

## Curricula Vitae

### PERSONAL DATA:

**Name :** Heba Abdallah Mohamed Abdallah

**Surname:** Abdallah

**Other Names:** Heba Abdallah

**Title :** Associate Professor of Chemical Engineering

**Date and Place of Birth:** 29 / 07 / 1978, Al-Saudi

**Nationality:** Egyptian

**Gender:** Female

**Marital Status:** Married

**Address:** National Research Centre, Dokki, Cairo, Egypt

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### **EDUCATION:**

School / College / University	Faculty	Department	Degree Obtained	Thesis title	Date (from – to)
Cairo University	Faculty of Engineering	Chemical Engineering	Ph. D. of Chemical Engineering	Kinetics study of Esterification reaction using <b>Catalytic Membranes</b>	November / 2010
Cairo University	Faculty of Engineering	Chemical Engineering	M. Sc. of Chemical Engineering	Evaluation of Cement lining Mortar for Cast Iron Pipes	December / 2004
Cairo University	Faculty of Engineering	Chemical Engineering	B. Sc. of Chemical Engineering	Graduation Project: Production of Methanol using multi tubular	May / 2000

				reactor	
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**TRAINING:**

<b>Training attended / Technical skills Acquired</b>	<b>Place</b>	<b>Dates (from – to)</b>
5th Cairo international Exhibition of Innovation	Exhibition ground	11/2018
Training Course on Continuous Membrane casting machines and washing machines	HolyKem Company, China	11/2017
Training in spiral wound membrane production	Holykem Company, China	2016
Member in Egyptian National Network in Nanotechnology	Academy of Scientific Research	2015
1 <sup>st</sup> Cairo international Exhibition of Innovation	American University in Egypt	2014
Recent development of water desalination membranes	National Research Centre	2014
The International work shop between Egypt and Tunis in New and Renewable Energy, Cairo, Egypt	National Research Centre	2013
The International Conference for Modern Nano-Technology in Water and Wastewater projects (MNTW'2012), Cairo, Egypt	Egyptian Syndicate of Scientific Professions	2012
Hollow Fiber Membrane Production Training Course	National Research Center with Germany Experts	2011
Estrification Reaction Using Catalytic Membrane	Alabama University United Sate of America	2008
The Foundations of Scientific Dumping Course	National Research Center	2007
Occupational Safety and Health Course	National Research Center	2007

Research & Development Course	Leadership & Management Development Centre	2006
Environmental & Industrial Analysis Course	Association of Scientific Occupation	2005
Heat Treatment Process Conference	The Institute of Research and Development of Metals, Helwan, Egypt	2004

### **POSITIONS:**

<b>Employer</b>	<b>Position</b>	<b>Dates (from – to)</b>
Associate Professor	National Research Centre	2016 Up to now
Researcher	National Research Centre	2010 -2016
Associate Researcher	National Research Centre	2006–2010
Research Assistant	Administration of Research & Development, El-Nasr Casting Company	2001–2006
Engineer	Administration of Research & Development, El-Nasr Casting Company	2000–2001

### **FIELD OF INTREST:**

- Flat Sheet Membranes production
- Spiral wound Membranes
- Multi-holes Hollow Fiber Membranes
- Catalytic Membrane Reactors
- Membrane Technology
- Water Desalination
- Waste water treatment
- Microreactor Technology
- Process Design & Development
- Bio Fuel Production

## **PUBLICATIONS:**

1. Shalaby M. S, NaddeoV, Borea L, **Abdallah H**, Shaban A. M, Zarra T., Belgiorno V, Development of highly flux antifouling RO Polyethersulfone membrane using compacted woven support, *Desalination and Water treatment*, 127 (2018) 83-89.
2. Shereen Kamel Amina, **Heba Abdallah**, Sahar S. Ali, Adnan Alhathal Alanezi, Nanofiltration composite polymeric/ceramic membranes prepared from powder waste of ceramic tile kiln remnants, *Desalination and Water treatment*, 126 (2018) 67–72
3. **Heba Abdallah**, Radwa Taman, Dina Elgayar, Hassan Farag, Antibacterial blend polyvinylidene fluoride/polyethyleneimine membranes for salty oil emulsion separation, *European Polymer Journal* 108 (2018) 542–553
4. Tarek S. Jamil, Eman S. Mansor, **Heba Abdallah**, A.M. Shaban, Innovative high flux/low pressure blend thin film composite membranes for water softening, *Reactive and Functional Polymers* 131 (2018) 384–399.
5. Eman S. Mansor, Tarek S. Jamil, **Heba Abdallah**, A.M. Shaban, Highly thin film nanocomposite membrane based metal organic complexes for brackish water desalination, *Journal of Environmental Chemical Engineering* 6 (2018) 5459–5469.
6. **Heba Abdallah**, Ayman El Gendi, Marwa S. Shalaby, Ashraf Amin, Mahmoud El- Bayoumi, A.M. Shaban, Influence of cellulose acetate polymer proportion on the fabrication of polyvinylchloride reverse osmosis blend membrane, experimental design, *Desalination and Water Treatment*, 116 (2018) 29–38.
7. N.-C. Wang, L.-F. Fang, J. Wang, P. Zhang, W.-B. Wang, C.-E. Lin, L. Xiao, C. Chen, B. Zhao, **H. Abdallah**, H. Matsuyama, B.-K. Zhu, pH-dependent property of carboxyl-based ultrafiltration membranes fabricated from poly(vinyl chloride-r-acrylic acid), *Journal of Applied Polymer Science*, 47068 (2018) 1-9.
8. Mohamed Shaban, Abdallah M. Ashraf, **Heba AbdAllah**, H.M. Abd El-Salam, Titanium dioxide nanoribbons/multi-walled carbon nanotube nanocomposite blended polyethersulfone membrane for brackish water desalination, *Desalination* 444 (2018) 129–141

9. Tarek S. Jamil, Eman S. Mansor, **Heba Abdallah**, Ahmed M. Shaban, Eglal R. Souaya, Novel anti fouling mixed matrix CeO<sub>2</sub>/Ce<sub>7</sub>O<sub>12</sub> nanofiltration membranes for heavy metal uptake, *Journal of Environmental Chemical Engineering* 6 (2018) 3273–3282.
10. **H. Abdallah**, M.S. Shalaby, M.A. Saad, A.M. Shaban, Supporting Polyvinylchloride Polymeric Blend Membrane with Coated Woven Fabric, *Journal of Membrane Science and Research* 4 (2018) 174-180
11. **H. Abdallah**, Sh.K. Amin, H.H. Abo–Almaged, M.F. Abadir, Fabrication of ceramic membranes from nano–rosette structure high alumina roller kiln waste powder for desalination application, *Ceramics International* 44 (2018) 8612–8622.
12. Ahmed Bhran, Abeer Shoaib, Doaa Elsadeq, Ayman El-gendi, **Heba Abdallah**, Preparation of PVC/PVP composite polymer membranes via phase inversion process for water treatment purposes, *Chinese Journal of Chemical Engineering* 26 (2018) 715–722
13. **Heba Abdallah**, Tarek S. Jamil, A.M. Shaban, Eman S. Mansor and Eglal R. Souaya, Influence of the polyacrylonitrile proportion on the fabricated UF blend membranes' performance for humic acid removal, *Journal of Polymer Engineering*, 2018; 38(2): 129–136.
14. Gawel Sołowski, Marwa.S.Shalaby, **Heba Abdallah**, Ahmed.M.Shaban, AdamCenian, Production of hydrogen from biomass and its separation using membrane technology, *Renewable and Sustainable Energy Reviews*, Volume 82, Part 3, February 2018, Pages 3152-3167
15. Laura Borea, Vincenzo Naddeo, Marwa S. Shalaby, Tiziano Zarra, Vincenzo Belgiorno, **Heba Abdalla**, Ahmed M. Shaban, Wastewater treatment by membrane ultrafiltration enhanced with ultrasound: Effect of membrane flux and ultrasonic frequency, *Ultrasonics*, 83 (2018) 42–47.
16. E. El-Zanati, **H. Abdallah**, E. Farg, R. Ettouney, M.Rifai, Enhancing the esterification conversion by pervaporation, *Journal of Engineering Science and Technology* Vol. 13, No. 4 (2018) 990 – 1004.
17. Ayman El-Gendi, **Heba Abdallah**, Ashraf Amin, Shereen Kamel Amin, Investigation of polyvinylchloride and cellulose acetate blend membranes for desalination, *Journal of Molecular Structure* 1146 (2017) 14-22.

18. E. El Zanati, **H. Abdallah**, G. Elnahas, Micro-reactor for Non-catalyzed Esterification Reaction: Performance and Modeling, *International Journal of Chemical Reactor Engineering*. 2017; 20160099
19. **H. Abdallah**, M. shalaby, A.M.Shaban, Fabrication of Reverse Osmosis Spiral Wound Membranes using Local Materials, *11<sup>th</sup> Water Desalination Conference in The Arab countries*, April 2017.
20. **H. Abdallah**, A Review on Catalytic Membranes Production and Applications, *Bulletin of Chemical Reaction Engineering & Catalysis*, 12 (2), 2017, 136-156.
21. **Heba Abdallah**, Ashraf Amin, Ayman El-Gendi and M. El-Bayoumi, Quaternary polymeric thermodynamic system and membrane formation mathematical model, *ARPN Journal of Engineering and Applied Sciences*, VOL. 12, NO. 7, APRIL 2017.
22. M. S. Shalaby, H. H. Shaarawy, A. M. Shaban and **H. Abdallah**, Evaluation for RO- Brackish Water Desalination: A Case Study in Tor Sinai- South Sinai Governate, *ARPN Journal of Engineering and Applied Sciences*, VOL. 11, NO. 23, 2016.
23. Adnan Alhathal Alanezi, **H. Abdallah**, E. El-Zanati, Adnan Ahmad, and Adel O. Sharif, Performance Investigation of O-Ring Vacuum Membrane Distillation Module for Water Desalination, *Journal of Chemistry*, Volume 2016, Article ID 9378460, 11 pages.
24. Amin Sh K, Moustafa AF, Aboud AA, **Abdallah H**, Catalyzation of Esterification Reaction Using Sulfated Titanium Dioxide Nanotubes, Experimental Design and Performance. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*.7 (3) (2016)1479-1490.
25. Sh.K Amin, M. H. Roushdy , S. A. El-Sherbiny , **H. A. M. Abdallah** , M. F. Abadir, Preparation of Nano-Size Ceramic Membrane from Industrial Waste, *International Journal of Applied Engineering Research*, ISSN 0973-4562 Volume 11, Number 10 (2016) pp 7176-7181.
26. Sh.K Amin, **H. A. M. Abdallah**, M. H. Roushdy , S. A. El-Sherbiny , An Overview of Production and Development of Ceramic Membranes, *International Journal of Applied Engineering Research*, ISSN 0973-4562 Volume 11, Number 12 (2016) pp 7708-7721.

27. El-Zanati, E., Ritchie, S. M. C., **Abdallah, H.**, Development of Integrated Catalytic Membrane-Based Unit for Biofuel Production, *Pertanika J. Sci. & Technol.* 24 (1): 451 - 461 (2016).
28. Ayman El-Gendi, Sahar Ali, **Heba Abdallah**, Marwa Saied, Microfiltration/ultrafiltration polyamide-6 membranes for copper removal from aqueous solutions, *Membrane Water Treatment*, Vol. 7, No. 1 (2016) 55-70.
29. Ayman El-gendi, Ashraf Amin, **Heba Abdallah**, Mathematical Model for Polyamide-6/Chitosan Blend Membrane Preparation, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(1) Page No. 892, 2016.
30. A.F.Gaid, M. Edward, **Heba Abdallah**, K. Z. Abdallah, The Effect of Operating Conditions on the Performance of a Vacuum Membrane Distillation Unit Using PES Flat Sheet Membrane, *Civil and Environmental Research*, Vol.8, No.1, 2016.
31. **H. Abdallah**, M. S. Shalaby, A. M. H. Shaban, Performance and Characterization for Blend Membrane of PES with Manganese(III) Acetylacetonate as Metalorganic Nanoparticles, *International Journal of Chemical Engineering*, Volume 2015, Article ID 896486, p 1-9.
32. Mohamed Shaban, Hany Hamdy, **Heba AbdAllah**, Lamiaa Said, Ahmed Abdel khalek, Effects of TiO<sub>2</sub> NTs% on Polyethersulfone/TiO<sub>2</sub> NTs Membranes, *Journal of Materials Science and Engineering A* 5 (1-2) (2015) 65-68.
33. **Heba Abdallah**, Ayman El- Gendi, Maaly Khder, Elham El Zanati, Hydrophobic polyethersulfone porous membranes for membrane distillation, *Frontiers of Chemical Science and Engineering*, 2015, 9(1): 84–93.
34. Elham ElZanati and **Heba Abdallah**, Esterification of Ethyl Hexanoic Acid Using Flow Through Catalytic Membrane Reactor, *Catalysis in Industry*, 2015, Vol. 7, No. 2, pp. 91–97.
35. Mohamed Shaban, **Heba AbdAllah**, Lamiaa Said, Hany S. Hamdy, Ahmed Abdel khalek, Titanium dioxide nanotubes embedded mixed matrix PES membranes characterization and membrane performance, *Chemical Engineering Research and Design*, 2015, vol 95, 307-316.

36. E. El-Zanati, S.M.C. Ritchie, **H. Abdalla**, S. Elnashaie, Mathematical Modeling, Experimental Verification and Optimization for Esterification using Catalytic Membrane Micro-Reaction, *International Journal of Chemical Reactor Engineering*, 2015, Vol 13, p 71-82.
37. Ayman El-Gendi, **Heba Abdalla**, “Laboratory Experiments Design using Factorial Design Software to fabricate excellent RO blend membranes for high salt rejection”, the 4th International Conference for FAS On “Scientific Research and Sustainable Development In Arab Countries and Facing the Challenges “Sharm El-Sheikh, 14-17/4/2015, *EGYPT*
38. **H. Abdallah**, A.F. Moustafa, Adnan AlHathal AlAnezi , H.E.M. El-Sayed, Performance of a newly developed titanium oxide nanotubes/polyethersulfone blend membrane for water desalination using vacuum membrane distillation, *Desalination*. 346 (2014) 30–36.
39. Elham El\_Zanati and **Heba Abdallah**, Interfacially Synthesized Thin Film Composite Nanofiltration Flat Sheet Membrane by Flowthrough Process, *European Journal of Scientific Research*, Vol. 127,( 2014), pp.284-297.
40. Ashraf Amin, **Heba Abdallah** and Ayman El-Gendi, Mathematical model for reverse osmosis membrane preparation, *International Journal of Development*, Vol.3, No.(1) (2014): 129-139.
41. Shaimaa M. Ibrahim, Abdelrahman A. Badawy, Gamil A. El-Shobaky, **Heba A. Mohamed**, Structural surface and catalytic properties of pure and ZrO<sub>2</sub>-doped nanosized cobalt-manganese mixed oxides, *The Canadian Journal of Chemical Engineering*, 92:4 (2014) 676-684.
42. Hisham Essawy, Magda Tawfik, Salwa El-Sabbagh, Ayman El-Gendi, Elham El-Zanati, **Heba Abdallah**, Novel Amphiphilic Conetworks Based on Compatibilized NBR/SBR–Montmorillonite Nanovolcanizates as Membranes for Dehydrative Pervaporation of Water–Butanol Mixtures, *Polymer Engineering and Science*, 2014, 54 (7) 1560-1570.
43. A.El-Gendi, **H. Abdallah**, Thermodynamic modeling of polyamide-6 (PA-6)/cellulose acetate (CA) blend membrane prepared via casting technique, *journal of polymer engineering*, 2013 (8), page701-712.
44. M. S. Shalaby , **H. Abdallah**, Preparation of manganese (III) acetylacetonate nanoparticles via an environmentally benign route, *Frontiers of Chemical Science and Engineering* ,September 2013, Volume 7, pp 329-337.



45. **H. Abdallah**, F. Said, E. Ahmed, O. El-Arady and E. El-Zanati, Development and Preparation of Microfiltration Polyethersulfone Membrane for Catalytic Membrane Application, *Journal of Applied Sciences Research*. 2013, 9 (3): 1623-1634.
46. **H. Abdallah**, A. El-Gendi, E. El-Zanati, T. Matsuura, Pervaporation of methanol from methylacetate mixture using polyamide-6 membrane, *Desalination and Water Treatment*, 2013 (51)7807-7814.
47. Mohamed Shaban , **Heba AbdAllah**, Lamiaa Said, Hany S. Hamdy, Ahmed Abdel khalek, Fabrication of PES/ TiO<sub>2</sub> Nanotubes Reverse Osmosis (RO) Membranes, *Journal of Chemical Acta 2 (2013) 59-61*.
48. A.El-Gendi, **H. Abdallah**, Selectivity performance for polyamide-6 membranes using pervaporation of water /methanol mixtures, *Desalination and Water Treatment*, 51 (2013) 3263–3272.
49. **H. Abdallah**, S. S. Ali, Thermodynamic modeling of PES/CA Blend Membrane Preparation, *International Review of Chemical Engineering (I.RE.C.H.E.)*, September , Vol. 4, N. 5, ISSN 2035-1755, 2012.
50. Ayman EL-GENDI, **Heba Abdallah**, Sahar Ali, Construction of Ternary Phase Diagram and Membrane Morphology Evaluation for Polyamide/Formic acid/Water System, *Australian Journal of Basic and Applied Sciences*, 6(5): 62-68, 2012 ISSN 1991-8178.
51. E. El-Zanati, **H. Abdallah**, Development of functionalized catalytic membrane for ethyl ester production, *International Journal of Emerging Trends in Engineering and Development*, issue 2, Vol (5), 2012.
52. S. S. Ali, **H. Abdallah**, Development of PES/CA Blend RO Membrane for Water Desalination, *International Review of Chemical Engineering (I.RE.C.H.E.)*, Vol. 4, N. 3, ISSN 2035-1755 , 2012.
53. Mohamed Shaban, **Heba AbdAllah**, Lamiaa Said, Hany S. Hamdy, Ahmed Abdel khalek, Fabrication of PES/ TiO<sub>2</sub> Nanotubes Reverse Osmosis (RO) blend Membrane for Brackish water desalination, *1st International Conference for Modern Nano-Technology in Water and Waste Water projects (MNTW'2012)*, Cairo, Egypt.
54. Sh. K. Amin, **H. Abdallah**, Enhancement of Free Fatty Acid in Rice Bran Oil for Acid Catalysis Biodiesel Production, *Australian Journal of Basic and Applied Sciences* , 6(3): 795-806, ISSN 1991-8178, 2012.

55. El-Zanati E., Ritchie S.M., Abdallah H., Ettouny R., El-Rifai M. A., "Esterification catalysis through functionalized membranes", *International Journal of Chemical Reactor Engineering*, Vol. 9, Note S6, (2011).
56. El-Hemaly S.A.S., Abdallah H.A.M., Abadir M.F., El-Sersy H.H., "Evaluation of the internal high alumina cement mortar lining of ductile cast iron pipes used in sewage transportation", *Materials and Design*, 29, 1280–1283, 2008.

### **MAIN RESEARCH AND TECHNOLOGY TOPICS:**

1. PI of Project "Low-cost Polymeric Membrane and Application Technologies for Desalination and Waste Water Treatment, Egypt-China grant project granted by STDF, 2018-2021.
2. PI of project "Production of Reverse Osmosis Spiral Wound Membranes enhanced by fabric support, Young Research Project grant of STDF, 2018-2021.
3. PI in project Development of integrated membranes systems for improving water quality to reach standards of cell and molecular biology applications", The 11th plan of National Research Centre, Internal Project, 2016–2019.
4. CO-PI in Cooperation Indian project" Nano materials-antifouling membranes formulations for water desalination", 2017-2018.
5. CO-PI in Italian Project" Application of Advanced Membrane Desalination for a Sustainable Development of Water Resources in Mediterranean Countries", 2016-2019.
6. Member in project, Production and Development of Sustainable Construction Materials Using Industrial Solid Wastes, The 11th plan of National Research Centre, Internal Project, 2016–2019.
7. Member in STDF project "Novel Membranes with Multiple Hollow Holes (MMHH) for Reaction Catalysis to produce biofuel.", project ID no. 9185, submitted to the Science and Technology Development Fund (STDF) within the framework of the "National Challenges Program., 2015-2017.
8. Member in STDF project "Development of Large scale esterification prototype" project ID no.6311, the Science and Technology Development Fund (STDF), 2015-2016.

9. Member in the Science and Technology Development Fund (STDF). Production of Nano–Ceramic membranes for water desalination by environmentally friendly way, No 10464, the Science and Technology Development Fund (STDF), 2015-2017.
10. “Breakthrough in Chemical Reactor Design; Microreactor and Its Application.”, *The 10<sup>th</sup> plan of National Research Centre, Internal Project*, 2014–2016.
11. Production of Reverse Osmosis Membranes for Water Desalination Project no.5019, STDF, 2014-2016.
12. Innovative Technology for Efficient and Cost Effective Desalination by Membrane Desalination (MD), Project no.552, STDF, 2013-2015.
13. “Engineering and technology development in the production of hollow fiber membranes used in water desalination”, *NRC*, 2007–2013.
14. “R & D Towards a Novel Method for Production of Biofuel Using Membrane Catalysis”, *Project no. 1090, STDF*, 2010–2012.
15. “Production of membrane for water desalination using membrane distillation comparison with conventional methods”, *The 8<sup>th</sup> plan of National Research Centre, Internal Project*, 2007–2010.
16. “Functionalized Membranes for Acid Catalysis, Membrane Acid Catalysis”, *US Egypt Co–operation Project, Academy of Science and Technology*, 2007–2010.
17. “Production and application of local refractory ramming mixes from Egyptian quartz raw materials”, *El–Nasr Casting Company with Ceramic and Refractories Division – National Research Centre*, 2004.
18. “Development and evaluation of the internal cement mortar lining of ductile cast iron”, *El–Nasr Company*, 2001–2003.

#### **GRANTED PATENTS:**

1. “Method in esterification process using catalytic membrane”, Patent no. 26686.
2. "Fabrication of RO membrane using PES/CA blend polymers", Patent no. 27265.
3. "Design and development of Polyamide-6 (PA-6) membranes for pervaporation of water /alcohols mixtures", Patent no.27538.
4. " Method for preparation of hollow ribbon membranes and mothed for catalyzation ", Patent no. 27662.

5. “Production of RO composite membrane of polyethersulfone and polyamide Layer as salt rejection and anti fouling layer for desalination use”, patent no.970/2014.
6. “Production of High Purity Organic Esters Using Microreactors”, patent no. 971/2014.
7. Preparation of hydrophobic polyethersulfone membrane for desalination using membrane distillation, Patent no.1978, 2014.
8. Design and manufacture of a device for the preparation of flat membranes, patent No. 0167/2015.

### **PROGRESS TO PATENTS:**

1. Design, manufacture and test the unit cells of polymeric membranes with recruitment and selection for the rest of the unity of the components of the test membranes Patent No. 1852/2015.
2. Fabrication of Antifouling Spiral Wound Reverse Osmosis Membranes supported by fabric, Patent No.278/2016.
3. Production of Ceramic Membranes from Egyptian Raw Materials and Testing in Local Manufactured Unit, Patent No.1301/2016.
4. Preparation of Blend Membranes of Polyvinylchloride and Cellulose Acetate in Pilot Scale for Using in Desalination, Patent No.1703/2016.
5. Design of unit for hydrogen production using continuous biological reactor working by anaerobic with membrane unit for gas separation, 125/2017.
6. Method for manufacturing of antibacterial and antifouling ultrafiltration spiral wound membranes from polyvinylidene fluoride and nanosilica supported by nonwoven polypropylene, 2018.

### **THESIS SUPERVISION**

- Separation of Oil solutions using integrated Membrane system, Alexandria University, Faculty of Engineering, (PhD).
- Preparation of thin film composite membranes with incorporation with nanomaterial compounds for water treatment, Faculty of Science, Department of Chemistry, Ain Shams University (PhD).

- Fabrication of RO membranes using nanotube TiO<sub>2</sub>, Beni sueif University Faculty of Science (MSc).
- Fabrication of RO membranes using nano ribbon TiO<sub>2</sub> with multiwall carbon nanotubes, Beni sueif University Faculty of Science (MSc).
- Enhancement of esterification reaction by pervaporation, faculty of Engineering, Cairo University (MSc).
- Study of esterification reaction using microreactors, faculty of Engineering, Cairo University (MSc).

### THE SCIENTIFIC LITEATUE

- **BOOKS**
- **Heba Abdallah, Ahmed Fathy, Nanomaterials Incorporated polymeric membranes for water desalination, LAP LAMBERT Academic Publishing (2016) – ISBN: 978-3-659-95923-3.**
- **Shereen Kamel, Heba Abdallah, Shakinaz Ali, Recent Trends in Construction Materials, LAP LAMBERT Academic Publishing (2016) – ISBN: 978-3-659-95677-5.**
- **Heba Abdallah, Shereen .K. Amine, Rice Bran Oil and Biodiesel Production, LAP LAMBERT Academic Publishing (2013-03-22) - ISBN-13: 978-3-659-37098-4.**

### TEACHING EXPERIENCE:

1. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2017–2018:
  - “Membrane Processes”.
2. A mandate to teach at the Faculty of Agriculture, Cairo University for the year 2014/2015.
3. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2010–2011:
  - “Membrane Processes”.
4. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2011–2012:

- “Membrane Processes”
5. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2012–2013:
    - “Membrane Processes”.
  6. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2013–2014:
    - “Membrane Processes”.
  2. Lectures & Courses taught at NRC – Training Center (Summer Training for Students), 2014–2015:
    - “Membrane Processes”.

### **MEMEBERSHIP OF SCIENTIFIC SOCIETIES:**

\* Association of Nanotechnology, Local Association, NRC.

### **Prizes**

1. Award National Research Center of applied projects, 2017
2. Award National Research Center of distinct Impact factor, 2015.
3. Award National Research Center of obtained patent, 2015.
4. Award National Research Center of H-Index, 2015.
5. Award National Research Center of excellence in research output, 2014.
6. Award National Research Center for Pioneers, 2013.
7. Award National Research Center of excellence in research output, 2013.
8. Award National Research Center of excellence in research output, 2012.
9. Award National Research Center of excellence in research output, 2011.

### **Science in the service of society**

1. A television interview on Channel Aloula Egyptian Arms program, in October 2018.
2. A television interview on Channel Aloula Egyptian Arms program, in October 2015.

3. A television interview in the voice of the people program for the future of desalination plants in Egypt TV channel axis, web site youtube: [https://www.youtube.com/watch?v=gBa\\_vd9yFfA](https://www.youtube.com/watch?v=gBa_vd9yFfA)). Dated 03.09.2015.
4. Radio interview science in service of community program in radio Greater Cairo service in 18.08.2015.
5. Rradio interview minds of the Egyptian Radio program year program (3 episodes) in December 2014.

### **Reviewing**

1. Chemical Engineering Communications journal.2013
2. Advancement in Science and Technology Research journal.2015
3. International Journal of Food Research.2015
4. Journal of Microbial & Biochemical Technology.2015
5. The Asian Journal of Atmospheric Environment.2015
6. Chemical Engineering Research and Design.2015, 2016, 2017, 2018
7. Process Biochemistry, 2017.
8. Journal of Energy Engineering, 2017
9. Journal of Energy, Environmental & Chemical Engineering, 2017
10. Small, Wiley, 2017
11. Bulletin of Chemical Reaction Engineering and Catalysis, 2017.
12. Polymer Letter, 2018.
13. Chemical Engineering and Technology, 2018.
14. RSC advances, 2018.
15. European Polymer Journal, 2018.
16. Chemical Science International Journal, 2018.
17. Journal of Basic and Applied Research International, 2018.

### **Review some projects**

1. Review 5 projects for STDF
2. Two projects for young researchers in Beni Suef University, 2014 and 2015.Egypt.
3. Four projects for students in Nile University, Egypt

### **Scientific Posters**

1. Production of flat sheet membrane and spiral wound membranes for desalination and water treatment, Ground Exhibition, Fifth International Innovation 2018.
2. Desalination using membrane distillation unit Pilot unit, the conference room at the University of Al-Azhar, 2015 (Science and Technology Development Fund).
3. New method to produce esters using catalytic membranes, conference room at the University of Al-Azhar, 2015 (Science and Technology Development Fund).
4. Production of flat sheet membrane for desalination and water treatment, the American University, Cairo Exhibition First International Innovation 2014.