

Hesham G. Ibrahim



Contact

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Languages

Arabic
English

Summary

Associate Professor of Chemical Engineering at Alasmarya Islamic University (AIU). Teaching of chemical engineering subjects for undergraduate and postgraduate studies. Published about 90 original research in scientific journals and refereed national and international conference and two books. A member of the advisory, editorial, and review committees in many scientific journals and national and international conferences and international Publishing houses

Experience

- **09/2005 to 08/2009**
Assistant Lecturer (Elmergib University, Chemical Engineering Department Faculty of Engineering, Khmos, Libya).
- **09/2009 to 08/2011**
Lecturer (Misurata University, Chemical Engineering Department Faculty of Engineering, Khmos, Libya).
- **09/2011 to 01/2013**
Lecturer (Elmergib University, Chemical Engineering Department Faculty of Engineering, Khmos, Libya).
- **02/2013 to 11/2013**
Assistant Professor (Elmergib University, Chemical and Petroleum Engineering Department Faculty of Engineering, Khmos, Libya).
- **12/2013 to 06/2018**
Assistant Professor (Alasmarya Islamic University, Marine Mechanical Engineering Department, Faculty of Marine Resources, Zliten Libya).
- **06/2018 to 08/2019**
Associate Professor (Alasmarya Islamic University, Marine Mechanical Engineering Department, Faculty of Marine Resources, Zliten Libya).
- **09/2019 to 05/2021**
Associate Professor (Alasmarya Islamic University, Chemical Engineering Department, Faculty of Engineering, Zliten, Libya).
- **05/2021 till now**
Associate Professor (Alasmarya Islamic University, Mechanical Engineering Department, Faculty of Marine Resources, Zliten Libya).

Education

- **Bachelor of Science:** Chemical Engineering - 2002
Elmergib University, Khoms City, Libya (1st rank).
- **Master of Science:** Chemical Engineering - 2005
Elmergib University, Khoms City, Libya.
- **Philosophy Doctorate:** Chemical Engineering - 2010
West Coast University, LA, USA.

Courses Taught:

A) Undergraduate:

- Advanced Mathematics.
- Chemical Reaction Engineering.
- Introduction to Chemical Eng.
- Petroleum Refining.
- Solid Waste Management.
- Heat Transfer.
- Corrosion Engineering
- Thermodynamics.
- Fluid Mechanics.
- Unit Operation.
- Technical Report Writing.
- Applications of Programming in Chemical Engineering.
- Mathematical Analysis and Modeling.
- Transport Phenomena.
- Process Control.
- Industrial Equipment Design.
- Unit Operation Lab.
- Mass Transfer.
- Desalination.
- Basics of Biotechnology Eng.
- Statics.
- Dynamics.
- General Chemistry.
- Basics of Programming.
- Medical Chemistry.

B) Postgraduate:

- Chemical Reactor Design.
- Research Methods.
- Advanced transport Phenomena.
- Natural Gas Processing.

Scientific Interest Area:

- Industrial modeling and simulation.
- Kinetics of chemical reactions.
- Catalysis technique.
- Petroleum Refining.
- Separation techniques.
- Transport Phenomena.
- Water & Wastewater treatment.
- Air pollution control & monitoring.

Computer Skills:

- Ms-Dos, Windows.
- Power Station 4.0.
- QBasic.
- Pascal.
- Polymath.
- Scientist software.
- Aspen Hysys (Processes simulation).
- Aspen plus (Processes simulation).
- Microsoft Office.
- Matlab.
- C++.
- FlexPDE (Finite element solutions).
- CR software (Chemical reactors).
- SPSS (Statistical Analysis).
- SolidWorks 2014 (CFD).
- Fluent v. 6.3.2 (CFD).

Organization Membership:

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|---|------------------------|
| • Palestinian Engineers Union. | Since 2002, Palestine. |
| • Union of Teaching Staff Members of Elmergib University. | 2005-2013, Libya. |
| • International Association of Engineers. | Since 2008, USA. |
| • Union of Teaching Staff Members of AIU. | Since 2013, Libya. |
| • International Society for Development and Sustainability. | Since 2017, Japan. |
| • Elsevier Advisory Panel | Since 2021 |

Certificates of Appreciation:

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| <ul style="list-style-type: none"> • Certificate of Appreciation from Faculty of Engineering for obtaining the first rank on the graduation batch (2001/2002). | Elmergib University (2001/2002). |
| <ul style="list-style-type: none"> • Certificate of Merit from the Department of the General Registrar at Al-Mergheb University for obtaining the first rank on the graduation batch (2001/2002). | Elmergib University (2001/2002). |
| <ul style="list-style-type: none"> • Certificate of Merit as the best research paper at World Congress on Engineering and Computer Science (WCECS 2008), held in San Francisco, USA (2008). Available online at: [http://www.iaeng.org/WCECS2008/awards.html]. | IAENG, San Francisco, USA, 22-24 October, 2008. |
| <ul style="list-style-type: none"> • Certificate of Appreciation 2021 & 2022, from Director Customer Discovery & Innovation, Elsevier. | Director Customer Discovery & Innovation, Netherlands. |

Training Courses:

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| <ul style="list-style-type: none"> • Training and working with engineers for a period of three months in Zliten desalination and power generation plant. | 2001, Zliten, Libya. |
| <ul style="list-style-type: none"> • Special training course on Atomic Absorption Spectrometer (AAS) Varian Spectra A50, by Sadeem Company Ltd. | 2008, Khoms, Libya. |
| <ul style="list-style-type: none"> • Laboratory training in laboratories of the Chemical Engineering department, Elmergib University, on Atomic Absorption Spectrometer by Al-Naqa'a Technologies for Water, Environment and Laboratories. | 2009, Khoms, Libya. |
| <ul style="list-style-type: none"> • Evaluation and measurement in the educational process, organized by ATSU, Alasmarya Islamic University. | 2-3 March, 2015, Zliten, Libya. |
| <ul style="list-style-type: none"> • Psychology in the educational process, organized by ATSU, Alasmarya Islamic University. | 29 April-3 June, 2015, Zliten, Libya. |
| <ul style="list-style-type: none"> • University teaching strategies, organized by ATSU, Alasmarya Islamic University. | 11 April-30 May, 2015, Zliten, Libya. |
| <ul style="list-style-type: none"> • University ethics, organized by ATSU, Alasmarya Islamic University. | 27 April-1 June, 2015, Zliten Libya. |
| <ul style="list-style-type: none"> • Professional development for university teaching staff members in the fields of (Fundamentals of Education and Curriculum Basics), organized by ATSU, Alasmarya Islamic University. | 14 Jan.-3 June, 2015, Zliten, Libya. |
| <ul style="list-style-type: none"> • Introduction to SPSS Statistical Applications Program, organized by ATSU, Alasmarya Islamic University. | 23 Aug. – 07 Sept., 2016, Zliten, Libya. |

Membership of Scientific Panels:

A) Advisory Board:

- Journal of Environmental Treatment Techniques
<http://jett.dormaj.com/Advisory%20editorial%20board.html> Dubai, UAE.
- Journal of Marine Sciences and Environmental Technologies (JMSET).
<https://journals.asmarya.edu.ly/jmset/index.php/JMSET/about/editorialTeam> Zliten, Libya.
- International Journal of Chemical and Process Engineering Research.
<http://www.conscientiabeam.com/editors/editor-list.html> FL, USA.

B) Editorial Board:

- Journal of Chemical Engineering and Material Science.
[\[https://academicjournals.org/journal/JCEMS/editors\]](https://academicjournals.org/journal/JCEMS/editors). Lagos, Nigeria.
- Greener Journal of Science, Engineering and Technology Research.
[\[http://www.gjournals.org/GJSETR/editorial-team.html\]](http://www.gjournals.org/GJSETR/editorial-team.html). Geneva, Switzerland.
- International Journal of Chemical Engineering Science.
[\[http://acascipub.com/International%20Journal%20of%20Chemical%20Engineering%20Science/Editorial%20Board.php\]](http://acascipub.com/International%20Journal%20of%20Chemical%20Engineering%20Science/Editorial%20Board.php). NY, USA.
- Greener Journal of Environmental Management and Public Safety.
[\[http://www.gjournals.org/GJEMPS/editorial-team.html\]](http://www.gjournals.org/GJEMPS/editorial-team.html). Geneva, Switzerland.
- BAOJ Chemistry Journal [2018-2021]
[\[https://bioaccent.org/chemistry/editorialboard.php\]](https://bioaccent.org/chemistry/editorialboard.php). DE, USA.
- International Journal of Chemical and Process Engineering Research.
[\[http://www.conscientiabeam.com/editors/editor-list.html\]](http://www.conscientiabeam.com/editors/editor-list.html). FL, USA.
- International Journal of Engineering and Applied Sciences.[2016-2020]
[\[http://eaas-journal.org/info/Editorial-Board/535/0\]](http://eaas-journal.org/info/Editorial-Board/535/0). Islamabad, Pakistan
- Journal of Alasmarya University (JAU).[2018-2021]
[\[https://www.asmarya.edu.ly/journal/\]](https://www.asmarya.edu.ly/journal/). Zliten, Libya.
- Global Journal of Food and Agricultural Sciences
<https://www.internationalscholarsjournals.org/journal/ijebrds/editorialboard> NY, USA
- International Journal of Modern Engineering Sciences
<http://www.modernscientificpress.com/Journals/IJMES.aspx> FL, USA

C) Reviewer:

- Mechanical Engineering Research.
[\[http://www.ccsenet.org/journal/index.php/mer/editor\]](http://www.ccsenet.org/journal/index.php/mer/editor). Ont., Canada
- International Journal of Chemistry [2017-2021]
[\[http://www.ccsenet.org/journal/index.php/ijc/editor\]](http://www.ccsenet.org/journal/index.php/ijc/editor). Ont., Canada
- Environment and Natural Resources Research.
[\[http://www.ccsenet.org/journal/index.php/enrr/editor\]](http://www.ccsenet.org/journal/index.php/enrr/editor). Ont., Canada
- Environment and Pollution [2016-2021]
[\[http://www.ccsenet.org/journal/index.php/ep/editor\]](http://www.ccsenet.org/journal/index.php/ep/editor). Ont., Canada
- International Journal of Advanced Computer Science and Applications (IJACSA).
[\[https://thesai.org/Reviewers?current=2&filter=H&journal=IJACSA\]](https://thesai.org/Reviewers?current=2&filter=H&journal=IJACSA). W. Yorkshire, UK.
- Journal of Alasmarya University (JAU)
[\[https://www.asmarya.edu.ly/journal/reviewers-list\]](https://www.asmarya.edu.ly/journal/reviewers-list). Zliten, Libya.

D) Scientific Committees of International Conferences:

- 11th International Conference on Chemical & Process Engineering, June 2-5, 2013. [\[https://www.aidic.it/icheap11/\]](https://www.aidic.it/icheap11/). Milan, Italy.
- Science and Information (SAI) Conference, October 7-9, 2013.
[\https://saiconference.com/Downloads/SAIConference2013/SAI%20Conferen London, UK.

ce%20Program.pdf].	
• Science and Information (SAI) Conference, August 27-29, 2014. [https://saiconference.com/Downloads/SAIConference2014/SAI%20Conferece%20Program.pdf].	London, UK.
• Science and Information (SAI) Conference, 28-30 July, 2015. [https://saiconference.com/Downloads/SAIConference2015/SAI%20Conferece%20Program.pdf].	London, UK.
• SAI Computing Conference 2016, 13-15 July 2016. [https://saiconference.com/Conferences/Computing2016]	London, UK.
• Future Technologies Conference (FTC) 2016, December 6-7, 2016. [https://saiconference.com/Conferences/FTC2016].	SF, USA.
• Computing Conference 2017, 18-20 July 2017. [https://saiconference.com/Conferences/Computing2017].	London, UK.
• International Symposium on Computer Science and Intelligent Controls (1st ISCSIC), October 20-22, 2017. [https://www.iscsic.org/2017bp.html].	Budapest, Hungary.
• Future Technologies Conference (FTC) 2017, 29-30 November 2017. [https://saiconference.com/Downloads/FTC2017/Proceedings/IFront_Matter.pdf].	Vancouver, Canada.
• Computing Conference 2018, 10-12 July, 2018. [https://saiconference.com/Conferences/Computing2018].	London, UK.
• International Symposium on Computer Science and Intelligent Controls (2nd ISCSIC), September 21-23, 2018. [https://www.iscsic.org/2018sh.html]	Stockholm, Sweden
• Future Technologies Conference (FTC) 2018, 13-14 November 2018. [https://saiconference.com/Conferences/FTC2018]	Vancouver, Canada
• Computing Conference 2019, 16-17 July 2019. [https://saiconference.com/Conferences/Computing2019]	London, UK
• International Symposium on Computer Science and Intelligent Controls (3 rd ISCSIC), September 25-27, 2019. [https://www.iscsic.org/2019ISCSIC]	Amsterdam, Netherlands
• Future Technologies Conference (FTC) 2019, 25-26 October 2019. [https://saiconference.com/Conferences/FTC2019]	Vancouver, Canada
• Computing Conference 2020, 16-17 July, 2020. [https://saiconference.com/Computing2020/Committees].	Online.
• Future Technologies Conference (FTC) 2020, 5-6 November, 2020. [https://saiconference.com/FTC2020/Committees].	Online.
• ISCSIC 2020: 2020 4 th International Symposium on Computer Science and Intelligent Control November 17 - 19, 2020. [https://www.iscsic.org/tc]	Newcastle, UK.
• Computing Conference 2021, 15-16 July 2021. [https://saiconference.com/Conferences/Computing2021]	Online
• International Symposium on Computer Science and Intelligent Controls (5th ISCSIC), September November 12-14, 2021. [https://www.iscsic.org/2021online]	Online
• Future Technologies Conference (FTC) 2021, 28-29 October 2021. [https://saiconference.com/Conferences/FTC2021]	Online
• Computing Conference 2022, 15-16 July 2022. [https://saiconference.com/Computing]	Online
• FTC 2022 - Future Technologies Conference 2022, 20-21 Oct., 2022. [https://saiconference.com/FTC2022/CommitteeProfile/84a68d55-4b06-40d8-b06f-b4ef37d6ae06]	Online
• International Symposium on Computer Science and Intelligent	Beijing, China

Controls (6h ISCSIC), November 11-13, 2022.

[<https://www.iscsic.org/tc>]

E) Technical/Scientific Committees and Reviewer of national Conferences:

- The second conference on environmental science, 15-17 December, 2015 [**Technical Committee, Reviewer, and Chairman of the sessions**]. Zliten, Libya.
- The Fifth Scientific Conference at the Higher Institute for Comprehensive Professions on scientific research and its role in raising the level of technical education, Al Khums 28, November, 2015 [**Reviewer**]. Khoms, Libya
- The First International Conference on Science and Technology, Sebha University, 12-14, February, 2018 [**Reviewer**]. Sebha, Libya
- The Second Scientific Conference for Engineering and Technical Sciences, Faculty of Engineering, University of Sabratha 29-31, October, 2019 Sabratha, Libya
- Imam Malik's second international conference, 4-6 November, 2019 [**Scientific Committee and Technical Committee**] Zliten, Libya.
- The First International Conference on Engineering Sciences, Faculty of Engineering, University of Sirte, Libya, 1-2, March, 2022 [**Scientific Committees, Reviewer, and Chairman of the sessions**] Sirte, Libya
- The third conference on environmental science, 05-07 June, 2022 [**Reviewer, and Chairman of the sessions**]. Misurata, LY
- First Libyan international conference on engineering sciences and applications - Libyan Academy, Libya, 13-15, March, 2023 [**Scientific Committees, Reviewer, Chairman of the sessions**] Tripoli, Libya

Training Courses Presented:

- 30-hours training course entitled Fundamentals of Programming in the Fortran Language (Power Station 4), at Elbdail Company Training Center in Al-Khams, Libya (2009). 2009, Khoms. Libya.
- 30-hours training course entitled Chemical Engineering Applications in FORTRAN (Power Station 4), at Elbdail Company Training Center. 2010, Khoms. Libya.
- 30-hours training course entitled Solving partial differential equations using the FORTRAN (Power Station 4) program, at Elbdail Company Training Center. 2010, Khoms. Libya.
- 30-hours training course entitled Solving differential equations using the Polymath program, at Elbdail Company Training Center. 2010, Khoms. Libya.
- 45-hours training course entitled Basics of Industrial Simulation, Aspen Hysis, at Elbdail Company Training Center. 2012, Khoms, Libya.
- 45-hours training course entitled Advanced Simulation of Industrial and Oil Operations using Aspen Hysis, at Elbdail Company Training Center. 2012, Khoms, Libya.
- 30-hours training course entitled Matlab Fundamentals and Applications for Engineers, at Elbdail Company Training 2013, Khoms, Libya.

Center.	
<ul style="list-style-type: none"> • 24-hours training course entitled Basics of Photoshop and its applications at the Social Solidarity Fund Training Center. 	2017, Zliten, Libya.
<ul style="list-style-type: none"> • 60-hours training course entitled Industrial processes and pollutant emission sources, at the Libyan Iron and Steel Company Training Center. 	2018, Misurata, LY.
<ul style="list-style-type: none"> • 30-hours training course entitled Simulation of industrial units and processes and determination of pollutant emission concentrations, at the Libyan Iron and Steel Training Center. 	2019, Misurata, LY.
<ul style="list-style-type: none"> • 25-hours training course entitled Methods of measuring and monitoring pollution, at the Libyan Iron and Steel Training Center (2019). 	2019, Misurata, LY.
<ul style="list-style-type: none"> • 03-hours training course entitled "The basics of scientific research and the scientific method of research", at Center for Studies and Research of Environmental Science and Technology. 	2021, Zliten, LY
<ul style="list-style-type: none"> • 03-hours training course entitled "How to choose a research problem and write a research proposal", at Center for Studies and Research of Environmental Science and Technology. 	2021, Zliten, LY
<ul style="list-style-type: none"> • 03-hours training course entitled "Scientific research is not just a profession but a way of life", at Center for Studies and Research of Environmental Science and Technology. 	2021, Zliten, LY
<ul style="list-style-type: none"> • 03-hours Workshop entitled "Preparing and writing the research paper according to international scientific writing standards", at Faculty of Marine Resources for teaching staff and researchers members. 	2021, Zliten, LY

Funded Research Projects:

1. Principal Investigator of a project entitled "Capture of SO _x and NO _x emissions from industrial sources using a fixed bed system from available local materials", Sponsored by the National Commission for Scientific Research (Libyan Commission for Research, Science and Technology), (2009-2017).	Tripoli, Libya.
2. Principle Investigator of a project entitled "Environmental Impact Study and Evaluation at the Libyan Iron and Steel Company and its vicinity" Sponsored by Libyan Iron and Steel Company cooperation with Center for Science and Environment Technology (2019-2020).	Misurata, Libya.
3. Study of the environmental situation in the area surrounding the Libyan Iron and Steel Company, principal investigator, head of the dust pollution team, LISCO (2019-2020).	Misurata, Libya.

Seminars and Lectures Presented:

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| 1. Present a lecture entitled (Dispersion of Industrial Stack Emissions Over Khoms City), at the first symposium on occupational and environmental health and safety, sponsored by the Ministry of Industry, Libya, held at the Industrial Research Center. | Tripoli, Libya
28-30 April, 2013. |
| 2. Present a lecture entitled (Work Environment Risks - Factors and Causes) at the International Day of Occupational and Environmental Health and Safety Symposium, sponsored by Al-Ahlia Cement Company, held in the General Administration of Al-Ahlia Cement Company. | Khoms, Libya.
28 April, 2014. |
| 3. Present a lecture entitled (Techniques of Producing Industrial Processes in the Libyan Iron and Steel Company) at a workshop on the environment and developing environmental policies at the Libyan Iron and Steel Company. | Misurata, Libya.
7 July, 2018. |
| 4. Present a lecture entitled (The Main Works of the Dust Pollution Team), at the first workshop of the Environmental Impact Study and Evaluation Team at the Libyan Iron and Steel Company and its vicinity. | Misurata, Libya.
9 July, 2019. |
| 5. Participate in the first meeting of environmental officials and experts in companies and institutions held in LISCO. | Misurata, Libya.
9 July, 2019 |
| 6. Present a lecture entitled (Study results: dust pollution), at the third workshop on the results of environmental research studies that held in the vicinity of the company, the official sponsor of the workshop, the Misurata Municipal Council. | Misurata, Libya
27 March, 2021 |

Supervision:

A) Undergraduate (B.Sc. Project):

1. Plant Design of Propylene Oxide production.
2. Plant Design of Acrylic Acid production.
3. Design of Modern Fluidized Catalytic Cracking Unit.
4. Design of Dewaxing unit of lubricating oil fraction.
5. Plant Design of Dilsopropyl ether and Acetone Production.
6. Design of Modern atmospheric distillation unit for crude oil.
7. Plant Design of Ethyl Chloride production.
8. Plant Design of Phosgene production.
9. Plant Design of Malic Anhydride production.
10. Plant Design of Aniline Production.
11. Unit Design for Desulfurization of Naphtha fraction.
12. Efficiency Study for the Gaseous Power Station at Khoms City.
13. Rigorous simulation of Conventional distillation for separation three components.
14. Conventional Distillation Schemes for energy conservations in four component separations.
15. Study and simulation of azeotropic distillation unit for separation (Ethanol/Water) system.
16. Design of Styrene Separation Unit.
17. Modeling & Simulation of a Hydrogenation of Iso-Octene Kinetics.

18. Plant Design of Detergents production.
19. Plant Design of Cumene production by Advanced Method.
20. Modeling, Simulation and Design of a fixed bed reactor (Dehydration of Cyclohexanol).
21. Plant Design of Drying Oil (1-Tetradecene) production.
22. Simulation & Design process of CO₂ removal unit from Khoms Gas Power station.
23. Towards an Economic Alternative Fuels (Hydrogen & Ammonia): Design and Economic Study.
24. Steam Power Plant Design Upgrading.
25. Polymath & Aspen Hysys as tools to study chemical engineering courses: (Design of PBR to production styrene).
26. Optimization of Aromatics Recovery from Pyrolysis Gasoline cut by extractive distillation process.
27. Study the Development of Azzawiya Refinery, Libya.
28. A Comparative Study on Temperature Control of CSTR Using Conventional Controllers.
29. Reuse of cooking oils in producing Biodiesel [In Arabic].
30. Biodiesel production from spent cooking oils and its impact on combustion engines [In Arabic].
31. Effect of heat treatment on corrosion of carbon steel in sea water [In Arabic].
32. NO_x emissions from marine vessels and their compliance with MARPOL requirements [In Arabic].

B) Postgraduate (M.Sc. Thesis):

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| 1. Efficiency upgrading of Khoms Power Stations (2014).
With Prof. Dr. Mohamed A. Al-Meshragi. | Libyan Academy,
Tripoli, LY. |
| 2. Investigation of Gaseous Emissions from Sulfur Recovery Unit at Mellitah Gas Plant (2014).
With Prof. Dr. Mohamed A. Al-Meshargi. | Libyan Academy,
Tripoli, LY. |
| 3. Environmental and economic feasibility study of a proposal to establish a plant to produce sulfuric acid in Mellitah, Libya (2015).
With Prof. Dr. Husien Abulwifa. | Libyan Academy,
Misurata, LY. |
| 4. Removal of Gases Emissions from Al-Neer Plant Stacks for Detergents Production in Misurata (2015).
With Prof. Dr. Mohamed A. Al-Meshragi. | Medical Technology College,
Misurata, LY. |
| 5. Study of the environmental effects of kiln chimneys cement production plants in Zliten city (2015).
With Assoc. Prof. Dr. Aly Y. Okasha. | Libyan Academy,
Misurata, LY. |
| 6. Environmental risk assessment of electric power plants in Libya (2017).
With Prof. Dr. Mohamed M. Aboabboud. | Libyan Academy,
Tripoli, LY. |
| 7. Engineering, Environmental and Economic Feasibility Study for the Production of Sulfuric Acid in Mellitah, Libya (2021).
With Prof. Dr. Mohamed A. Al-Meshragi. | University of Tripoli, Tripoli,
LY. |

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| 8. Sorption of Copper onto Natural and Burnt Limestone (2022).
With Prof. Dr. Hadi A. Elakrami | University of
Tripoli, Tripoli,
LY. |
| 9. Separation of Congo Red Dye by Adsorption onto Activated
Carbon from Olive Tree Branches.
With Prof. Dr. Hadi A. Elakrami | University of
Tripoli, Tripoli,
LY. |

Publications:

A) Published Manuscripts:

1. Mohamed A. Al-Meshragi, and **Hesham G. Ibrahim** (2005). Wall Heat Transfer Modeling in Fixed Bed Reactor at High Pressure. 7th World Congress of Chemical Engineering 10 – 14 July 2005, Glasgow, Scotland. P16-105: 1-10.
2. Mohamed Al-Meshragi, and **Hesham G. Ibrahim** (2005). Modified Mathematical Model for Heat Transport in Fixed Bed Reactor at High Pressure. 55th Canadian Chemical Engineering Conference, 16-19 October, 2005. Metro Toronto Convention Center, Toronto, Ontario, Canada. No. 122-201D.
3. Mohamed Al-Meshragi, and **Hesham G. Ibrahim** (2007). Correlations for the Effective Transport Parameters in Fixed Bed Reactor at Elevated Pressure. 57th Canadian Chemical Engineering Conference, 29-31, Oct., 2007. Edmonton; Alberta; Canada. No. 80-CEEDP. <http://csche2007.cheminst.ca/00000029.htm>
4. Ahmed N. Awad, Li Cheng Lie, Mohamed M. Aboabboud, and **Hesham G.M. Ibrahim** (2008). Studies on Parameters for DeSO_x-Additive in RFCC Units. 14th Arab Chemistry Conference and Exhibition (ACC-14), 31 March-03 April, 2008. Tripoli, Libya. No. OR-OIL01: 133.
5. Hesham G. Ibrahim, and Elmakey A. Abushina (2008). Investigation on the Removal of Chromium (III) from Tannery Wastewater by Cement Kiln Dust. Arab Journal of Basic and Applied Sciences, 5: 59-71. <https://journal.uob.edu.bh/bitstream/handle/123456789/650/JAAUBAS050106.pdf?sequence=1&isAllowed=y>
6. Ahmed N. Awad, Li Cheng Lie, Mohamed M. Aboabboud, and **Hesham G.M. Ibrahim** (2008). Studies the role of transition metals in spinels materials to improve the activity of SO_x additive. 1st International Environmental Petroleum Conference (IPEC 2008), 12-14 May, Tripoli, Libya. No. OR-APE 10: 41.
7. M. Aboabboud, **H. Ibrahim**, and A. Awad (2008). Biological Ammonia Removal from Drinking Water in Fluidized Bed Reactors. WIT Transactions on Ecology and the Environment, 111: 453-463. <https://www.witpress.com/elibRARY/wit-transactions-on-ecology-and-the-environment/111/19117>
8. Mohamed Al-Meshragi, **Hesham G. Ibrahim**, and Mohamed M. Aboabboud (2008). Equilibrium and Kinetics of Chromium Adsorption on Cement Kiln Dust. Proceedings of the World Congress on Engineering and Computer Science (WCECS 2008), 22 – 24 October, San Francisco, USA. 2173: 54-62. http://www.iaeng.org/publication/WCECS2008/WCECS2008_pp54-62.pdf
9. **Hesham G. Ibrahim**, Ahmed N. Awad, and Aly Y. Okasha (2008). Kinetic of Cr(III) adsorption on bypass Cement Kiln Dust. 58th Canadian Chemical Engineering Conference, 13-15 October, <http://csche2008.cheminst.ca/00000054.htm>

- Ottawa, Canada. No. 498, CCC7.
10. Aly Y. Okasha, Mohamed Aboabboud, **Hesham G. Ibrahim**, and Ahmed N. Awad (2008). Phenol removal from aqueous systems by sorption with local materials. The 4th International Technology of Oil and Gas, Forum and Exhibition (TOG 4); 21-23 October, Tripoli, Libya. No. TOG-80.
 11. **Hesham G. Ibrahim**, Aly Y. Okasha, Alsdeg M. Alsari, and M. S. Elatrash (2009). Removal of Chromium from Tannery Wastewater Effluents by Fixed-Bed System. The 3rd National Conference of Basic Science, 25-27 April, Gharian, Libya. No. CH09: 1-3.
 12. **Hesham G. Ibrahim**, Aly Y. Okasha, Mohamed M. Aboabboud, and Ahmed N. Awad (2009). Removal of copper from aqueous solutions by adsorption technique onto low cost material The 3rd National Conference of Basic Science, 25-27 April, Gharian, Libya. No. CH12: 1-3.
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B) Chapters Published in Books:

87 Mohamed A. Al-Meshragi, Hesham G. Ibrahim, and Aly Y. Okasha (2009). Removal of Trivalent Chromium from Aquatic Environment by Cement Kiln Dust: Batch Studies. In American Institute of Physics, Conference Proceedings, 1127(1): 74-85.

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C) Published Books:

1. Hesham G. Ibrahim (2010). Wall Heat Transfer Modeling in Fixed Bed Reactor at High Pressure. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany.

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2. Hesham G. Ibrahim (2010). Removal and Recovery of Chromium from Aqueous solutions. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany.

<https://www.amazon.com/REMOVAL-RECOVERY-CHROMIUM-AQUEOUS-SOLUTIONS/dp/3838339037>

D) Scientific Technical Reports:

1. Mohamed A. Al-Meshraghi, Mokhtar S. Elatrash, Aly Y. Okasha, and Hesham G. Ibrahim (2010). Calculating the rates of gaseous and particulate emissions issued by Cement plants of Al-Marqab and Lebda and Khoms steam and gas power stations in Al-Marqab District. A scientific report submitted to the Planning Council in Al-Muraqab District, 2 December.

Khoms, Libya.

2. Mohamed A. Al-Meshragi, Mokhtar S. Elatrash, Aly Y. Okasha, and Hesham G. Ibrahim (2010). Assessment of the effect of gaseous emissions sources on air quality in the environment surrounding Al-Marqab District. A scientific report submitted to the Supreme Planning Council, 12 December.

Tripoli, Libya.

Leading Positions:

- Member of the Scientific Committee, Department of Chemical and Petroleum Engineering, Faculty of Engineering-Khoms, Elmergib University, (2005-2013).
- Member of the scientific committee prepared for the curricula and Syllabus of the undergraduate curriculum in the Department of Chemical and Petroleum Engineering, Faculty of Engineering-Khmos, Elmergib University for the years (2005 and 2012), respectively.
- Study and Examination Coordinator, Department of Chemical and Petroleum Engineering, Faculty of Engineering-Khoms, Elmergib University (2009-2012).
- Member of the technical committee at the university to determine the needs and specifications of laboratories supplied at the Faculties of Elmergib University for the years (2009, 2010, and 2013) respectively.
- Member of the scientific committee prepared for the curricula and Syllabus of the undergraduate curriculum of Faculty of Marine Resources, Alasmarya Islamic University (2012).
- Member of the Scientific Committee of Alasmarya Islamic University, Zliten (Since March 2014 – till April 2021).
- Director of Graduate Studies and Training Office, Faculty of Marine Resources, Alasmara Islamic University, Zliten (since 23/09/2014, till 08/31/2018).
- Head of Marine Geology Department, Faculty of Marine Resources, Alasmarya Islamic University, Zliten (since 01/09/2015 till 04/23/2019).
- Director of the Publishing, Conferences and Symposiums Bureau at the Center for Research and Scientific Studies at Alasmarya Islamic University (since 01/01/2019, till 31/11/2021).
- Head of Research and Consulting Department, Faculty of Engineering, AIU (since 30 Sept. 2019- till 1 Dec. 2020).
- Member of the committee to develop unified mechanisms to detect originality in the scientific output of research published in Alasmarya Islamic University Journals (03/06/2019).
- Member of the Committee to prepare the strategic plan for Alasmarya Islamic University (2019-2023).
- Member of the Final Committee to prepare the Strategic Plan Booklet of Alasmarya Islamic University (04/08/2019).
- Member of the Committee for Development of the Charter for Ethics of Scientific Research at Alasmarya Islamic University (10/02/2019).
- Member of the Committee to set the strategic and operational plan for Scientific Research and Studies Center 2019-2023, Alasmarya Islamic University (04/22/2019).
- Head of Research and Consulting Department, Faculty of Marine resources, AIU (Since 01/ Nov. 2021 till Now).

- Head of Information Technology Department, Information and Documentation Center at Alasmarya Islamic University, (01/10/2022 till now).

Links on Scientific Resreach Sites:

- **Google Scholar:**
<https://scholar.google.com.ly/citations?user=0Ys-mA0AAAAJ&hl=en>
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- **AD Scientific Index 2023:**
<https://www.adscientificindex.com/scientist.php?id=4488989>

Update: 09 April, 2023

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