatment Undergraduate		2010	2018	Technical and Vocational University
Water and Wastewater Treatment BSc		2015	2018	Technical and Vocational University
HSE BSc		2015	2018	Technical and Vocational University
Laboratory of Principles of water and wastewater treatment	Undergraduate	2010	2018	Technical and Vocational University
Laboratory of General Chemistry (1 & 2)	BSc	2001	2004	University of Tehran
Advanced instrumental methods of pollutants analysis	MSc	2014	2015	Tabriz University of Medical Sciences

ADVISOR: Ph.D. and M.Sc. Degrees:

No.	Student's Full Name	Degree	Date	Title of Thesis and University
1	Leila Moradkhannejad	M.Sc.	2009-11	Preparation of nitrogen doped TiO ₂ nanoparticles as a self- cleaning pigment with visible-light photocatalysis activity & investigation of photocatalytic efficiency for treatment of contaminated waters with organic dyes (Advisor), Department of Applied Chemistry, Faculty of Chemistry, Urmia University, Urmia, Iran
2	Saeed Fallah	M.Sc.	2010-12	Bioremediation of dyes with different structures in contaminated waters using macroalga <i>Enteromorpha</i> sp. (Advisor), Department of Plant Biology, Faculty of Natural Science, University of Tabriz, Tabriz, Iran
3	Mahdiee Safarpour	M.Sc.	2010-12	Investigation of the combined photocatalytic oxidation and photoelectro-Fenton processes using TiO ₂ nanoparticles and modified graphite electrode with carbon nanotubes for the treatment of waters contaminated with dyes (Co-Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
4	Hadi Marandizadeh	M.Sc.	2011-12	Preparing of doped titanium nanoparticles sensitive to visible light and its application in the combined photocatalysis – photoelectroFenton process to remove organic dyes under visible light (Co-Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
5	Samaneh Torbati	Ph.D.	2008-12	The investigation of ability of <i>Lemna minor</i> and <i>Nasturtium officinale</i> in remediation of polluted waters by synthetic dyes (Co-Advisor), Department of Plant Biology, Faculty of Natural Science, University of Tabriz, Tabriz, Iran
6	Fateme Vafaei Mamagani	Ph.D.	2008-13	Investigation the ability of biodegradation of organic dyes from contaminated water by <i>Azolla</i> filiculoides and Hydrocotyle vulgaries (Co-Advisor), Department of Plant Biology, Faculty of Natural Science, University of Tabriz, Tabriz, Iran

No.	Student's Full Name	Degree	Date	Title of Thesis and University
7	Afsaneh Azadi Oskooyi	M.Sc.	2011-12	Removal of heavy metals from water by adsorption with inorganic synthetic adsorbents (Supervisor), Department of Applied Chemistry, Faculty of Engineering, Islamic Azad University, Saveh Branch, Iran
8	Amaneh Mohammadnejad	M.Sc.	2011-12	Quantitave and qualitative study of chemical composition of essential oils from some populations of Heracleum persicum fruits and their biological activity (Co-Advisor), Department of Chemistry, Faculty of Basic Science, Azarbaijan Shahid Madani University, Tabriz, Iran
9	Azam Ebrahimi	M.Sc.	2011-12	(Co-Advisor), Department of Chemistry, Faculty of Basic Science, Azarbaijan Shahid Madani University, Tabriz, Iran
10	Adel Rahnomon	M.Sc.	2012-13	Immobilization of iron oxide nanoparticles on Montmorillonit nanoparticles and using the prepared nano composite to remove a metal complex dye from aqueous solution (Co-Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
11	Omkolsoom Zahedi Hesar	M.Sc.	2013-14	Removal of reactive organic dyes from contaminated waters by synthesized Zeolites and optimization of the process using response surface methodology (Supervisor), Department of Chemical engineering, Faculty of Engineering, Islamic Azad University, Ahar Branch, Iran
12	Leila Khadir	M.Sc.	2013-14	The use of modified zeolites for removal of the organic dyes from contaminated waters and modeling of the process by artificial neural network (Supervisor), Department of Chemical engineering, Faculty of Engineering, Islamic Azad University, Ahar Branch, Iran
13	Ramin Dehgani	M.Sc.	2013-14	Photocatalytic decolorization of a dyestuff solution by a polyoxometalate containing tungsten metal (Co-Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
14	Hasan Azizi Nahand	M.Sc.	2013-14	Simultaneous removal of arsenic and bacteria from water using metal-treated chitosan based nanosorbents (Co-Supervisor), Department of Chemistry, Faculty of Science, University of Maragheh, Maragheh, Iran
15	Arezosadat Sajadi	M.Sc.	2013-14	Archaeometric Analysis of a Leather Shoe Belonging to Tapeh Asharf of Isfahan and the Study of Its Manufacturing Technology (Supervisor), Faculty of Applied Arts, Tabriz Islamic Art University, Tabriz, Iran
16	Sommaye Mohammadi Amiri	M.Sc.	2013-15	Archaeometric Analysis of carved patterns earthenware enamel, amol,s style (Co-Supervisor), Faculty of Applied Arts, Tabriz Islamic Art University, Tabriz, Iran
17	Behnam Beigzadeh	M.Sc.	2012-13	Biosynthesis and structural characteristics of metal nanoparticles by plant extracts (Co-Advisor), Azarbaijan Shahid Madani University, Tabriz, Iran
18	Zeynab Yaghoubi	M.Sc.	2013-14	Immobilization of phosphomolybdic acid on electrode and the removal of a dyestuff from contaminated solution by photoelectrocatalytic system (Co-Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
19	Hamid Reza Irani	M.Sc.	2015-16	The Studies of Making Technology TwoLeather Footwear Samplesof TheSalt MenofChehrabadZanjan: An Archaeometric Analysis (Co-Supervisor), Faculty of Applied Arts, Tabriz Islamic Art University, Tabriz, Iran
20	Maryam Khademi	M.Sc.	2013-14	??? (Co-Advisor), Faculty of Agriculture, University of Tabriz, Tabriz, Iran
21	Mahdi Kazemzadeh	M.Sc.	2013-14	Removal of organic dyes from wastewater with using graphene oxide nanosheets synthesized from graphite powder (Advisor), Department of Chemical engineering, Faculty of Engineering, Islamic Azad University, Ahar Branch, Iran

No.	Student's Full Name	Degree	Date	Title of Thesis and University
22	Jalal Hassanzadeh Sefidan	M.Sc.	2013-14	The use of natural clinoptolite zeolite for some heavy metal removal from contaminated water by adsorption method (Advisor), Department of Applied Chemistry, Faculty of Chemistry, Urmia University, Urmia, Iran
23	Ayoob Sobhani	Ph.D.	2015-17	Study of physiological effects and fate of phenanthrene and pyrene in wheat (Triticum aestivum L.) (Co-Advisor), Department of Plant Biology, Faculty of Natural Science, University of Tabriz, Tabriz, Iran
24	Mahnaz Afsharnia	Ph.D.	2015-19	Using of different bioremediation senarios in remediation of Tabriz-refinery oil polluted soils and monitorig of bioremediation by enzymatic and biological indices (Co-Advisor), Department of Soil Science, Faculty of Agriculture, University of Tabriz, Tabriz, Iran
25	Ramin Nasiri	Ph.D.	2016-18	Three-dimension graphene nanocomposites containing iron oxide nanoparticles: synthesis, characterization and some application (Co-Advisor), Department of Organic Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
26	Farzaneh Beheshti Nahand	M.Sc.	2017-18	Investigation of three-dimensional graphene as cathode electrode for the electrochemical remval of pharmaceuticals from contaminated water (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
27	Sanaz Adalatzadeh Agdam	Ph.D.	2016- ?	Proteomic analysis of foreign and landraces of Fennel (Foeniculum vulgare) under salt stress and exogenous salicylic acid (Advisor), Department of Plant Biotechnology and Breeding, Faculty of Agriculture, University of Tabriz, Tabriz, Iran
28	Parisa Meshinchi	M.Sc.	2017-18	Investigation of antibiotic materials removal from aqueous by using of the absorbent systems containing nanoclay (Advisor), Department of Process Engineering, Faculty of Chemical and petroleum Engineering, University of Tabriz, Tabriz, Iran
29	Laleh Samaei	M.Sc.	2017-18	Synthesis of ZnFe-Cl nanolayered double hydroxide and its application in the sonocatalytic process to remove colored pollutants (Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
30	Mahnaz Alizadeh	M.Sc.	2018-19	Synthesis of different morphologies of metal nanoparticles and studying of their catalytically properties by optical method (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
31	Somaieh Aamali	M.Sc.	2018-19	Investigation of Fe@Fe2O3/three dimensional graphene as composite cathode electrode for the electrochemical removal of organic compounds from contaminated water (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
32	Maryam Zarenejhad	M.Sc.	2018-20	Investigation of functionalized magnetic graphene oxide by different ligands to removal of heavy metals from contaminated waters (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
33	Masood Ebratkhahan	Ph.D.	2018- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
34	Mahsa Haj Ahmadi	Ph.D.	2018- ?	Comparison of various Fe-based heterogeneous catalyst's efficiency in electro-Fenton process for treatment of pharmaceutical organic pollutants from contaminated waters (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran

No.	Student's Full Name	Degree	Date	Title of Thesis and University
35	Tala Babaei	M.Sc.	2018-19	Electrochemical elimination of phenazopyridine drug waste by using mixed metal oxide anode electrodes and carbon cathode from contaminated water (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
36	Abolfazl Ahmadi Somee	M.Sc.	2018- 2020	Synthesis of Iron (II) doped carbon aerogel and investigation of its electrochemical ability for removal of Diazinon from contaminated water (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
37	Saeideh Jodeiri Sabooni	M.Sc.	2018-19	Preparation and study of zinc oxid - carbon quantum dots nanoparticles and evaluation of their photocatalyst behaviors (Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
38	Sajad Lotfi	M.Sc.	2018-19	Synthesis of Fe3O4 magnetic nanoparticles and study the effect of polymer coating on heavy metals removal from wastewater (Advisor), Department of Physics, Faculty of Physics, University of Tabriz, Tabriz, Iran
39	Tala Babaei	Ph.D.	2019- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
40	Aliyeh Hasanzadeh	Ph.D.	2017- ?	??? (Advisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
41	Ramin Nourouzi	M.Sc.	2020- 2021	Electrochemical removal of Fluoxetine as a pharmaceutical contaminant from contaminated water by using mixed metal oxide anode electrodes and carbon cathode (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
42	Salar Maleki	M.Sc.	2020- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
43	Tala Nafat Azari	M.Sc.	2020- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
44	Elham Asgari	M.Sc.	2020- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
45	Sina Mohammadi	M.Sc.	2020- ?	??? (Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran
46	Somaieh Alipour	M.Sc.	2018-20	Synthesis and optimization of gelatin-meta acrylic acid biodegradable porous super absorbent hydrogels and its review for removal medicinal pollutants from wastewater (Co-Supervisor), Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran

Research Activities (Supported by National and Industrial Research Grants):

No.	Title of Project	D	ates	Project
110.	Title of Froject	From	To	Supporter
1	Removal of phenol from the wastewater of olefin unite of Tabriz petrochemical company using combined photoelectron Fenton-photocatalysis as an advanced oxidation process عند فنل از پساب خروجی واحد اولفین شرکت پتروشیمی تبریز با استفاده از فرایند ترکیبی اکسایش پیشرفته فتوالکتروفنتون-فتوکاتالیز (همکار طرح)	(2010) 1849	(2011) 189•	Petrochemical Research & Technology Company شرکت پژوهش و فناوری پتروشیمی
2	Application of combined advanced oxidation processes based on carbon nanotubes and zinc oxide nanoparticles for treatment of contaminated waters by dyes: Modeling and optimization of process using artificial neural networks and response surface methodology methodology chief by its include a contaminated waters by dyes: Modeling and optimization of process using artificial neural networks and response surface methodology chief by its included and provided	(2010) مهرماه ۱۳۸۹	(2011) مهرماه ۱۳۹۰	Iran Science Elites Federation (ISEF) اعتبار پژوهشی بنیاد ملی نخبگان ویژه استادیاران جوان عضو بنیاد
3	Electrochemical-photocatalytic treatment of organic dye aqueous solutions and investigation of the produced intermediates using instrumental analytical methods معند الکتروشیمیایی- فتوکاتالیزی آبهای آلوده به مواد آلی رنگزا و بررسی حدواسطهای حاصل با استفاده از روشهای تجزیه دستگاهی(همکار طرح)	(2010) آذرماه ۱۳۸۹	(2011) اردیبهشت ۱۳۹۰	University of Maragheh حوزه معاونت پژوهشی دانشگاه مراغه
4	Application of the photoelectro-Fenton process for electrochemical treatment of contaminated waters by organic dyes using carbon cloth cathode: Optimization of process using response surface methodology استفاده از فرآیند فتوالکتروفنتون جهت تصفیه الکتروشیمیایی پسابهای حاوی مواد رنگزای آلی با استفاده از کاتد کربن پارچهای: بهینه سازی فرآیند با استفاده از روش رویه پاسخ(همکار طرح)	(2011) آذر ماه ۱۳۹۰	(2012) آذر ماه ۱۳۹۱	Islamic Azad University Miyaneh Branch حوزه معاونت پژوهشی دانشگاه اَزاد میانه

Publications:

A: Books

No.	Title	Type of Work		Publisher	Year	Authors
110.		Translation	Compilation	r ublisher	1 cai	Authors
1	Environmental Applications of Activated Carbon and Carbon Nanotubes; Chapter 1 in Activated Carbon: Classifications, Properties and Applications		*	NOVA Science Publisher, Inc. USA	2011, second quarter	A. R. Khataee, S. Aber, M. Zarei, M. Sheydaei

Publications:

B: Papers

No	Title	Journal's Name	Date	Volume Page No.	Authors
1	Absorption of carbon dioxide into I) aqueous solutions of N,N-dimethylethanolamine II) aqueous blends of mono and diethanolamine with N,N-dimethylethanolamine	Chem. Biochem. Eng. Q. (ISI)	2005	19 (3) 297-302	N. Daneshvar, D. Salari, H. Zamzami, M. Zarei , S. Aber
2	بررسی فرآیند جذب کربن دی اکسید توسط محلولهای آمینی تقویت شده با مواد افزودنی	ماهنامه تخصصی علمی – ترویجی فرآیند نو	1840	خرداد – تیر شماره ۱۴	ن. دانشور، م. زارعی
3	فراً یند اکسایش آب فوق بحرانی و کاربرد آن در تصفیه پسابهای صنعتی	مجله مهندسی شیمی ایران	1847	6 (33) 71-82	ن. دانشور، س. عابر، م.س. سیددراجی، م. زارعی، م. ح. رسولی فرد
4	Electrochemical treatment of dye solution containing C.I. Basic Yellow 2 by the peroxi-coagulation method and modeling of experimental results by artificial neural networks	Journal of Electroanalytical Chemistry (ISI)	2009	629 117–125	D. Salari, A. Niaei, A.R. Khataee, M. Zarei
5	Peroxi-coagulation degradation of C.I. Basic Yellow 2 based on carbon-PTFE and carbon nanotube-PTFE electrodes as cathode	Electrochimica Acta (ISI)	2009	54 6651-6660	M. Zarei, D. Salari, A. Niaei, A.R. Khataee
6	Application of response surface methodology for optimization of peroxi-coagulation of textile dye solution using carbon nanotube-PTFE cathode	Journal of Hazardous Material (ISI)	2010	173 544-551	M. Zarei, A. Niaei, D. Salari, A.R. Khataee
7	Application of microalgae Chlamydomonas sp. for biosorptive removal of a textile dye from contaminated water: modeling by neural network	Environmental Technology (ISI)	2009	30 1615-1623	A.R. Khataee, M. Zarei , M. Pourhassan
8	Removal of four dyes from aqueous medium by the peroxi-coagulation method using carbon nanotube- PTFE cathode and neural network modeling	Journal of Electroanalytical Chemistry (ISI)	2010	639 167–174	M. Zarei, D. Salari, A. Niaei, A.R. Khataee
9	Development of Artificial Neural Network Model for Bioremediation of Malachite Green by Three Microalgae	Clean-Soil, Air, Water (ISI)	2010	38 96 – 103	A.R. Khataee, M. Zarei, M. Pourhassan
10	Biological Treatment of Dye Solution by Macroalgae Chara sp.: Effect of Operational Parameters, Intermediates Identification and Artificial Neural Network Modeling	Bioresource Technology (ISI)	2009	101 2252-2258	A.R. Khataee, G. Dehghan, A. Ebadi, M. Zarei, M. Pourhassan
11	Application of response surface methodology for optimization of azo dye removal by oxalate catalyzed photoelectro-Fenton process using carbon nanotube-PTFE cathode	Desalination (ISI)	2010	258 112-119	A.R. Khataee, M. Zarei , L. Moradkhannejhad
12	Optimization of photocatalytic treatment of dye solution on supported TiO ₂ nanoparticles by central composite design: Intermediates identification	Journal of Hazardous Material (ISI)	2010	181 886-897	A. R. Khataee, M. Fathinia, S. Aber, M. Zarei
13	Neural network modeling of biotreatment of triphenylmethane dye solution by Cladophora sp.	Chemical Engineering Research and Design (ISI)	2011	89 172-178	A.R. Khataee, G. Dehghan, M. Zarei , A. Ebadi, M. Pourhassan

No	Title	Journal's Name	Date	Volume Page No.	Authors
14	Photoelectro-Fenton combined with photocatalytic process for degradation of an azo dye using supported TiO ₂ nanoparticles and carbon nanotube cathode: neural network modeling	Electrochimica Acta (ISI)	2010	55 7259-7265	M. Zarei, A.R. Khataee, R. Ordikhani-Seyedlara, M. Fathinia
15	Electrochemical Treatment of Dye Solution by Oxalate Catalyzed Electro-Fenton Process Using Carbon Nanotube-PTFE Cathode: Optimization and Modeling by Central Composite Design	Clean-Soil, Air, Water (ISI)	2011	39 482-490	Ali R. Khataee, M. Zarei , Amir R. Khataee
16	Photocatalytic treatment of a dye solution using immobilized TiO ₂ nanoparticles combined with electro-Fenton process: Optimization of operational parameters	Journal of Electroanalytical Chemistry (ISI)	2010	648 143-150	A.R. Khataee, M. Zarei, S. Khameneh Asl
17	Biotreatment of a triphenylmethane dye solution using a Xanthophyta algae: modeling of key factors by neural network	Journal of the Taiwan Institute of Chemical Engineers (ISI)	2011	42 380-386	A.R. Khataee, M. Zarei, G. Dehghan, A. Ebadi, M. Pourhassan
18	Photocatalytic degradation of an anthraquinone dye on immobilized TiO ₂ nanoparticles in a rectangular reactor: destruction pathway and response surface approach	Desalination (ISI)	2011	268 126–133	A.R. Khataee, M. Zarei , M. Fathinia, M. Khobnasab Jafari
19	Comparative photocatalytic degradation of two dyes on immobilized TiO ₂ nanoparticles: effect of dye molecular structure and response surface approach	Journal of Molecular Catalysis A: Chemical (ISI)	2010	333 73–84	M. Fathinia, A. R. Khataee, M. Zarei , S. Aber
20	Heterogeneous photocatalysis of a dye solution using supported TiO ₂ nanoparticles combined with homogeneous photoelectrochemical process: Molecular degradation products	Molecular Catalysis A: Chemical (ISI)	2011	338 84-91	A.R. Khataee, M. Zarei , R. Ordikhani- Seyedlara
21	Photocatalysis of a dye solution using immobilized ZnO nanoparticles combined with hotoelectrochemical process	Desalination (ISI)	2011	273 453-460	A.R. Khataee, M. Zarei
22	Effect of carbon nanotubes and activated carbon addition to the blends of monoethanolamine and triethanolamine on CO ₂ absorption at low partial pressures	International Journal of Energy and Environmental Engineering	2010	1 49-55	S. Aber, M. Zarei , A. Niaei, H. Joshani Koshky
23	Photoelectrocatalytic decolorization of diazo dye by a combination of zinc oxide nanophotocatalyst and carbon nanotube based cathode: determination of the degradation products	Desalination (ISI)	2011	278 117–125	A.R. Khataee, M. Zarei
24	Electrochemical generation of H_2O_2 using immobilized carbon nanotubes on graphite electrode fed with air: investigation of operational parameters	Journal of Electroanalytical Chemistry (ISI)	2011	659 63-68	A.R. Khataee, M. Safarpour, M. Zarei , S. Aber
25	Decolorization of C.I. Basic Yellow 28 solution using supported ZnO nanoparticles coupled with photoelectro-Fenton process	Journal of Electroanalytical Chemistry (ISI)	2011	659 107-112	M. Iranifam, M. Zarei, A.R. Khataee
26	Chemometrics approach for determination and optimization of simultaneous photooxidative decolourization of a mixture of three textile dyes	Environmental Technology (ISI)	2012	33 2305– 2317	A.R. Khataee, A. Naseri, M. Zarei , M. Safarpour , L. Moradkhanne jhad

No	Title	Journal's Name	Date	Volume Page No.	Authors
27	Photoelectro-Fenton/nanophotocatalysis decolorization of three textile dyes mixture: response surface modeling and multivariate calibration procedure for simultaneous determination	Journal of Electroanalytical Chemistry (ISI)	2012	672 53-62	A.R. Khataee, M. Safarpour, A. Naseri, M. Zarei
28	Phytoremediation potential of duckweed (Lemna minor L.) in degradation of C.I. Acid Blue 92: artificial neural network modeling	Ecotoxicology and Environmental Safety (ISI)	2012	80 291-298	A.R. Khataee, A. Movafeghi, S. Torbati, S.Y. Salehi Lisar, M. Zarei
29	Combined heterogeneous and homogeneous photodegradation of a dye using immobilized TiO ₂ nanophotocatalyst and modified graphite electrode with carbon nanotubes	Journal of Molecular Catalysis A: Chemical (ISI)	2012	363–364 58–68	A.R. Khataee, M. Safarpour, M. Zarei , S. Aber
30	Potential of the aquatic fern Azolla filiculoides in biodegradation of an azo dye: modeling of experimental results by artificial neural networks	International Journal of Phytoremediation (ISI)	2013	15 729–742	A.R. Khataee, A. Movafeghi, F. Vafaei, S.Y. Salehi Lisar, M. Zarei
31	Nitrogen doping of commercial TiO ₂ nanoparticles for enhanced photocatalytic degradation of dye under visible light: central composite design approach	Advanced Chemistry Letters	2013	1 24-31	A.R. Khataee, M. Zarei, L. Moradkhannejhad, S. Nourie, B. Vahid
32	Bioremoval of C.I. Basic Red 46 as an azo dye from contaminated water by Lemna minor L.: Modeling of key factor by neural network	Environmental Progress & Sustainable Energy (ISI)	2013	32 (4) 1082-1089	A. Movafeghi, A. R. Khataee, S. Torbati, M. Zarei, S.Y. Salehi Lisar
33	Combination of nanophotocatalysis with electro- Fenton-like process in the removal of phenol from aqueous solution: GC analysis and response surface approach	International Journal of Industrial Chemistry	2012	3 27	M. Zarei , A. R. Khataee, M. Fathinai, F. Seyyednajafi, H. Ranjbar
34	Biological degradation of an azo textile dye using the green macroalga Enteromorpha sp.	Chemistry and Ecology (ISI)	2013	29 221-233	A.R. Khataee, G. Dehghan, M. Zarei , S. Fallah, G.R. Niaei, I. Atazadeh
35	Optimization of oxalate catalyzed photoelectro-Fenton process under visible light for removal of Reactive Red 195 using carbon paper cathode	Research on Chemical Intermediates (ISI)	2013	39 3355– 3369	N. Djafarzadeh, M. Zarei , B. Behjati, A. R. Khataee
36	Bioremoval of an azo dye by Azolla filiculoides: Study of growth, photosynthetic pigments and antioxidant enzymes status	International Biodeterioration & Biodegradation (ISI)	2012	75 194-200	F. Vafaei, A.R. Khataee, A. Movafeghi, S.Y. Salehi Lisar, M. Zarei
37	Treatment of an azo dye by citrate catalyzed photoelectro-Fenton process under visible light using carbon nanotube-polytetrafluoroethylene cathode	Current Nanoscience (ISI)	2013	9 387-393	A. Khataee, H. Marandizadeh, M. Zarei, S. Aber, B. Vahid, Y. Hanifehpour, S. W. Joo
38	Potential of Hydrocotyle vulgaris for phytoremediation of a textile dye: inducing antioxidant response in roots and leaves	Ecotoxicology and Environmental Safety (ISI)	2013	93 128-134	F. Vafaei, A. Movafeghi, A.R. Khataee, M. Zarei ; S. Y. Salehi Lisar

No	Title	Journal's Name	Date	Volume Page No.	Authors
39	Combination of photocatalytic and photoelectro- Fenton/citrate processes for dye degradation using immobilized N-doped TiO ₂ nanoparticles and a cathode with carbon nanotubes: central composite design optimization	Chemical Engineering and Processing: Process Intensification (ISI)	2013	73 103–110	A. Khataee, H. Marandizadeh, B. Vahid, M. Zarei , S. W. Joo
40	Modeling and optimization of photocatalytic/photoassisted-electro-Fenton like degradation of phenol using a neural network coupled with genetic algorithm	Journal of Industrial and Engineering Chemistry (ISI)	2014	20 1852– 1860	A.R. Khataee, M. Fathinia, M. Zarei , B. Izadkhah, S. W. Joo
41	As(III) adsorption and antimicrobial properties of Cuchitosan/alumina nanocomposite	Chemical Engineering Journal (ISI)	2015	273 610-621	S. Zavareh, M. Zarei, F. Darvishi, H. Azizi
42	Comparison of two methods for selegiline determination: a flow-injection chemiluminescence method using cadmium sulfide quantum dots and corona discharge ion mobility spectrometry	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (ISI)	2016	153 273-280	A.R. Khataee, R. Lotfi, A. Hasanzadeh, M. Iranifam, M. Zarei, S. W. Joo
43	Phosphomolybdic acid immobilized on graphite as an environmental photoelectrocatalyst	Chemosphere (ISI)	2016	161 422-428	S. Aber, Z. Yaghoubi, M. Zarei
44	بازشناخت فناوری مصنوعات چرمی متعلق به دوره هخامنشی، مکشوفه از معدن نمک چهرآباد زنجان	پژوهه باستان سنجی (علمی – پژوهشی)	1794	سال اول، شماره دوم، ۱۵–۲۶	ح.ر. ایرانی، م. زارعی، ا. عالی، و. عسکرپور، ع. ر. کوچکزایی
45	Removal of acid red 88 from wastewater by adsorption on agrobased waste material, A case study of Iranian golden Sesamum indicum hull	Environmental Health Engineering and Management Journal (ISC)	2017	4 195-201	M. Zarei, S. Pezhhanfar, A. Ahmadi Someh
46	Mitoxantrone removal by electrochemical method: A comparison of homogenous and heterogenous catalytic reactions	Environmental Health Engineering and Management Journal (ISC)	2017	4 185-193	A. Jafarizad, M. Rostamizadeh, M. Zarei, S. Gharibian
47	Photo-assisted electrochemical abatement of trifluralin using a cathode containing a C60-carbon nanotubes composite	Chemosphere (ISI)	2018	199 510-523	A. Hasanzadeh, A.R. Khataee, M. Zarei , S. W. Joo
48	Synthesis of magnetic 3D grapheme detected with CaCO ₃ for anionic azo dye removal from aqueous solution: kinetic and RSM modeling approach	Chemical Engineering Research and Design (ISI)	2018	136 795-805	N. Arsalani, R. Nasiri, M. Zarei
49	Removal of Direct Blue 129 from Aqueous Medium Using Surfactant-Modified Zeolite: A Neural Network Modeling	Environmental Health Engineering and Management Journal (ISC)	2018	5(2) 101-113	M. Zarei , N. Djafarzadeh, L. Khadir
50	استفاده از گیاهان اگروپایرون(Agropyron arundinacea L.) و تال فسکیو (Festuca L.) تلقیح شده باFestuca.) کنسرسیوم باکتریائی و قارچ پالائی شبه میکوریز درگیاه خاکهای آلوده نفتی	دانش کشاورزی و تولید پایدار (ISC)	1398	29 (2) 285-300	مهناز افشارنیا، محمدرضا ساریخانی، محمود زارعی
51	جداسازی باکتریهای تجزیه کننده نفت از خاکهای آلوده نفتی پالایشگاه و پتروشیمی تبریز و شناسایی باکتریهای کاراَمد	دانش آب و خاک(ISC)	1398	?	مهناز افشارنیا، محمدرضا ساریخانی، محمود زارعی
52	بررسی کارایی شبکه عصبی مصنوعی در مدلسازی فرایند حذف مالاشیت سبز با استفاده از پسماند چای و بررسی ایزوترم	مجله آب و فاضلاب (ISC)	1398	30 (6) 51-62	محمود زارعی؛ سابینا فضلی؛ نرجس نجاری؛ سخاء پژهان فر؛ ابوالفضل احمدی صومعه

No	Title	Journal's Name	Date	Volume Page No.	Authors
53	Bioremediation of textile dye Direct Blue 129, by green alga Chlorella vulgaris Beijerinck and cyanobacter Spirulina (Arthrospira) platensis Gomont, and influence of dye on their physiological and biochemical indices	زیست شناسی گیاهی ایران (ISC)	1398	11 (4)	64
54	Removal of nalidixic acid from aqueous solutions using a cathode containing three-dimensional graphene	Journal of Water Process Engineering (ISI)	2019	32 100978	Mahmoud Zarei, Farzaneh Beheshti Nahand, Alireza Khataee, Aliyeh Hasanzadeh
55	Two-electron oxygen reduction on fullerene C60-carbon nanotubes covalent hybrid as a metal-free electrocatalyst	Scientific reports (ISI)	2019	9 13780	Aliyeh Hasanzadeh, Alireza Khataee, Mahmoud Zarei , Yifeng Zhang
56	Removal of Phenazopyridine from wastewater by merging biological and electrochemical methods via Azolla filiculoides and electro-Fenton process	Journal of environmental management (ISI)	2020	254 109802	AM Gholizadeh, M Zarei, M Ebratkhahan, A Hasanzadeh, F Vafaei
57	Simultaneous elimination of diethyl phthalate, butylated hydroxy toluene and butylated hydroxy anisole from aqueous medium by an adsorption process on pretreated waste material; investigation of isotherms and neural network modeling	Journal of the Iranian Chemical Society (ISI)	2020	17 1377-1386	MA Farajzadeh, S Pezhhanfar, M Zarei , A Mohebbi
58	Comparison of NiCo2O4, CoNiAl-LDH, and CoNiAl-LDH@ NiCo2O4 performances as ORR catalysts in MFC cathode	Renewable Energy (ISI)	2020	154 1263-1271	RT Khajeh, S Aber, M Zarei
59	Neural network, isotherm and kinetic study for wastewater treatment using Populus alba's pruned material	Iranian Journal of Chemistry and Chemical Engineering (IJCCE) (ISI)	2020	In press	Mahmoud Zarei, Sakha Pezhhanfar, Tohid Shekaari teymourloue, Mahdi Khalilzadeh
60	Eu-doped ZnO nanoparticles: Sonochemical synthesis, characterization, and sonocatalytic application	Ultrasonics Sonochemistry (ISI)	2020	67 (102822)	A.R. Khataee, A. Karimi, M. Zarei , S. W. Joo
61	Electrochemical advanced oxidation process of Phenazopyridine drug waste using different Ti-based IrO ₂ -Ta ₂ O ₅ anodes	Journal of the Taiwan Institute of Chemical Engineers (ISI)	2020	117 103-111	T. Babaei, M. Zarei , M.G. Hosseini, M.M. Hosseini
62	Neural network, isotherm and kinetic study for wastewater treatment using Populus alba's pruned material	Iranian journal of chemistry and chemical engineering (ISI)	2020	In press	Mahmoud Zarei, Sakha Pezhhanfar, Tohid Shekaari teymourloue, Mahdi Khalilzadeh
63	Phenazopyridine degradation by electro-Fenton process with magnetite nanoparticles-activated carbon cathode, artificial neural networks modeling	Journal of Environmental Chemical Engineering (ISI)	2021	9 (1) 104999	A.M. Gholizadeh, M. Zarei , M. Ebratkhahan, A. Hasanzadeh
64	Synthesis and study of functionalized magnetic graphene oxide for Pb ²⁺ removal from wastewater	Environmental Technology & Innovation (ISI)	2021	22 101384	M. Zarenezhad, M. Zarei, M. Ebratkhahan, M. Hosseinzadeh
65	Preparation of Fe@ Fe ₂ O ₃ /3D graphene composite cathode for electrochemical removal of sulfasalazine	Chemosphere (ISI)	2021	273 128581	S. Amali, M. Zarei , M. Ebratkhahan, A. Khataee
66	Introducing an effective iron-based catalyst for heterogeneous electro-Fenton removal of Gemcitabine using three-dimensional graphene as cathode	Journal of Industrial and Engineering Chemistry (ISI)	2021	96 (25) 254-268	M. Hajiahmadi, M. Zarei , A. Khataee

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67	Synergy of production of value-added bioplastic, astaxanthin and phycobilin co-products and Direct Green 6 textile dye remediation in Spirulina platensis	Chemosphere (ISI)	2021	280 130920	Zahra Moradi, Maryam Madadkar Haghjou, Mahmoud Zarei , Louise Colville, Ali Raza
68	Removal of Neutral Red Dye via Electro-Fenton Process: A Response Surface Methodology Modeling	Electrocatalysis (ISI)	2021	12 579–594	Masoud Ebratkhahan, Samin Naghash Hamed, Mahmoud Zarei, Abbas Jafarizad, Mohammad Rostamizadeh
69	Introduction of maize cob and husk for wastewater treatment; evaluation of isotherms and artificial neural network modeling	journal of the iranian chemical society (ISI)	2021	In press	Sakha Pezhhanfar, Mahmoud Zarei , Tohid Shekaari teymourloue
70	Efficient Pb (II) removal from wastewater by TEG coated Fe ₃ O ₄ ferrofluid	Journal of water and environmental nanotechnology (ISC)	2021	6 (2) 109-120	Sajjad Lotfi, Bagher Aslibeiki, Mahmoud Zarei
71	Synthesis of different morphologies of metal and metal oxide nanoparticles and investigation of their catalytic properties by optical methods	Journal of Molecular Structure (ISI)	2021	1244 130943	Mahnaz Alizadeh, Mahmoud Zarei , Masoud Ebratkhahan, Mohammad Amjadi
72	Facile synthesis of iron (II) doped carbonaceous aerogel as a three-dimensional cathode and its excellent performance in electro-Fenton degradation of ceftazidime from water solution	Separation and Purification Technology (ISI)	2021	278 119559	Abolfazl Ahmadi, Mahmoud Zarei , Aydin Hassani, Masoud Ebratkhahan, Ali Olad
73	An effective natural mineral-catalyzed heterogeneous electro-Fenton method for degradation of an antineoplastic drug: modeling by a neural network	Chemosphere (ISI)	2022	291 132810	M. Hajiahmadi, M. Zarei , A. Khataee
74	Synthesis and characterization of magnetic Fe3O4@SiO2-MIL-53(Fe) metal-organic framework and its application for efficient removal of arsenate from surface and groundwater	Journal of Environmental Chemical Engineering (ISI)	2022	10 107144	Bahman Abdollahi, Darioush Salari, Mahmoud Zarei
75	Electrochemical removal of fluoxetine via three mixed metal oxide anodes and carbonaceous cathodes from contaminated water	Environmental Research (ISI)	2022	207 112641	Ramin Nourozi, Mahmoud Zarei, Alireza Khataee, Masoud Ebratkhahan, Paria Rostamzadeh

Research Activities:

Title of Project	Place of Work	Dates	
Thic of Project	Trace of Work	From	To

Research Interests:

No	Research Interest
1	Water and wastewater treatment
2	Environmental Protection and Remediation
3	Gas Absorption * Absorption of Carbon Dioxide into Aqueous Solutions of Alkanolamines *Modeling of Gas Absorption Processes Using Artificial Neural Networks (ANN)
4	*Electrochemical Processes of water treatment *Electro-Fenton process *Peroxi-coagulation process *Modeling of Electrochemical Processes Using Artificial Neural Networks (ANN) *Optimization of Electrochemical Processes Using Response Surface Design Methodology (RSM)

Papers Presented at National and International Scientific Assemblies:

No	Title	Title and Place of Assembly	Date	Authors
1	جذب کربن دی اکسید به: ۱- محلولهای آبی N،N - دی متیل اتانول آمین و N،N - اتانول آمین و N،N - دی متیل اتانول آمین.	ششمین کنگره ملی مهندسی شیمی ایران، دانشگاه صنعتی اصفهان	اردیبهشت ۱۳۸۰	ن. دانشور، د. سالاری، ح. زمزمی، م. زارعی
2	Application of artificial neural networks for modeling of the absorption of carbon dioxide into aqueous blends of Mono and Diethanolamine with N, N-dimethylethanolamine	The 5th International Chemical Engineering Congress and Exhibition, Kish Island	2 - 5 January 2008	N. Daneshvar, M. Zarei
3	مطالعه فرآیند جذب کربن دی اکسید توسط مخلوط مونواتانول آمین و تری اتانول آمین در حضور نانولوله های کربنی	دومین کنفرانس ملی روز جهانی محبط زیست، دانشگاه تهران	۲۰ و ۲۱ خرداد ۱۳۸۷	س. عابر، ح. جوشنی کشکی، م. زارعی
4	The efficiency comparison of carbon nanotube and activated carbon added to the blend of alkanolamines in CO ₂ absorption process	دوازدهمین کنگره ملی مهندسی شیمی ایران، دانشگاه صنعتی سهند	۲۹ مهر تا ۲ آبان ۱۳۸۷	S. Aber, A.Niaei, H. Joshani Koshky, M. Zarei
5	Study of carbon dioxide absorption process by mixtures of monoethanolamine (MEA) and triethanolamine (TEA) in the presence of carbon nanotubes (CNT)	2nd International Congress on Nanoscience and Nanotechnology, University of Tabriz	28-30 October 2008	S. Aber, H. Joshani Koshky, M. Zarei
6	Optimization of C.I. Basic Yellow 2 removals by peroxi-coagulation process using carbon nanotube-PTFE cathode with response surface methodology	The 6th International Chemical Engineering Congress and Exhibition (IChEC 2009), Kish Island	16 - 20 November 2009	M. Zarei, D. Salari, A. Niaei, A.R. Khataee
7	استفاده از الکترود کاتد نانولولههای کربنی برای تصفیه الکتروشیمیایی ماده رنگزای زرد بازی ۲ با روش پراکسی کوآگولاسیون	ششمین همایش دانشجویی فناوری نانو، دانشگاه علوم پزشکی و خدمات بهداشتی درمانی شهید بهشتی	۲۵ تا ۲۷ آذر ۱۳۸۸	محمود زارعی، داریوش سالاری، علیقلی نیائی، علیرضا ختائی
8	Electrochemical Destruction of C.I. Basic Yellow 2 for Wastewater Treatment Using a Carbon nanotube – PTFE O2-Fed Cathode	the 3rd Conference on Nanostructures (NS ₂₀₁₀), Kish Island	10-12, March 2010	M. Zarei, D. Salari, A. Niaei, A. Khataee

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9	Application of response surface methodology for optimization of photocatalytic treatment of a dye solution using immobilized TiO ₂ nanoparticles combined with photoelectron-Fenton process	6 th EFCATS summer school, Izmir, Turkey	13-19, September 2010	S. Khameneh Asl, M. Zarei, A.R. Khataee
10	Preparation of nitrogen doped commercial TiO ₂ nanoparticles: investigation of photocatalytic efficiency for treatment of contaminated water with organic dyes	Regional Chemistry Congress, Islamic Azad University Miyaneh Branch	March 3, 2011	A.R. Khataee, M. Zarei , S. Nourie, L. Moradkhannejhad
11	Immobilization of carbon nanotubes on graphite electrode for electrochemical generation of H ₂ O ₂	15 th Iranian Chemistry Congress (ICC 2011), Bu- Ali Sina University, Hamadan	4-5, September 2011	A.R. Khataee, M. Safarpour, M. Zarei , S. Aber
12	Using central composite design to optimize the degradation of Acid Yellow 36 by Photoelectro-Fenton combined with photocatalytic process	15 th Iranian Chemistry Congress (ICC 2011), Bu- Ali Sina University, Hamadan	4-5, September 2011	A.R. Khataee, M. Safarpour, M. Zarei , S. Aber
13	Removal of mixture of three textile dyes fromaqueous solution by photoelectrocatalytic process and their simultaneous determination using multivariate calibration methods	3 rd Iranian Biennial Seminar of Chemometrics, University of Tabriz	9-10 November 2011	A.R. Khataee a, M. Safarpour, A. Naseri, M. Zarei, S. Aber
14	Application of carbon nanotube-PTFE cathode for electrochemical treatment of a reactive dye solution in a flow plant	4th International Conference on Nanostructures (ICNS4), Kish Island	12-14 March, 2012	A.R. Khataee, B. Vahid, B. Behjati, M. Safarpour, M. Zarei
15	تهیه نانوذرات دی اکسید تیتانیم دوپه شده با نیتروژن و بررسی کاراًئی اَن جهت حذف مواد رنگزای اَلی با ساختارهای شیمیایی مختلف تحت تابش نور مرئی	دوازدهمین همایش دانشجویی فناوری نانو، انجمن علمی نانوفناوری پزشکی ایران، دانشگاه علوم پزشکی تهران	۳ و ۴ خرداد	علیرضا ختائی، لیلا مرادخان نژاد، سیروس نوری، محمود زارعی
16	جذب سطحی کاتیونهای ${ m Cu}^{2+}$ ، ${ m Mn}^2$ ، ${ m Na}^2$ و ${ m Cu}^{2+}$ از محلولهای آبی با استفاده از زئولیت ${ m NaA}$ بعنوان جاذب	همایش ملی جریان و آلودگی آب، دانشگاه تهران	۳ خرداد ۱۳۹۱	محمود زارعی، بهرام کیوانی، افسانه آزادی اسکوئی
17	Potential of Hydrocotyle vulgaris in biodegradation of monoazo dye solution	هفدهمین کنفرانس سراسری و پنجمین کنفرانس بین المللی زیست شناسی ایران، دانشگاه شهید باهنر کرمان	۱۴–۱۶ شهریور ۱۳۹۱	F. Vafaei, A. Movafeghi, A. R. Khataee, M. Zarei
18	استفاده از زئولیت فعالسازی شده برای حذف مواد رنگزای آلی راکتیو از آبهای آلوده به آن	اولین کنفرانس ملی علوم و مهندسی محیط زیست و توسعه پایدار	۱۷-۱۶ بهمن	ام گلثوم زاهدی، محمود زارعی، نادر جعفرزاده
19	حذف ماده رنگزای آنیونی آبی مستقیم ۱۲۹ از محلول های آبی به وسیله زئولیت اصلاح شده با سورفکتانت کاتیونی	اولین کنفرانس ملی علوم و مهندسی محیط زیست و توسعه پایدار	۱۷–۱۶ بهمن ۱۳۹۲	لیلا خدیر، محمود زارعی، نادر جعفرزاده

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20	Removal of dye solution containing Reactive Red 195 using graphene oxide nanostructures synthesized from Graphite powder	10 th Nanoscience and Nanotechnology Conference, Istanbul, Turkey	17-21 June, 2014	Mahmoud Zarei, Nader Djafarzadeh, Mahdi Kazemzadeh
21	Synthesis of Gold Nanoparticles by Wet Chemical Reduction Method and investigating of the reducing agent and pH effect on the particle size of nanoparticles	10 th Nanoscience and Nanotechnology Conference, Istanbul, Turkey	17-21 June, 2014	Abbas Jafarizad, Dugu Ekinci, Mahmoud Zarei
22	Green synthesis of goldnanoparticles from Hypericum perforatum extract and characterization and physiological stability	The 22nd Iranian Seminar of Organic Chemistry University of Tabriz, Iran	19-21 August, 2014	A. Jafarizad, D. Ekinci, M. Zarei
23	Investigation of the ability of organic dye acid blue 92 biodegradation from contaminated water by Halophila Ovalis	1 St Iranian Applied Chemistry Seminar (1IACS), University of Tabriz, Iran	22-23 August, 2016	M. Zarei , Sakha Pezhhanfar, Amir Mohammad Gholizadeh
24	Quantitative determination of natamycin in dough by Ion Mobility Spectrometry	1 St Iranian Applied Chemistry Seminar (1IACS), University of Tabriz, Iran	22-23 August, 2016	M. Zarei, F. Ghanbari, A. Kanani, A. Hasanzadeh, E. Farimand
25	Application of SEM-EDX to microstructural analysis of historic organic and mineral remains	The Irano-German International Symposium on Archaeometry, Tabriz Islamic Art University, Iran	1-4 November, 2016	M. Zarei
26	Effect of arbuscular mycorrhizal fungi on lead translocation and accumulation in tomato plant	7th Seminar of Chemistry and Environment		
27	Phytoremediation potential of aquatic plant, Nasturium Officinale, in degradation of organic dye, Malachite green	2nd. International conference on Researches in Science & Engineering	3-4 February, 2017	M. Zarei, S. Pezhhanfar, A. Zendeh Del
28	Bioremoval of a triphenylmethane dye, Malachite Green, from contaminated water by duckweed Azolla filiculoides	3rd International conference on sustainable development, strategies and challenges With a focus on Agriculture, Natural Resources, Environment and Tourism	7-9 march, 2017	M. Zarei , S. Pezhhanfar, A. M. Gholizadeh
29	Decolourization of Crystal violet from contaminated waters with utilize natural methods via lentic plant (Lemna minor)	3rd International conference on sustainable development, strategies and challenges With a focus on Agriculture, Natural Resources, Environment and Tourism	7-9 march, 2017	M. Zarei , A. M. Gholizadeh, S. Pezhhanfar
30	Biosorption of hazardous dye Crystal violet from wastewater by using Chlorophytum Comosum as an inexpensive plant	4th International conference on environmental planning and management, poster presentation	16-17 May, 2017	M. Zarei , S. Pezhhanfar, A. Ahmadi Someh
31	Removal of methylene blue from contaminated water via green method by using lentic plant (lemna Gibba)	The 6th International Conference of Chemistry, Chemical, and Polymer Engineering	4 September, 2017	A. M. Gholizadeh, M. Zarei, F. Beheshti Nahand

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	سنتز نانوذرات مغناطیسی Fe3O4 و بررسی اثر پوشش پلیمری		۴-۷ شهريور	سجاد لطفي، باقر اصل بيكي،
32	بر روی حذف فلز سرب از فاضلاب	کنفرانس فیزیک ایران	1447	محمود زارعي
	جذب سطحی رنگ قرمز اسیدی ۸۸ از محیط آبی توسط پسماند		۵ شهریور	محمود زارعی، ابوالفضل احمدی
33	دانه کنجد طلایی ایرانی	دومین سمینار شیمی کاربردی ایران	1498	صومعه، سخا پژهان فر
	جداسازی باکتریهای نفتخوار از خاکهای آلوده پالایشگاه و		۶ شهريور	مهناز افشارنيا، محمدرضا
34	پتروشیمی تبریز و ارزیابی کارایی تجزیه نفتی آنها	پانزدهمین کنگره علوم خاک ایران	1898	ساریخانی، محمود زارعی، علی
				لطف الهي
35	سنتز گرافن سه بعدی و استفاده از آن بعنوان الکترود کاتد جهت	سومین سمینار شیمی کاربردی ایران	۶ شهریور	محمود زارعی، فرزانه بهشتی
	حذف	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	1797	نهند، عليرضا ختائي
		The National Conference	١٧	P. Meshinchi, H. Aghdassinia, S. J.
36	Evaluation of the adsorption kinetics of the antibiotic ciprofloxacin by nano-clay	on Treatment of Water, Air	۱۲ تیرماه ۱۳۹۷	Peighambardoust, M.
	-	and Soil (TWAS2018)		Zarei
37	حذف یون نیترات از آب از طریق روش الکتروشیمیایی با استفاده از	سومین سمینار شیمی کاربردی ایران	۶ شهریور ۱۳۹۷	مسعود عبرت خواهان، محمود
	الکترودهای آلومینیوم و آهن		۱۱ ۲۷ مرداد	زارعی
38	حذف آلاینده دارویی فنازوپیریدین از آبهای آلوده با استفاده از الکترود آند DSA و کاتد پلاتین	چهارمین سمینار شیمی کاربردی ایران	1891	محمود زارعی ، میر قاسم حسینی، طلا بابایی
	Removal of Pb(II) ions from aqueous solution		11 77	Maryam Zarenezhad,
39	using aminated magnetic graphene oxide	The 25th Iranian Seminar of Analytical Chemistry	27 August 2018	Mahmoud Zarei,
	nanoparticles Synthesis of different morphologies of silver	,		Mehdi Hosseinzadeh Mahnaz Alizadeh,
40	nanoparticles and studying of their catalytically properties by optical methods	The 25th Iranian Seminar of Analytical Chemistry	27 August 2018	Mahmoud Zarei , Javad Hassanzadeh
41	nvestigation of the elimination of Acid Red 74 from wastewater by the rounded cones of Cupressus arizonica	The 25th Iranian Seminar of Analytical Chemistry	27 August 2018	Mahmoud Zarei, Sahra Khosroshahiyan, Sakha Pezhhanfar, Abolfazl Ahmadi someh, Zuhair Bolourchian
42	Investigation of Fe-Fe2O3 three dimensional graphene composite as cathode electrode for the electrochemical removal of organic compounds from contaminated water	The 25th Iranian Seminar of Analytical Chemistry	27 August 2018	Somayeh Amali, Mahmoud Zarei , Alireza Khataee
43	بررسی ویژگی های ساختاری نانوذرات فریت اَهن و ترمودینامیک جذب	کنفرانس فیزیک ایران	۱ –۴ شهریور	سجاد لطفي، باقر اصل بيكي،
	یون های سرب از پساب	مسراحی عیریہ – بیری	1899	محمود زارعى
	داربست های اسفنجی بر پایه پلی ساکارید با مواد فعال به عنوان سیلانت در		۱۱ –۹ شهریور	پريا رستم زاده، محمد صادق
44	هموراژ خارجی	پنجمین سمینار شیمی کاربردی ایران	14	امینی فضل، محمود زارعی، فاطمه وفایی
45	تهیه نانوکامپوزیت مغناطیسی با پوشش کربنی جهت حذف سرب از آبهای	چهارمین کنگره ملی شیمی و نانوشیمی	۳۱ شهریور	مهدیه عبدالعلی پورسخا، باقر
43	ألوده	از پژوهش تا فناور <i>ی</i>	14	اصل بیکی، محمود زارعی

Granted patents in Iran

NO	Title of patent	Place of Assembly	Date
1	ساخت الکترود کاتد نانولوله های کربنی برای استفاده از آن در تصفیه آب	ايران	171/1110
	Fabrication of cathodic electrode with carbon nanotubes for water treatment application	Iran	2010
2	فرآیند فتوالکتروفنتون با نور مرئی کاتالیز شده با اگزالات برای حذف آلاینده های رنگزا از آب	ايران	۱۳۸۸/۱۱/۱۰
	Oxalate catalyzed photoelectro-Fenton process using visible light for removal of dyes from water	Iran	2010

Awards, Honorary Degrees, Medals and Positions:

Title of Award, Medal, Position	Issuing Authority	Country	Year	
Top student in M.Sc Course	Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz	Iran	1999	
Top student in Ph.D Entrance exam in 2005	Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz	Iran	2005	
One of the Top Ph.D students of University of Tabriz	Exceptional Talents, University of Tabriz	Iran	2005-2009	
مقاله برتر پوستری کنفرانس	دومین کنفرانس ملی روز جهانی محیط زیست، دانشگاه تهران	ايران	1847	
مقاله برتر كنفرانس	ششمین همایش دانشجویی فناوری نانو، دانشگاه علوم پزشکی و خدمات بهداشتی درمانی شهید بهشتی	ایران	1844	
Top cited article 2008 to 2009	Journal of Electroanalytical Chemistry (Elsevier)	Elsevier	2009	
Hot paper	Journal of Electroanalytical Chemistry (Elsevier)	Elsevier	2012	
Hot paper	Journal of Hazardous Material (ISI)	Elsevier	2012	
Top Cited Paper for 2010 and 2011	Desalination (ISI)	Elsevier	2013	

Membership to Scientific Associations:

Name of Institution/Association	Position Held	Country	Year

Reviewer for Journals:

- 1- Journal of Hazardous Material, *Elsevier*
- 2- CLEAN Soil, Air, Water, Wiley-VCH
- 3- Environmental Technology, Taylor & Francis
- 4- Journal of Environmental Management, *Elsevier*
- 5- Desalination, *Elsevier*
- 6- Journal of Chemical Technology & Biotechnology, Wiley-VCH
- 7- The Korean Journal of Chemical Engineering, Springer
- 8- Bioresource Technology, *Elsevier*
- 9-Industrial & Engineering Chemistry Research, ACS Publications
- 10- Water Research, Elsevier
- 11- Fresenius Environmental Bulletin (FEB), Parlar Scientific Publications
- 12- Desalination and Water Treatment (DWT), Desalination Publications
- 13- Asia-Pacific Journal of Chemical Engineering, Wiley-VCH
- 14- Environmental Progress & Sustainable Energy, Wiley-VCH
- 15- Journal of Industrial Chemistry, Springer
- 16- BioNanoScience, Springer
- 17- Chemical Engineering and Processing, Elsevier
- 18- Chemistry central journal,
- 19- Chemical Engineering Journal, *Elsevier*

Language Proficiency:

Degree of Proficiency												
Language	Writing			Reading			Speaking					
	Native	Cood	Fair	Poor	Native	Cood	Fair	Poor	Native	Cood	Fair	Poor
Farsi	*				*				*			
Turkish	*				*				*			
English		*				*				*		