

Ali A. Ensafi's CV

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Department of Chemistry, Isfahan University of Technology, Isfahan 84156-83111, I.R. IRAN
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Adjunct Professor with Graduate Faculty Status (G2-T), Department of Chemistry &
Biochemistry, University of Arkansas, Fayetteville, AR 72701, USA

<https://fulbright.uark.edu/departments/chemistry/directory/facultyadjunct.php>
<https://graduate-and-international.uark.edu/graduate/faculty-staff/graduate-faculty/current-gfac.php>



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URL: <http://ensafi.iut.ac.ir>

<https://www.linkedin.com/today/author/ali-a-ensafi-3ba85348>

<https://scholar.google.com/citations?user=hr5ichEAAAAJ&hl=en&oi=ao>

<https://orcid.org/0000-0002-1193-4090>

[http://www.euchems.eu/index.php?id=376&no_cache=1&tx_wfqbe_pi1\[detailsid\]=570](http://www.euchems.eu/index.php?id=376&no_cache=1&tx_wfqbe_pi1[detailsid]=570)

https://www.researchgate.net/profile/Ali_A_Ensafi

<https://livedna.org/98.23726>

Top 1% of Scientists in Chemistry in ISI Essential Science Indicators
Top 1% of Scientists in Sciences, Organization of the Islamic Countries
Top Authors Cited Papers, 2009-2012 (Elsevier)
H-index: 71 (Google Scholar)

Position:

September 1991 to February 1995, as an Assistant Professor (a faculty member), Department of Chemistry, Isfahan University of Technology, Isfahan, IRAN.

From Feb. 1995 up to Feb. 2001, as an Associate Professor (a faculty member), Department of Chemistry, Isfahan University of Technology, Isfahan, IRAN).

Since Feb. 2001 up to date, as a Full Professor (a faculty member), Department of Chemistry, Isfahan University of Technology, Isfahan, IRAN.

From Nov. 09, 2010, to March 10, 2019, as a Chairman of the board, Sepahan Chemical Sensor (a private company), Isfahan Science & technology town, Isfahan, Iran.

Date of Birth: April 04, 1961.

Nationality: Iranian

Marital Status: Married

Education:

1988-1991 Ph.D.: Chemistry

Field: Analytical Instrumentation.

Title: Novel Catalytic-Kinetic Methods Combined with FIA Systems for Determining Traces of Some Inorganic & Organic Species.
Department of Chemistry, Shiraz University, Shiraz, I.R. Iran

1986-88 M.Sc.: Chemistry

Field: Analytical Chemistry

Department of Chemistry, Shiraz University, Shiraz, I.R. Iran

1983-86 B. Sc.: Chemistry

Department of Chemistry, Shiraz University, Shiraz, I.R. Iran

Honors & Awards

1. The best Researcher of the year award from *Isfahan University of Technology*, **1996**.

2. First Shiekbahahee Regional Award, *Isfahan Science and Research City, Isfahan, Iran, 1997.*
3. The best Researcher of the year award from *Isfahan University of Technology, 1999.*
4. The best Researcher of the year award from *Isfahan University of Technology, 2002.*
5. The best Researcher of the year award in *Isfahan Province, (Isfahan, Iran), 2003.*
6. The Distinguish Scientist of Iran, Award 17th Kharazmi International Award, Iranian Research Organization for Science and Technology (IROST), Feb. **2004, IRAN**
7. The best Researcher of the year award in *Isfahan Province, (Isfahan, Iran), 2005.*
8. The best Researcher of the year award from *Isfahan University of Technology, 2005.*
9. The best Researcher of the year award from *Isfahan University of Technology, 2006.*
10. The best Researcher of the year in Analytical Chemistry, Iranian Chemical Society, March **2007.**
11. The best project in fabricating H₂S sensor for natural gas in *Mobarake Steel Complex (Isfahan, Iran), 2007.*
- 12- The best project in fabrication of X-ray cooling system in *Mobarake Steel Complex (Isfahan, Iran), 2007.*
- 13- Selected as an ESI Scientist; The Thompson Corporation; **2007, 2008, 2009, and 2010.**
- 14- The Distinguish Researcher of the year award from *Isfahan University of Technology, Jan. 2008.*
15. The best project in *Mobarake Steel Complex (Isfahan, Iran), 2008.*
16. The best Researcher of the year award and Highly Cited Scientist in IUT from *Isfahan University of Technology, Dec. 2008.*
17. Distinguish Scientist of the Islamic Word Countries, **2008.**
18. The Distinguish Researcher of the year award in *Isfahan Province, (Isfahan, Iran) 2009.*
19. The Distinguish Researcher of the year award in *Isfahan Province, (Isfahan, Iran) 2010.*

20. The Distinguish Researcher of the year in the Isfahan University of Technology, award in *IUT*, (Isfahan, Iran) **2011**.
21. The Distinguish Scientist of the year award “16th International Razi Festival”, Feb. **2011**, Tehran, Iran.
22. The Best Scientist in Basic Sciences in Iran, Award from Minister of Sciences & Technology, Dec. **2011**, Tehran, Iran.
23. The best Scientist in Basic Medical Sciences award from the “17th International Razi Festival”, Ministry of Health and Medical Education, Jan. **2012**, Tehran, Iran.
24. The Distinguish Scientist in Basic Sciences of the year award “3rd International Allameh Tabatabaei Festival”, Vice Presidency for Science and Technology, April **2014**, Tehran, Iran.
25. The Distinguish Researcher of the year award in *Isfahan Province*, (Isfahan, Iran), Dec. **2015**.
26. The Distinguish Supervisor of the year award, Isfahan University of Technology, Isfahan, Iran, May **2015**.
27. The Distinguish Researcher of the last three-year in the Isfahan University of Technology, award at Isfahan Province, (Isfahan, Iran) May **2016**.
28. The Distinguish Electrochemist Researcher in Iran, awarded by "Electrochemical Society of Iran," Nov. **2016**.
29. The Distinguish Researcher of the last three-year in the Isfahan University of Technology, award at Isfahan Province, (Isfahan, Iran) May **2020**.

Industrial Innovation

- 1- From April 2002-Dec. 2002 as a manager of the project, Fabrication of On-Line Automatic Oil Refinery for Electrical Transformer, Isfahan University of Technology, Isfahan, Iran.
- 2- From June 2006-March 2007 as a manager of the project, Fabrication of On-Line Gas separating & Sensing for Steel Production Part, Mobarakeh Steel Complex (Isfahan, Iran).

- 3- From June 2012-May 2013 as a manager of the project, Fabrication of On-Line H₂S Gas Sensor for Mobarakeh Steel Complex (Isfahan, Iran).
- 4- From June 2013-June 2014 as a manager of the project, Preparing the Mobarake Steel Company's Labs facilities to get ISO-17025 Certificate, Mobarakeh Steel Complex (Isfahan, Iran).
- 5- From Aug. 2014-March 2015 as a manager of the project, Fabrication of Automatic Electroanalyzer System for Determination of Sn Thickness in Thin Coated Sheets, For Mobarakeh Steel Complex (Isfahan, Iran).
- 6- From May 2017-March 2018 as a manager of the project, Fabrication of On-Line CO-CO₂ Gas Analyzer for Mobarakeh Steel Complex (Isfahan, Iran).
- 7- From June 2017-May 2018 as a manager of the project, Fabrication of On-Line Oxygen Gas Analyzer for Mobarakeh Steel Complex (Isfahan, Iran).

Professional Experience:

- 1- June 2004 to Aug. 2007: Head of Chemistry Department, Isfahan University of Technology, Isfahan, I.R. Iran.
- 2- June 2001-June 2004: Deputy of Research Affairs, Chemistry Department, Isfahan University of Technology, Isfahan, I.R. Iran.
- 3- July 2008 – 2009 Deputy of Research Affairs, Chemistry Department, Isfahan University of Technology, Isfahan, I.R. Iran.
- 4- Jan. 2003-2007 Head of Center of Excellence in Sensors and Green Chemistry, Isfahan University of Technology, Isfahan, I.R. Iran..
- 5- Jan. 2012-up to now Head of Center of Excellence Center in Sensors and Green Chemistry, Isfahan University of Technology, Isfahan, I.R. Iran.
- 6- Oct. 2017-Aug. 2019 Deputy of Research Affairs, Chemistry Department, Isfahan University of Technology, Isfahan, I.R. Iran.
- 7- July 2019-Cont. Head of Chemistry Department, Isfahan University of Technology, Isfahan, I.R. Iran.

Administrative Position:

- 1- Member of “European Association for Chemical and Molecular Sciences,”
http://www.euchems.eu/index.php?id=376&no_cache=1&tx_wfqbe_pi1%5Bdetailsid%5D=570
- 2- 2011-present, Editors Board, Scientia Iranica,
<http://scientiairanica.sharif.edu/journal/editorial.board>
- 3- 2010-present, Editorial Board, International Journal of Biotechnology and Bioengineering Research, http://www.ripublication.com/editorial_board_of_ijbbr.htm
- 4- 2010-present, Editorial Board, The International Journal of Agriculture Food Science & Technology, http://www.ripublication.com/editorial_board_of_ijafst.htm
- 5- 2011-present, Editorial Board, International Journal of Molecular Genetics,
http://www.ripublication.com/editorial_board_of_ijmg.htm
- 6- 2011-present, Editorial Board, International Journal of Horticulture and Crop Science Research, http://www.ripublication.com/editorial_board_of_ijhcsr.htm
- 7- 2011-present, Editorial Board, Global Journal of Applied Agricultural Research (GJAAR), http://www.ripublication.com/editorial_board_of_gjaar.htm
- 8- 2012-present, Associate Editor, Journal of the Iranian Chemical Society;
<http://www.springer.com/chemistry/analytical+chemistry/journal/13738?detailsPage=editorialBoard>
- 9- 2014-present, Editorial Board, International Journal of BioAnalytical Methods & BioEquivalence Studies (IJBMB), https://scidoc.org/editorial_board.php?id=26.
- 10- 2015-present, Member, International Association of Materials to Global Excellence,
<https://www.iaamonline.org/editprofile.html>
- 11- 2017-present, Editorial Board, SF Journal of Nanochemistry and Nanotechnology, USA;

https://scienceforecastoa.com/Journal_Related/Journal_Pages/JournalEditorialBoard.aspx?JId=J1030_SJNN

12- 2017-present, Editorial Advisory Board Member, Current Clinical Pharmacology,

<https://benthamscience.com/journals/current-clinical-pharmacology/editorial-board/>

13- 2018-present, Editorial Board, United Journal of Agricultural Science and Research, United Prime publication,

<https://www.unitedprimepub.com/UnitedJournalOfAgriculture/editor.php>

14- 2020-present: Associate Editor, Frontiers in Sensors, Frontiers Media SA, Avenue du Tribunal Fédéral 34, 1005 Lausanne, Switzerland, [https://www.frontiersin.org/my-](https://www.frontiersin.org/my-frontiers/overview)

[frontiers/overview](https://www.frontiersin.org/my-frontiers/overview)

15- 2020-present: Editor, J. of Biomedical Researches & Environmental Sciences,

<https://www.jelsciences.com/editor-biography.php?id=1127&eName=Ali-A.-Ensafi>

16- 2021-present, Editorial Board, Biosensors Bioelectronics: X, Elsevier.

<https://www.journals.elsevier.com/biosensors-and-bioelectronics-x/editorial-board>

17- Since 2022, Editorial Advisory Board, *Current Reviews in Clinical and Experimental Pharmacology*, <https://www.eurekaselect.net/>

The organizer of Symposia at Conferences of Professional Societies

- 1- Chairman for the *4th Iranian Seminar of Analytical Chemistry*, Department of Chemistry, Isfahan University of Technology, Isfahan, Iran, April 5-7, **1995**.
- 2- 2013, *International Advisory Board, AsiaSens 2013*, The 6th International Conference on Sensors, 27-29 August 2013, Historical City of Melaka, MALAYSIA, <http://asiasense2013.org/organisation.html>
- 3- 2013, *International Organization Committee*, Conference on Nanomaterials (CN 2013), August 16-18, 2013, Beijing, China, <http://www.engii.org/workshop/CN2013August/OrganizingCommittee.aspx>
- 4- 2014, *Program Technical Committee; 3rd Science One Conference on Drug Discovery and Development*, Dubai, January 21-23, 2014; <http://thescienceone.com/scddd>

- 5- 2014, *International Organization Committee, International Conference on Engineering Management and Industrial Engineering, October 16-17, 2014, Xiamen, China,*
<http://www.emie2014.org/com.htm>
- 6- 2014, International Scientific Committee, International Conference on Biological and Chemical Industry Materials (BCIM2014), *June 29~30, 2014, Guangzhou, China,*
<http://www.bcim2014.org/?op=committee>.
- 7- 2014, International Scientific Committee, International Conference on Advanced Technology in Materials Science and Engineering (ATMSE2014), May 17~18, 2014, Macau, <http://www.atmse.org/?op=committee>
- 8- 2014, Chairman of the *20th Iranian Seminar of Analytical Chemistry*, Department of Chemistry, Isfahan University of Technology, Isfahan, Iran, Feb. 25-27, **2014**.
- 9- 2015, 2nd International Conference on Engineering Management and Industrial Engineering (EMIE2015) which will be held on November 22-23, 2015, Sanya, China
<http://www.emie2015.org/com.htm>
- 10- 2015, International Scientific Committee, 11th International Electrochemistry Meeting, Turkey, Sept. 07-11, 2015.
- 11- 2015, International Scientific Committee, International Conference on Environmental Science and Energy Engineering (ICESEE2015), July 26-27, 2015, Phuket, Thailand.
<http://www.icesee2015.org/com.htm>.
- 12- 2015, International Scientific Committee, International Eurasia Pharmacy Congress, Faculty of Pharmacy, Erzincan University, Erzincan, Turkey, Sept. 3-7, 2015.
http://erpharmacy.erkincan.edu.tr/?page_id=12.
- 13- Scientific Committee of 4th to 25th *Iranian Seminar of Analytical Chemistry, Iranian Chemical Society, from 1995 to present.*
- 14- Scientific Committee of 3rd to 18th *Iranian Chemical Congress, Iranian Chemical Society, from 1995 to present.*
- 15- 2016, Organizing Committee, EMM Meeting on Bioinspired Materials, Energy, Materials and Nanotechnology, National University of Kaohsiung, Taiwan, March 14-18, 2016.
<http://emnmeeting.org/bioinspired-materials/committees/>

- 16- 2017, Conference Co-Chairs and Committee Members, The World Symposium on Materials Science and Engineering, Hong Kong, 18-20 January 2017, <http://www.iaeng.org/WSMSE/WSMSE2017/committee.html>
- 17- Member of the organizing committee: Advanced Materials Congress 2017-2018, <http://www.vbripress.com/eamc/>.
- 18- Scientific committee, 6th International Conference on Biotechnology and Bioengineering, September 26-28, **2017** Offenburg, Germany, <http://www.icbb.hs-offenburg.de/2017/organizers/>
- 19- The International Conference on Chemistry and Oxidation Technologies (COT2017), November. 17-19, **2017**, in Yichang, Hubei, China. <http://www.cotconf.org/>
- 20- The 2nd International Conference on Chemistry and Oxidation Technologies (COT 2018), Nov. 23-24, **2018**, in Sanya, Hainan, China. <http://www.cotconf.org/Committee.html>
- 21- Scientific Committee, International Conference and Exhibition on Pharmaceutical Science and Pharmacognosy (ICPP-2018), November 05-07, **2018**, Frankfurt, Germany; <http://worldpharmaconference.com/>
- 22- Technical Committees, 7th International Conference on Engineering and Innovative Materials (ICEIM 2018), Kitakyushu, Japan during September 10-12, **2018**; <http://iceim.org/com.html>
- 23- Scientific Committee, The 3rd Asian Conference on Science, Technology & Medicine, February 12-14, **2019**, Carlton Palace Hotel, Dubai, UAE.
- 24- Committee member, International Conference on Physics and Networks (Physics USA 2019), Sept. 26-28, **2019**, Houston, USA. https://helicsgroup.net/index.php/user/member_details/1464/29
- 25- Editorial board, Material International, an open-access journal, https://materials.international/?page_id=20
- 26- Technical Committee Members, 9th International Conference on Engineering and Innovative Materials, Singapore | September 4-6, 2020; <http://iceim.org/com.html>
- 27- Program Committee Chair, 8th International Symposium on Energy Science and Chemical Engineering (ISESCE 2023), Suzhou, March 24-26, 2023, China.

Committee Service to Professional Societies

1- 2012-present, Elected Member of the Board of Directors for the Iranian Chemical Society, Analytical Chemistry Division.

Memberships Or Professional Organizations

- 1- Iranian Chemistry Society.
- 2- Referenced by CIRS groups, <http://www.cirs-tm.org/> (International Center for Scientific Groups),
- 3-International Society of Electrochemistry, Iran Representative (2015-2017), <http://www.ise-online.org/>
- 5- International Association of Applied Materials
- 6- Asian Chemical Society

Teaching Experience (Sept., 1991-up to now)

Graduate

1. Advanced Analytical Chemistry,
2. Thermal Methods of Analysis,
3. Advanced Electroanalytical Chemistry,
4. Kinetic Aspects of Anal. Chem.
5. Non-aqueous Electrochemistry
6. Advanced Topics in Analytical Chemistry
7. Biosensors

Undergraduate

1. Analytical Chemistry I & II,
2. Instrumental Analysis,
3. General Chemistry,
4. Instrumental Analysis Lab.,
5. Analytical Chemistry Lab.

Research Experience

- Introduction of New Spectroscopic & Electrochemical Methods for Determining of Ultra Traces Amounts of Different Species, Single and Simultaneously (Inorganic, Pharmaceutical& Organic compounds) by Voltammetric Techniques.
- New Development in Electrochemical Sensors & Chemical Sensors based optical methods.
- Application of Above Techniques with Automation System Such as Flow Injection Analysis & Continuous Flow Analysis.
- Application of DNA and Nano-particles to the construction of biosensors, sensors, and pharmaceutical sensors

- Development of New Energy Source Materials Based on Nanomaterials for Fuel Cell and Storage of Energy.

Current Research Interests

1. Chemical (Optodes) and Electrochemical Sensors, Microsensors & Nanosensors, Especially Based on DNA and Antigen Interaction.
2. Separation Techniques & Flow Injection Analysis.
3. Introduction of New Modified Voltammetric & Amperometric Sensors Based on Nanoparticles Using DNA and Antibody/Antigen to Construction of Biosensors and Pharmaceutical Sensors.
4. Development of New Energy Source Materials Based on Nanomaterials for Fuel Cell and Storage of Energy.

Book Publication:

1. ***Quantitative Chemical Analysis, Vol. 1***, (Translation from English to Persian), First Ed., 1999; Second Ed., 2005, Isfahan University of Technology.
2. ***Quantitative Chemical Analysis, Vol. 2***, (Translation from English to Persian) First Ed., 1999; Second Ed., 2005, Isfahan University of Technology.
3. ***Fundamental of Quantitative Chemical Analysis*** (by Ali A. Ensafi & H.R. Mansour), First Ed., 2000; Second Ed., 2004, Third Ed., 2008; Fourth Ed., 2012; and Fifth Ed., 2015 by Jahade Danesgahy, Isfahan branch, Isfahan 84156-83111, Iran.
- 4- Editor: P. N. Jiang, ***Electroanalytical Chemistry Research & Developments; Chapter 5: Trace and Ultra-Trace Analysis: Electrochemical Against Optical Techniques***, ISBN: 1-60021-927-6, Nova Publishers, New York, USA, 2007, (by E. Mirmomtaz, Ali A. Ensafi); pp. 229-254.
- 5- Editor: Polina Prokopovich, ***Biological and Pharmaceutical Applications of Nanomaterials, Chapter 12. Electrochemical Biosensors for Detecting DNA Damage and Genotoxicity***, pp. 289-318, CRC Press, Taylor & Francis Group, FL 33487-2742, USA, 2016; ISBN: 9781482250169; by Ali A. Ensafi, E. Heydari, <https://www.crcpress.com/product/isbn/9781482250169>.
- 6- Victor R. Preedy, Editor, ***Neuropathology of Addiction and Substance Misuse***, Volume 3, Chapter 13, Ali A. Ensafi, Esmaeil Heydari-Bafrooei, ***Interaction of Drugs of Addiction with DNA***, Academic Press; 2016,

<http://www.sciencedirect.com/science/article/pii/B9780128006344000135>.

7- Victor R. Preedy, *Editor*, **Neuropathology of Addiction**, Volume 3, Chapter 49, Ali A. Ensafi, Maryam Amini, **Interaction of Codeine with DNA**, Academic Press; 2016.

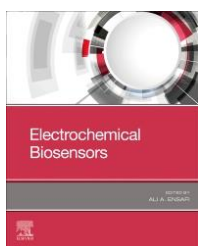
<http://www.sciencedirect.com/science/article/pii/B9780128006344000494>

8- Leigh Canham, *Editor*, **Handbook of Porous Silicon**, 2nd edition; Book Chapter, Ali A. Ensafi, Mehdi Mokhtari Abarghoui, and Najmeh Ahmadi, **Porous Silicon Electrochemical Biosensors: Basic Principles and Detection Strategies**, Springer, 2017, doi:10.1007/978-3-319-04508-5_112-1;

9- Ali A. Ensafi, N. Ahmadi, "Non-Enzymatic Electrochemical Glucose Sensor," Lambert Academic Publishing, 2016, ISBN 978-3-659-96183-0.

10- Editors: Bambang Kuswandi, Mohammed Wasim Siddiqui, **Sensor-Based Quality Assessment Systems for Fruits and Vegetables**, Book chapter by: E. Heydari-Bafrooei, Ali A. Ensafi, Maryam Amini, "Electrochemical Sensors for Quality Determination of Fruits and Vegetables," Apple Academic Press, CRC Press, 2021, <https://www.appleacademicpress.com/sensor-based-quality-assessment-systems-for-fruits-and-vegetables-/9781771889353>

11- Ali A. Ensafi, Editor, **Electrochemical Biosensors**, Elsevier publisher, 2019, Paperback ISBN: 9780128164914, eBook ISBN: 9780128164921; <https://www.elsevier.com/books/electrochemical-biosensors/ensafi/978-0-12-816491-4>



12- Inamuddin, Boddula, Ahmer, Asiri, Editor, **Inorganic Nanomaterials for Supercapacitor Design**, Chapter 3: **Metal-Organic Frameworks Derived Materials for Supercapacitors**, by: E. Heydari-Soureshjani, Ali A. Ensafi, and Ahmad R. Taghipour-Jahromi; CRC Press, 2020, ISBN 9780367230005; <https://www.routledge.com/Inorganic-Nanomaterials-for-Supercapacitor-Design/Inamuddin-Boddula-Ahamed-Asiri/p/book/9780367230005>.

13- Adriana Fontes and Beate S. Santos (Editors), **Quantum Dots, Application in Biology**, 3rd ed., Chapter 17: "Development of Optical Sensors Based on Quantum Dots Using Molecularly Imprinted Polymers for Determination of Prilocaine," Springer-Nature, Methods Mol Biol. 2020, 2135, 275-283.

14- SOORAJ M.P., ARCHANA S. NAIR, BEENA MATHEW, & SABU THOMAS, Editors, **Molecularly Imprinted Polymer Composites – Syntheses, Characterization and Applications**, Chapter 2 by P. Nasr-Isfahani & Ali A. Ensafi: “*Fundamental Aspects of Molecular Imprinting*,” and Chapter 3 by Nafiseh Kazemifard, Ali A. Ensafi, Zeinab Saberi “*Parameters that affect molecular imprinting*” Elsevier publisher; 2021, <https://www.elsevier.com/books/molecularly-imprinted-polymer-composites/m-p/978-0-12-819952-7>.

15- Sibel A. Ozkan, Editor, The Detection of Biomarkers Past, Present and the Future Prospects; by: Nafiseh Kazemifard, Ali A. Ensafi, H.R. Jamei, “**Molecularly imprinted chemical sensors for sensitive detection of biomarkers**, Academic Press, Pages 435-456.

16. ACS Books, Amirhassan Amiri1Chaudhery Mustansar Hussain Editors, Title: **Conductive Polymers in Analytical Chemistry**, Chapter 8, Ali A. Ensafi, Kimia Zarean Mousaabadi1, and Reyhaneh Fazel-Zarandi Application of Conductive Polymers in Analytical Chemistry, ACS, 2022, published. <https://pubs.acs.org/isbn/9780841297869>

17- Editor: Sibel Ozkan, Dr. Uslu, and Dr. Sezginturk, **Biosensors: Fundamentals, Emerging Technologies, and Applications**; Chapter 2: Electrochemical Transducers for Biosensors, by Ali A. Ensafi, P. Nasr-Esfahani, CRC Press, 2022, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003189435-4/electrochemical-transducers-biosensors-ali-ensafi-parisa-nasr-esfahani>

18- Amirhassan Amiri, Masoud Mirzaei Editor, **Metal-Organic Frameworks in Analytical Chemistry**, Chapter ??, Ali A. Ensafi, K. Zarean, “*Sensors based on Conductive Metal-Organic Frameworks*,” THE ROYAL SOCIETY OF CHEMISTRY, under preparation.

Reviewer:

Granting Institutions: Iran National Science Foundation.

Journals: Langmuir, Anal. Chem., Biosensors & Bioelectronics, Journal of the Electrochemical Society, Electroanalysis, Electrochimica Acta, Talanta, Sens. Actuators B, Spectrochimica Acta Part A, Analytical Biochemistry, Bioelectrochemistry, IEEE Sensors J., Analytical Methods, Colloids Surface B, Electrochimica Acta, Mikrochimica Acta, J. Pharm. Biomed. Analysis, Materials Chemistry & Physics, J. Iranian Chem. Soc., J. Brazilian Chem. Soc., Carbon,

Consulting: Mobarake Steel Company, Mobarakeh, Isfahan, Iran (form 1993 to 2017)

Supervised M.Sc. Students` Thesis

More than 135 MSc students graduated.

Supervised Ph.D. Thesis

34 Ph.D. students graduated.

Refereed Journal Papers

1. Ali A. Ensafi, A. Safavi & A. Massoumi, **Spectrophotometric Determination of Nickel in Vegetable Oil with Ammonium 2-Amino-1-Cyclohexene-1-Dithiocarboate**, *Talanta*, **1991**, 38, 229.
2. Ali A. Ensafi & A. Safavi, **Kinetic Spectrophotometric Determination of Traces of Sulphite**, *Anal. Chim. Acta*, **1991**, 252, 121.
3. Ali A. Ensafi & A. Safavi, **Sensitive Spectrophotometric Kinetic Determination of Osmium by Catalytic of the Pyrogallol Red-Bromate Reaction**, *Anal. Chim. Acta*, **1991**, 244, 231.
4. A. Safavi & Ali A. Ensafi, **Flow Injection Determination of Traces of Formaldehyde by the Brilliant Green-Sulphite Reaction with Spectrophotometric Detection**, *Anal. Chim. Acta*, **1991**, 252, 167.
5. Ali A. Ensafi & A. Safavi, **Catalytic Spectrophotometric Determination of Traces of Molybdenum**, *Anal. Letters*, **1991**, 24(6), 1057.
6. A. Akhoond, Ali A. Ensafi, A. Safavi & A., Massoumi, **Detection of Osmium by Flame Atomic Emission Spectrometry after Extraction as Osmium Tetroxide into MIBK**, *Microchem. J.*, **1992**, 45, 365.
7. Ali A. Ensafi, **Flow Injection Determination of Traces of Sulphide by the Brilliant Green-Sulphide Reaction with Spectrophotometric Detection**, *Anal. Letters*, **1992**, 25(8), 1525
8. Ali A. Ensafi, **Catalytic Spectrophotometric Determination of Molybdenum in Plant and Steel with Nile Red Hydrazine Dihydrochloride Reaction**, *Anal. Letters*, **1992**, 25(12), 2339.
9. Ali A. Ensafi & M. Samimifar, **Kinetic Spectrophotometric Determination of Low Level of Nitrite by Catalytic Reaction between Pyrogallol Red and Bromate**, *Talanta*, **1993**, 40, 1375.
10. Ali A. Ensafi & B. Rezaei, **Kinetic Spectrophotometric Determination of Traces of Osmium by Its Catalytic Effect on the Oxidation of Pyrogallol Red by Hydrogen Peroxide**, *Anal. Letters*, **1993**, 26(8), 1771.
11. Ali A. Ensafi & M. Naghizadeh, **Kinetic Spectrophotometric Determination of Mercury in Different Materials Based on its Inhibitory Effect on the Brilliant Green-Sulphite Reaction**, *J. Sci. I.R. Iran*, **1994**, 5(4), 176.

12. Ali A. Ensafi & M. Kyvanfar, **Selective Kinetic Spectrophotometric Determination of Nitrite in Food and Water**, *Anal. Letters*, **1994**, 27(1), 169
13. Ali A. Ensafi & M. Samimifar, **Spectrophotometric Reaction-Rate Method for the Determination of Sulphide by Catalytic Action on the Oxidation of Sodium Azide by Iodine**, *Anal. Letters*, **1994**, 27, 153
14. Ali A. Ensafi & B. Rezaei, **Kinetic Spectrophotometric Determination of Nitrite by its Catalytic Effect on the Oxidation of Brilliant Cresyl Blue by Bromate**, *Microchem. J.*, **1994**, 50, 169.
15. Ali A. Ensafi & A. Kazemzadeh, **Highly Sensitive Spectrophotometric Kinetic Determination of Vanadium by Catalytic Effect on the Galloxyanine-Bromate Reaction**, *Anal Chim. Acta*, **1994**, 298, 27.
16. Ali A. Ensafi & J. Tajebakhsh, **Kinetic Spectrophotometric Determination of Thiocyanate Based on Its Inhibitory Effect on the Oxidation of Pyrogallol Red by Bromate**, *J. of Chem. and Chem. Eng., I.R. Iran*, **1994**, 13(2), 97.
17. Ali A. Ensafi & E. Shams-E-Sollari, **Spectrophotometric Reaction Rate Method for the Determination of Osmium by Its Catalytic Effect on the Oxidation of Galloxyanine by Bromate**, *Talanta*, **1994**, 41, 1651.
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523. Zahra Andikaey, Ali A. Ensafi*, Behzad Rezaei, Shaghayegh Sadeghi Malek and Jin-Song Hu, **MWCNTs-Mesoporous Silica Nanocomposites Inserted in Polyhedra Metal-Organic Framework, an Advanced Hybrid Material for Energy Storage Device**, *New J. Chem.*, **2021**, 45, 18090-18101.
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533. Ali A. Ensafi, B. Mandian-Talkhoonche, E. Heydari-Soureshjani, and B. Rezaei, **Graphene-Like Sheets Supported Fe-Co Layered Double Hydroxides Nanoflakes as An Efficient Electrocatalyst for Both Hydrogen and Oxygen Evolution Reaction, A Green Investigation**, *Chemosphere*, **2022**, 299, 134251.

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547. Esmaeil Heydari-Bafrooei, Ali A. Ensafi, Mohaddeseh Afshari, Mohammad Dinari, and Vahid Ghafarinia, **Mediator-Free Self-Powered Bioassay for Wide-Range Detection of Dissolved Carbon Dioxide**, *Anal. Chem.*, **2022**, 94, 46, 16033–16041.
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Supercapacitor with an Operating Voltage of 1.8 V, *ACS Applied Energy Materials*, Submitted for publication.

555. Farzaneh Farzinpour, Ali A. Ensafi*, Kimia Zarean Mousaabadi, Behzad Rezaei, **Synthesis and Study of Electrochemical Properties of Nanocomposites Based on Vanadium Metal-Organic Framework for Using in Supercapacitor and Oxygen Evolution Reaction**, *Fuel.*, Submitted for publication.

556. Kimia Zarean Mousaabadi, Ali A. Ensafi*, and Behzad Rezaei, **Electrochemical Sensor for the Determination of Methotrexate Based on MOF-Derived NiO/Ni@C-Poly(isonicotinic acid)**, *Industrial & Engineering Chemistry Research*, **2023**, in press.

PAPERS PRESENTED AT NATIONAL MEETINGS AND CONGRESSES

1. 2nd Annual Iranian Chemistry and Chemical Engineering Congress, Ferdowsi University of Mashhad, Mashhad, September 7-10, 1987, I.R. IRAN. **One** paper.

2. 4th Annual Iranian Chemistry and Chemical Engineering Congress, University of Gillian, Rasht, September 4-7, 1989, I.R. IRAN. **One** paper.

3. 5th Annual Iranian Chemistry and Chemical Engineering Congress, Department of Chemical Engineering, Iran, University of Science and Technology, Tehran, August 27- 30, 1990, I.R. IRAN. **One** paper.

4. 2nd Iranian Analytical Chemistry Conference, Tabriz University, Tabriz, May 17-18, 1991, I.R. IRAN. **One** paper.

5. 3rd Iranian Analytical Chemistry Conference, Shahide Bahonar University, Kerman, Aug. 17-19, 1992, I.R. IRAN. **One** paper.

6. 4th Iranian Analytical Chemistry Congress, Mashhad University, Mashhad, April 14-16, 1993, I.R. IRAN. **Two** papers.

7. 5th Iranian Analytical Chem. Conference, Isfahan University of Technology, Isfahan, April 12-14, 1994, I.R. Iran. **Four** papers.

8. 9th Annual Iranian Chemical and Engineering Science, Chem. & Chem. Eng. Research Center, Teheran, 1994, 6-8 Sept., Iran. **Three** papers.

9. 6th Iranian Analytical Chem. Conference, Mazandaran University, Babolsar, Iran, April 24-26, 1995. **Four** papers.
10. 4th Iranian Inorganic Chem. Meeting, Bou Ali Sina University, Hamadan, Iran. **One** paper.
11. 7th Iranian Analytical Chem. Meeting, Esfahan University, Isfahan, Iran, April 24-26, 1996, **Three** papers.
12. 11th Annual Iranian Chemical & Eng. Sci. Conference, University of Teaching Education Tehran, 3-5 Sept. 1996. **Three** papers.
13. 2nd Iranian Electrochemical Meeting, Tabriz University, Tabriz, Iran, Jun. 1997. **One** paper.
14. 2nd International & 12th National Congress on Chemistry and Chemical Engineering, Shahid Bahonar University, Kerman, Iran, 2-5 Sept. 1997. **Three** papers.
15. 8-th Iranian Analytical Chem. Conference, Sahid Ghamran University, Ahwaz, Iran, Feb 3-5, 1998, **One** paper.
16. 13th National Congress on Chemistry and Chemical Engineering, Tarbiat Moddares University, 16-19 Feb. 1999, **One** paper.
17. 9-th Iranian Analytical Chem. Meeting, Tabriz University, Tabriz, Iran, June 17-20, 1999, **Four** papers.
18. 10-th Iranian Analytical Chemistry Congress, Sharif University of Technology, Tehran, Iran, Feb. 6-8, 2001; **Five** papers.
19. 11-th Iranian Analytical Chemistry Conference, Yazd University, Yazd, Iran, 29-31 Jan. 2002; **Five** papers.
20. 12-th Iranian Analytical Chemistry Congress, Mazandaran University, Babolsar, Iran, Jan. 28-30, 2003; **Six** Papers.
21. 13-th Iranian Analytical Chemistry Conference, Ferdowsi University, Mashad, Iran, May 18-20, 2004; **Ten** Papers.
22. 14-th Iranian Analytical Chemistry Conference, Birjand University, Birjand, Iran, Aug. 25-28, 2005; **Five** Papers.

23. 6th Biennial Electrochemistry Seminar of Iran (6BESI), BuAli Sina University, Hamadan, Iran, Sept. 7-9, 2005, **One** paper.
24. 15th Iranian Analytical Chemistry Conference, Shiraz University, Shiraz, Iran, Feb. 27- March 02, 2007; **Six papers**.
25. 7thBiennial Electrochemistry Seminar of Iran (7BESI), Uromieh University, Uromieh, Iran, Aug. 26-28, 2007.**Three** papers.
26. 5th Iranian Electrochemical Congress, April 2009, Tarbiat Modaress University, Tehran, Iran; **Three Papers**.
27. 8th Iranian Biennial Electrochemistry Seminar of Iran (8BESI), Kurdistan University, Sanandage, Iran, July 14-16, 2009. **Three** papers.
28. 16th Iranian Analytical Chemistry Conference, Bu Ali Sina University, Hamadan, Iran; July 28-30, 2009; **Eleven papers**.
29. 17th Iranian Seminar of Analytical Chemistry, Sept. 12-14, 2010, Kashan University, Kashan, Iran; **Eight papers**.
- 30- 8th Iranian Electrochemical Congress, Oct. 9-10, 2010, Kish University, Kish Island, Iran; **(Invited speaker), Five papers**.
31. 18th Iranian Seminar of Analytical Chemistry, May 18-20, 2011; Zahedan University, Zahedan, Iran; **Four papers**.
32. 13th Iranian Chemistry Congress, Sept. 2-5, 2011, Bu-Ali Sina University, Hamadan, Iran;**(Invited speaker) plus Twelve papers**.
33. 9th Iranian Electrochemical Congress, Oct. 13-15, 2011, Khaje Nasir University of Technology, Tehran, Iran; **Two papers**.
34. 19th Iranian Seminar of Analytical Chemistry, March 03-05, 2013; Ferdowsi University, Mashad, Iran; **Nine papers**.
35. 14thIranian Chemistry Congress, Sept. 2-5, 2013, Yazd University, Yazd, Iran; **Three papers**.

36. 20th Iranian Seminar of Analytical Chemistry, Feb. 26-28, 2014; Isfahan University of Technology, Isfahan, Iran; **Ten papers.**
37. 21st Iranian Seminar of Analytical Chemistry, March 2-5, 2015; Sahid Chamran University, Ahwaz, Iran; **Six papers.**
38. 22nd Iranian Seminar of Analytical Chemistry, Dec. 12-14, 2015; Chem. & Chem Eng Research Center, Karaj, Iran; **Ten papers.**
39. 23rd Iranian Seminar of Analytical Chemistry, Sept. 2-4, 2016; Sharif University of Technology, Tehran, Iran; **Five papers.**
40. 12th Iranian Electrochemical Meeting, Tarbiat Modares University, Tehran, Iran, Nov. 16-17, 2016, **Invited speaker.**
41. 12th Biennial Electrochemistry Seminar of Iran (12BESI), University of Isfahan, Isfahan, Iran, May 3-5, 2017, **Four papers.**

PAPERS PRESENTED AT INTERNATIONAL MEETINGS AND CONGRESSES

- 1- 1st International & 8th National Congress on Chemistry and Chemical Engineering, Shahid Beheshti University, Tehran, September 1-3, 1993, I.R. IRAN. **Three papers.**
- 2- The 2nd International & 12-National Congress Chemistry & Chemical Eng. Of Iran, Aug. 31 to 02 Sept. 1997; Sahid bahonar University, Kerman, Iran.
- 3- International Conference on Analytical Sciences, 5-10 Aug. 2001, Waseda University, JAPAN; **Two papers.**
- 4- 9th International Conference on Electroanalysis, Cracow, Poland, 9-13, June 2002; **Three Papers.**
- 5- 3rd International Methods of Instrumental Analysis, Thessaloniki University, Thessaloniki, Greece, Sept. 22-27, 2003; **Three Papers.**
- 6- The 7th Asian Conference on Analytical Sciences, Hong Kong Baptist University, Hong Kong, July, 28-31 2004, **Four papers.**

- 7- 5th Analytical Chemistry and Chemical Analysis, (AC&CA-05), Shevchenko National University, Kiev, Ukraine, Sept. 12-18, 2005. **One** paper.
- 8- 11th Asian Chemical Congress, Korea University, Seoul, Korea, Aug., 24-26 2005, **Three** papers.
- 9- 57th Annual Meeting of the International Society of Electrochemistry, Heriot-Watt University, Edinburgh, England, 27 Aug., to 01 September 2006, **One paper**.
- 10- International Conference on Flow Analysis, Porto, Portugal, 02-08 September 2006. **One** paper.
- 11- 3rd Electrochemistry in Nanosystems and Molecules at Work, Academy of Sciences of the Czech Republic, Jun 28-July 01 2007, Trest Castel, Czech Republic. **Two** papers.
- 12- Nanotechnology Malaysia 2009, Kuala Lumpur Convention Center, Kuala Lumpur, Malaysia; Oct. 27-29 2009; **Two papers**.
- 13- 2nd ISESCO International Workshop and Conference on Nanotechnology In Energy, Materials and Health; Hotel Equatorial, Selangor, Malaysia; 25-27 Jan. 2010; **Invited Speaker, two presentations**.
- 14- 10-International Conference on Nanostructure Materials-2010, Rome, Italy, Sept. 13-17, 2010, **One paper**.
- 15- 61st Annual Meeting of the International Society of Electrochemistry, Nice, France, Sept. 26th Oct. 1st, 2010. **Five papers**.
- 16- Nanotech Malaysia 2010: International Conference on Enabling Science and Nanotechnology, Dec. 1-3, 2010, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia; (**Invited speaker**) **Three papers**.
- 17- XXII International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society, May 08-12, 2011; Krakow, Poland; **Three papers**.
- 18- International Conference on Enabling Science and Nanotechnology, Johor Bahru, Malaysia, Jan. 7-7, 2012; **Two papers**.
- 19- NanoThailand 2012, April 9-11, 2012, Khon Kaen, Thailand; **Invited speaker**.
- 20- AsiaSens-2013, Aug. 27-29, 2013, Melaka, Malaysia; **Invited speaker**.
- 21- 247-th ACS National Meeting & Exposition, Chemistry & Materials for Energy, March 16-20, 2014, Dallas, USA; **1 paper**.

- 22- The 7th Shanghai International Symposium on Analytical Chemistry, Sept. 24-26, 2014, Shanghai, China, Invited speaker, **3 papers**.
- 23- 11-th International Electrochemistry Meeting, Turkey, Sept. 07-11, 2015, **Invited speaker**.
- 24- 26-th International Symposium on Pharmaceutical and Biomedical Analysis (PBA 2015), July 5-8, 2015, Tbilisi, Georgia, **2 papers**.
- 25- International Eurasia Pharmacy Congress, Faculty of Pharmacy, Erzincan University, Erzincan, Turkey, Sept. 3-7, 2015, **Invited speaker**.
- 26- The 2nd International Conference on Materials and Metallurgical Technology 2015 (ICOMMET 2015); The 7th International Conference on Sensors ASIASENSE 2015, Surabaya, Oct. 4-6, 2015, **Keynote speaker**.
- 27- 2016 International Conference on Nanotechnology (ICNT 2016), 10-12 Sept. 2016, Kuala Lumpur, Malaysia, **Keynote speaker**.
- 28- New Scintillations on Materials Horizons' (NSMH-2016), Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly, India, Oct. 21-23, 2016, **Invited speaker**.
- 29- 67th Annual Meeting of the International Society of Electrochemistry, 21-26 Aug. 2016, The Hague, The Netherlands; **Two papers**.
- 30- XII ECHEMS Meeting in Milano Marittima, Italy, June 6-9th 2017, **One paper**.
- 31- 255th ACS National Meeting & Exposition, New Orleans Convention Center, Mar 18, 2018 - Mar 22, 2018, **Two papers**.
- 32- GrapChina 2018, Modification of graphene based materials for new energy sources, 19-21 Sept. 2018, Xian, Chin (**Invited speaker**).
- 33- Euroanalysis XX, Challenge with the recent application of nanomaterials in bioelectrochemistry and electrochemical biosensing, Sept. 01-05, 2019, Istanbul University, Turkey; **Keynote speaker**.
- 34- Department of Chem. & Biochem., University of Arkansas "*The role of metal-organic frameworks in the fabrication of sensors & biosensors*", University of Arkansas, Fayetteville, AR, USA; April 16, 2021; **Invited speaker**.
- 35- World Congress of Applied Nanotechnology, Izmir, Turkey, 24-26 Nov. 2021, **Plenary speaker**.