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I have 24 years of experience in academia and industry. I have published more than 100 peer-reviewed and conference proceedings articles in addition to one patent and one book chapter. Since I was awarded my Ph.D. in Materials Science and Engineering from The Pennsylvania State University, USA, I have managed more than 10 research projects worth almost 5 million US dollars funded from different agencies inside and outside Qatar e.g. Qatar National Research Fund (QNRF), Hydro/Qatalum, Qatar Petroleum (QP) and Qatar Shell (QS). Also, I offered many consultations for different companies e.g. Ras Gas, Qatar Gas, Qatalum, Qatar Electricity and Water Company (QEWC) and Egyptian Liquefied Natural Gas (ELNG). In addition, I have participated and worked in many projects funded by International companies e.g. Aluminum Company of America (ALCOA, USA), Ballard (BC, Canada) and SANYO (Osaka, Japan). Furthermore, I supervised many young professionals at the Master and Ph.D. levels.

## EDUCATION

Pennsylvania State University, USA

**Ph.D. Honors in Materials Science and Engineering** **2003**

The Use of Microelectrodes in the Study of Localized Corrosion of Aluminum 6111-Like Alloys

GPA 3.93 on a scale of 4 points.

Cairo University, Egypt

**M.Sc. Honors in Physical Chemistry** **1997**

Metal-Complex Modified Conducting Polymer Electrode; Characterization and Sensory Applications

Passed with Distinction

Cairo University, Egypt

**B.Sc. Honors in Chemistry** **1993**

Graduation Thesis: The Use of NMR in Quantitative Analysis

## AWARDS & SCHOLARSHIPS

1. Best project award @ Al-Bairaq, Qatar University. **Oct. 2012, Jan. 2013, Jan. 2014**
2. Postdoctoral Fellowship, University of Calgary, Canada. **January 2009 – December 2009**
3. Postdoctoral Fellowship, Tokyo Institute of Technology. **October 2006 – January 2009**
4. Runner up Poster Winner @ Pennsylvania State University–Industry COOP Meeting. **May 2002– May 2002**
5. Ph.D. Scholarship, Penn State University, USA. **November 1998. – May 2003**

## PROFESSIONAL EXPERIENCE

- Associate Professor @ Center for Advanced Materials, Qatar University, Qatar **2016 – 2019**
- Assistant Professor @ Center for Advanced Materials, Qatar University, Qatar **2012 – 2015**
- Associate Professor @ Chemical Eng. Department, E-JUST University, Egypt **2010 – 2012**
- Associate Professor @ Chemistry Department, Faculty of Science, Cairo University, Egypt **2010 – 2010**
- Research Associate @ Chemistry Department, Calgary University, Canada **2009 – 2009**
- Research Associate @ Electronic Chemistry Department, Tokyo Institute of Technology, Japan **2006 – 2009**
- Assistant Professor @ Chemistry Department, Faculty of Science, Cairo University, Egypt **2004 – 2006**
- Research Associate @ The Chemistry Department, Faculty of Science, Kuwait University, Kuwait. **2003 – 2004**
- Research Assistant @ Materials Science and Engineering Dept., Pennsylvania State Univ., PA, USA **1998 – 2003**
- Research Assistant @ Chemistry Department, Faculty of Science, Cairo University, Giza, Egypt **1994 – 1998**

## RESEARCH INTEREST

- Electrocoalescence
- Aluminum Alloys: Development, Anodization and Corrosion Prevention.
- 1<sup>st</sup> Cut Spent Pot Liner treatment and reuse.
- New Anodes for the Aluminum Smelting Industry.
- Electrochemical sensors
- Sustainability
- Photocatalysts for phenols degradation.
- Anodization and functionalization of aluminum membranes for water treatment.
- superhydrophobic nanocomposite coatings for corrosion prevention.
- New electrodes for compact electrocoalescers.
- Fuel cells (PEM and SOFC).
- Pipelines scales: nature, formation mechanism and corrosion protective behavior in sweet and sour media.
- Localized corrosion, e.g. pitting and crevice.
- Carbon dioxide to fuels mixture using mesoporous materials.
- Failure Analysis.
- Supercapacitors.
- Modified concrete and corrosion of steel rebars.
- Electrocatalysts and modified electrodes for O<sub>2</sub> reduction and O<sub>3</sub> generation.

## ACADEMIC EXPERIENCE

- Developed, taught, graded and administered many chemistry and materials science and engineering courses from the undergraduate to the Ph.D. level.

### Examples

- All chemistry labs for dentistry, veterinary and pharmacy students.
- CHEM 101, CHEM 318 and CHEM 212 @ Cairo University
- CHEM 101, MATS 565 @ Qatar University
- CPE 602 @ Egypt-Japan University of Science and Technology.
- Worked on the academic accreditation of the Chemistry Department, Faculty of Science, Cairo University, Giza, Egypt.
- Worked on the academic accreditation of the Chemical Engineering Department at the Egypt-Japan University of Science and Technology, Alexandria, Egypt.
- Created a The Materials Science and Technology program from A-Z at Qatar University, Doha, Qatar.

- **Reviewer at the Following Journals**

- Applied Surface Science
- Carbon
- Colloids and Surface Science
- Electrochimica Acta
- Functional Materials Letters
- International Research Journal of Biochemistry and Bioinformatics
- Materials Chemistry and Physics.
- Journal of the Electrochemical Society.
- Surface and Coating Technology.
- Microelectronic Engineering

## LANGUAGES

Arabic – Native Language

English – Speak, read and write with high proficiency

## PROFESSIONAL MEMBERSHIPS

- TMS, The minerals, metals and materials society.
- ECS, The electrochemical Society.
- NACE, National Association of Corrosion Engineers.
- ISE, International Society of Electrochemistry.
- ACS, American Chemical Society.

## REFERENCES

1. Prof. Takeo Ohsaka, Kanagawa University, [pt120866sa@kanagawa-u.ac.jp](mailto:pt120866sa@kanagawa-u.ac.jp) I worked for him 2 and half years at Tokyo Institute of Technology.
2. Prof. Ahmed Elzatahry, Dean of Graduate Studies College, Qatar University, [aelzatahry@qu.edu.qa](mailto:aelzatahry@qu.edu.qa) I worked with him more than 10 years.
3. Prof. Mohamed Ayad, Professor of Physical Chemistry, Egypt-Japan University of Science and Technology, [mayad12000@yahoo.com](mailto:mayad12000@yahoo.com) He was my department head for two years.

## M.SC. STUDENTS

1. Omar Al-Jarod, Chemical Treatment and Characterization of Qatalum's 1st Cut Spent Pot Liner (SPL), Qatar University. June 2015. Main Supervisor.

2. Abdullah Hani Holozadah, Synthesizing New Anodes From 1st Cut Spent Pot Liner (SPL) of Qatar Aluminium Reduction Cells, Qatar University. January 2016. Main Supervisor.
3. Shaikha M. A. S. Al-Remaihi, Atmospheric corrosion of Aluminum 6063 and 6082 alloys in Qatar's Environment, Qatar University. January 2016. Main Supervisor.
4. Alaa Hassiba, Preparation and Characterization of Nanocomposites Materials for Biomedical Applications, Qatar University. January 2016, Supervisor.
5. Amina Hamza, Tertiary metal oxides nanocomposites as electrode for renewable energy application, Qatar University. January 2016, Supervisor.
6. Muhsen A. El-Haddad, Corrosion Inhibition of Mild Steel at Elevated Temperatures in Highly Acidic Brines Using Green Corrosion Inhibitor. Qatar University, April 2017, Main Supervisor.
7. Hamed Abushahla, New sulfur-doped carbon fiber – supported alloys for electrocatalytic reduction of oxygen for PEM fuel cells applications. Qatar University, December 2017 Supervisor.
8. Bukr Badwan, Preparation and electrical properties of 2d conducting carbon composites, Qatar University, to graduate in December 2017, Supervisor.
9. Hana Kadavil, preparation and characterization of electrospun nanofibers for biomedical applications, Qatar University, to graduate in December 2017, Supervisor.

## **PATENTS**

- Compact Electrocoalescer with Conical Frustum Electrodes. Under processing. 432743/10030

## **MAJOR AWARDED RESEARCH GRANTS**

1. New Sensor Technology for Online Monitoring of Under Deposit Corrosion Risk in Wet Sour gas Pipelines, 671,000 USD, January 1, 2018 to December 31, 2020.

2. Effect of nickel oxide nanoparticles' shape on the supercapacitance behavior of carbon fiber/nickel oxide nanocomposite, 19,200 USD, April 1, 2017 – March 31, 2018.
3. Risk of Microbiologically Influenced Corrosion (MIC) in GCC pipelines and possible mitigation using superhydrophobic materials. Lead PI, 80,000 USD. January 1<sup>st</sup>, 2017 – December 31, 2017.
4. Corrosion inhibition of C-steel in highly corrosion medium using organic inhibitors 10,000 QR (Student Grant), January 1, 2017 – December 31, 2017. Lead PI.
5. Reuse of Qatalum's first cut spent pot liner in nanocomposites for corrosion protective coating of C-steel, 10,000 QR (Student Grant), January 1, 2017 – December 31, 2017. Lead PI.
6. Photocatalytic Activity of WO<sub>3</sub>-loaded TiO<sub>2</sub> and Graphene/WO<sub>3</sub>-loaded TiO<sub>2</sub> Nanoparticles Towards the Degradation of phenolic compounds-contaminated Wastewater, (PI), submitted to PAAET, 100,000 USD, October 16, 2016 – October 15, 2017.
7. Development of New Generation Electroless Ni-Based Nanocomposite Coating for Oil and Gas Pipelines, 798,000 USD (NPRP). Started February 1, 2016 – January 31, 2019. PI.
8. Understanding Scaling and Corrosion in Sour Gas Pipelines (Lead PI). 403,000 USD, Started June 01, 2015 – May 31, 2018.
9. In-Situ Synchrotron Study for the Effect of Alloying Elements and Steel Microstructure on Developing Carbon Dioxide Corrosion under Hydrodynamic Conditions in Presence and Absence of H<sub>2</sub>S. (Lead PI). 782,600 USD. 3 years project. Started April 11, 2015.
10. Preparation and Characterization of a Low-Cost High Efficient Copper Indium Sulfide (CIS) Thin Film Solar Cell by Sol-Gel Technique (Lead PI). 30,000 USD. September 2014 – September 2015.
11. Metallic Nanoparticles/Organic Inhibitors as a Corrosion Inhibition System (Lead PI). 30,000 USD. September 2014 – September 2015.

12. Characterization and Applications for Qatalum's First Cut Spent Pot Liner (Lead PI). 783,900 QAR (215,000 USD). January 2014 – December 2015.
13. De-watering of water-in-oil emulsions by electro-coalescence and development of compact electro-coalescers, Granted 2012 from Qatar Foundation, US 1,049,000 USD.
14. Establishing Corrosion Atlas for Qatar Petroleum, Granted from QP January 2013, (Lead PI) 650,000 USD.
15. Polyphenolic Compounds – Contaminated Wastewater Treatment, (PI) submitted to KFAS and PAAET, Kuwait, Granted in January 2013, 280,000 USD.
16. Research reward of KD 1,000 for the research paper entitled, Effect of the graphene oxide reduction method on the photocatalytic and electrocatalytic activities of reduction graphene oxide/TiO<sub>2</sub> composite. H. Al-Kandari, A.M. Abdullah, S. Al-Kandari, A.M. Mohamed, RSC Adv., 2015, 5, 71988. Ranked in Q1 journals. PAAET. Kuwait.
17. New Nano Catalyst prepared by Laser for New Energy Applications, Co-granted from King Abdul-Aziz City for Science and Technology University (PI) Ended April 2012 (75,000 USD) small project for 4 months only.

## **PUBLICATIONS AND PAPERS**

### **Book Chapter**

Adel M. Mohamed, Aboubakr M. Abdullah, Mariam Al-Maadeed and Ahmed Bahgat, Fundamental, Fabrication and Applications of Superhydrophobic Surfaces, P. 341, in Research Perspectives on Functional Micro-and Nanoscale Coatings, Ed., Ana Zuzuarregui and Maria Carmen Morant – Minana, IGI Global, USA, 2016.

### **Peer-Reviewed Articles**

**2017**

1. Ahmed Bahgat Radwan, Aboubakr M. Abdullah and Mohammad K. Hassan, Corrosion resistance of superhydrophobic coatings, **Submitted** to Corrosion Science.
2. Eman M. Fayyad, Aboubakr M. Abdullah, Mohammad K. Hassan, Adel M. Mohamed, George Jarjoura, and Zoheir Farhat, Enhancement of the corrosion protection and mechanical properties of Ni-P alloys using C<sub>3</sub>N<sub>4</sub> nanosheets **Submitted** to J. Alloys and Compounds.
3. Eman M. Fayyad, Aboubakr M. Abdullah, Mohammad K. Hassan, Adel M. Mohamed, George Jarjoura, and Zoheir Farhat, A novel 2D/3D Ni-P-C<sub>3</sub>N<sub>4</sub> nanocomposite coating with superior mechanical and electrochemical properties **Submitted** to Coatings.
4. Eman A. Fayyad, Aboubakr M. Abdullah, Mohamed K. Hassan, Zoheir Farhat and George Jarjoura, Electroless Ni-P and Composite Coatings: Recent Advances toward Efficient Corrosion and Erosion Applications **submitted** to Surfaces and Interfaces.
5. Bridget Ingham, William Holmes-Hewett, Monika Ko, Nigel M. Kirby, Mobbassar Hassan Sk, Aboubakr M. Abdullah, Nicholas J. Laycock and David E. Williams, Grazing incidence small-angle X-ray scattering from real-world materials, **Submitted** to Journal of Corrosion Science.
6. Moinuddin M. Yusuf, A. Bahgat Radwan, R. A. Shakoor\*, Muhammad Awais, Aboubakr M. Abdullah, Ni-B/Ni-P-CeO<sub>2</sub> duplex coatings with improved hardness and anticorrosion properties **submitted** to Materials and Design.
7. A. Bahgat Radwan, Aboubakr M. Abdullah, A.M.A. Mohamed, Mariam Al-Maadeed, Effect of Processing Parameters on the Superhydrophobicity of Electrospun Polystyrene – Al<sub>2</sub>O<sub>3</sub> Nanocomposite Fibers **Submitted** to Coatings.
8. A. Bahgat Radwan, Aboubakr M. Abdullah and Nasser A. Alnuaimi, Recent advances in corrosion resistant superhydrophobic coatings, **Accepted** @ Corrosion Reviews (IF = 1.5).



9. H. Al-Kandaria, A. M. Abdullah, Yahia H. Ahmad, S. Al-Kandari, Siham Y. AlQaradawi and A. M. Mohamed, *Scientific Reports* | 7: 9898 | DOI:10.1038/s41598-017-09826-6, An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations, *Scientific Reports*, 2017, 7: 9898 (IF = 4.2).
10. Okonkwo Paul C, R. A. Shakoor, A.M.A. Mohamed, Aboubakr M. Abdullah, Effect of Temperature on The Corrosion Behavior of API X120 Pipeline Steel in H<sub>2</sub>S environment, *Materials Engineering and Performance*, 2017, 26, 3775–3783 (IF = 1.331).
11. Chuhong Wang, Zoheir Farhat, George Jarjoura, Mohamed Hassan and Aboubakr M. Abdullah, Indentation and erosion behavior of electroless Ni-P coating on pipeline steel *Wear*, 2017, 376–377, 1630-1639 (IF = 2.32).
12. Chuhong Wang, Zoheir Farhat, George Jarjoura, Mohammad K. Hassan, Aboubakr M. Abdullah and Eman M. Fayyad, Investigation of Fracture Behavior of Annealed Electroless Ni-P Coating on Pipeline Steel using Acoustic Emission Methodology, *Surface and Coatings Technology*, 2017, 326 A, Pages 336-342 (IF = 2.589)
13. Mobbassar Hassan Sk, Aboubakr M. Abdullah, Monika Ko, Bridget Ingham, Nicholas Laycock and David E. Williams, Local supersaturation and the growth of protective scales during CO<sub>2</sub> corrosion of steel: effect of pH and solution flow *Corrosion Science*, 2017, 126, 26-36 (IF = 5.2).
14. Khaled A. Elsayed, Ahmed A. Elzatahry, Ruqaiah Nasser, K. A. Khalil, Tarek S. Kayed, and Aboubakr M. Abdullah, Nonenzymatic Nitrogen-Doped Carbon Nanofiber – Supported NiOx Glucose Sensor, *Sensors and Materials*, 2017, 29(5), 545-553, (IF = 0.5).
15. Mobbassar Hassan Sk and Aboubakr M. Abdullah, Corrosion of General Oil-field Grade Steel in CO<sub>2</sub> Environment - an Update in the Light of Current Understanding, *International Journal of Electrochemical Science*, 2017, 12, 4277-4290, (IF = 1.692).
16. A. Bahgat Radwan, Mostafa H. Sliem, Paul C. Okonkwo, Mohamed F. Shibl, Aboubakr M. Abdullah, Corrosion inhibition of API X120 steel in a highly aggressive

medium using stearamidopropyl dimethylamine, 2017, 236, 220-231, Journal of Molecular Liquids. (IF= 2.74)

17. Mobbassar Hassan SK, Aboubakr Moustafa Abdullah, Nicholas Laycock, David E Williams and Bridget Inghame, Effects of Flow on Protective Scales Formation in a CO<sub>2</sub> Saturated Brine Environment, ECS Trans. 2017, 75(30): 17-31; doi: 10.1149/07530.0017ecst, (IF = 0.3).
18. Alaa J.E. Hassiba, Mohamed E El Zowalaty Gheyath K. Nasrallah, Thomas J. Webster, Abdullah M. Al-Enizi, Aboubakr M. Abdullah, Riaan Luyt and Ahmed A. Elzatahry , Synthesis, characterization, and antimicrobial activity of double layer nanocomposite electrospun fibers for wound dressing applications, Int. J. Nanomedicine, 2017, 12, 2205-2213, (IF = 4.32).
19. Abdullah M. Al-Enizi, Ahmed A. El-Zatahry, Aboubakr M. Abdullah, Ajayan Vinu, Hideo Iwai, Salem S. Al-Deyab, High Electrocatalytic Performance of Nitrogen-Doped Carbon Nanofiber - Supported Nickel Oxide Nanocomposite for Methanol Oxidation in Alkaline Medium, Appl. Surf. Sci., 2017, 401, 306-313, (IF = 3.2).
20. Amina Hamza, Sayed M. El-Refaei, Ahmed El-Zatahry and Aboubakr M. Abdullah, High Electrocatalytic performance of CuCoNi@CNTs modified glassy carbon electrode towards methanol oxidation in alkaline medium, Appl. Sci. 2017, 7, 64-76, (IF = 1.76).
21. H. Alkandari, Aboubakr M. Abdullah, Ahmed M. Mohamed and S. Alkandari, Synergistic Effect of O<sub>3</sub> and H<sub>2</sub>O<sub>2</sub> on the Visible Photocatalytic Degradation of Phenolic Compounds Using TiO<sub>2</sub>/Reduced Graphene Oxide Nanocomposite, Sci. Adv. Mat. 2017, 9, 739–746, (IF = 1.812).

## 2016

22. V Vivacqua, M Ghadiri, A M Abdullah, A Hassanpour, MJ Al-Marri, B Azzopardi, B Hewakandamby, B Kermani, Analysis of partial electrocoalescence by level-set and finite element methods, Chem. Eng. Res. Design, 2016, 114, 180-189, (IF = 2.348).
23. Vincenzino Vivacqua, Mojtaba Ghadiri, Aboubakr M Abdullah, Ali Hassanpour, Mohammed J Al-Marri, Barry Azzopardi, Buddhika Hewakandamby, Bijan Kermani,

Linear Dynamics Modelling of Droplet Deformation in a Pulsatile Electric Field, *Chem. Eng. Res. Design*, 2016, 114, 162-170, (IF=2.348).

24. Kripal S. Lakhi, Wang S. Cha, Jin-Ho Choy, Maryam Al-Ejji, Aboubakr M. Abdullah, Abdullah M. Al-Enizi, Ajayan Vinu, Synthesis of mesoporous carbons with controlled morphology and pore diameters from SBA-15 prepared through the microwave assisted process and their CO<sub>2</sub> adsorption capacity, *Micropor. Mesopor. Mat.*, 2016, 233, 44-52, (IF = 3.349).
25. H. Al-Kandari, Aboubakr M. Abdullah, Ahmed M. Mohamed and S. Al-Kandari, Enhanced Photocatalytic Degradation of a Phenolic Compounds' Mixture Using a Highly Efficient TiO<sub>2</sub>/Reduced Graphene Oxide Nanocomposite, *J. Mat. Sci.*, 2016, 51, 8331-8345, (IF = 2.3).
26. Aboubakr M. Abdullah, Noora J. Al-Thani, Khoulood Tawbi and H. Al-Kandari, Carbon/nitrogen-doped TiO<sub>2</sub>: New synthesis route, characterization and application for phenol degradation, *Arab. J. Chem*, 2016, 9, 229–237, (IF =3.725).
27. M. H. Sk, R. A. Overfelt, A. M. Abdullah, Effects of microstructures on hydrogen induced cracking of electrochemically hydrogenated double notched tensile sample of 4340 steel, *Mat. Sci. Eng.A*, 2016, 659, 242-255, (IF=2.567).
28. Xiqing Wang, Yu Zhang, Wei Luo, Ahmed A Elzatahry, Xiaowei Cheng, Abdulaziz Alghamdi, Aboubakr M Abdullah, Yonghui Deng, Dongyuan Zhao, Synthesis of Ordered Mesoporous Silica with Tunable Morphologies and Pore Sizes via a Nonpolar Solvent-Assisted Stöber Method, *Chem. Mat.*, 2016, 28, 2356-2362, (IF=8.354).
29. A. Bahgat Radwan, Adel M. Mohamed, Aboubakr M. Abdullah and M. Al-Maadeed, Corrosion Protection of Electrospun PVDF-ZnO Superhydrophobic Coating, *Surf. Coat. Tech.*, 2016, 289, 136-143, (IF=1.998).
30. Alaa J Hassiba, Mohamed E El Zowalaty, Gheyath K Nasrallah, Thomas J Webster, Adriaan S Luyt, Aboubakr M Abdullah & Ahmed A Elzatahry, Review of recent research on biomedical applications of electrospun polymer nanofibers for improved wound healing, *Int. J. Nanomedicine*, 2016, 11, 715-737, (IF = 4.38).

31. H. Al-Kandari, A. M. Abdullah, A. M. Mohamed, S. Al-Kandari, Photocatalytic Oxidation of wastewater contaminated with phenol using Graphene/TiO<sub>2</sub> nanocomposite, In. J. adv. Sci. Eng. & Tech., 2016, 4(2), 62-64

**2015**

32. A. M. Abdullah, A. A. Mohamed, A. Bahgat, and M. Al-Maadeed, Superhydrophobic and Corrosion Behavior of Electrospun PVDF-ZnO Coating, ECS Transactions, 2015, 64 (26) 57-67, (IF = 0.295).
33. H. A. Al-Kandari, A. M. Abdullah, S. A. Al-Kandari, and A. M. Mohamed, Photocatalysis of TiO<sub>2</sub> – Supported Graphene and Graphene Oxide Towards Phenol Degradation, ECS Transactions, 2015 64 (32) 1-12, (IF = 0.295).
34. Vivacqua Vincenzino, Sameer Mhatre, M. Ghadiri, Aboubakr M. Abdullah, Ali Hassanpour, Mohammed J Al-Marri, Barry Azzopardi, Buddhika Hewakandamby and Bijan Kermani. Electrocoalescence of Water Drop Trains in Oil under Constant and Pulsatile Electric Field, Chem. Eng. Res. Des., 2015, 104, 658–668, (IF = 2.348).
35. A. Bahgat Radwan, Aboubakr M. Abdullah, Hans J. Roven, Adel M. Mohamed & Mobbassar Hassan SK, Failure Analysis of 316L Air Cooler Stainless Steel Tube in a Natural Gas Production Field, Accepted for Publication at the Int. J. Electrochem. Sci. 2015, 10(9), 7606-7621, (IF = 1.5).
36. Qin Yue, Jialuo Li, Wei Luo, Yu Zhang, Ahmed A. Elzatahry, Xiqing Wang, Chun Wang, Wei Li, Xiaowei Cheng, Abdulaziz Alghamdi, Aboubakr M. Abdullah, Yonghui Deng and Dongyuan Zhao, An Interface Coassembly in Biliquid Phase: Toward Core–Shell Magnetic Mesoporous Silica Microspheres with Tunable Pore Size, J. Am. Chem. Soc., 2015,137, 13282-13289, (IF = 12.113).
37. Dengke Shen, Lei Chen, Jianping Yang, Renyuan Zhang, Yong Wei, Xiaomin Li, Wei Li, Zhenkun Sun, Hongwei Zhu, Aboubakr M. Abdullah, Abdullah Al-Enizi, Ahmed A. Elzatahry, Fan Zhang, and Dongyuan Zhao , Ultradispersed Palladium Nanoparticles in Three-Dimensional Dendritic Mesoporous Silica Nanospheres: Toward Active and Stable Heterogeneous Catalysts, ACS Appl. Mater. Interfaces, 2015, 7 (31),17450–17459, (IF = 6.723).

38. H. Al-Kandari, Aboubakr M. Abdullah, A. M. Mohamed and S. Al-Kandari, Effect of Graphene Oxide Reduction Method on the Photocatalytic and Electrocatalytic Activities of Reduced Graphene Oxide/TiO<sub>2</sub> Composite, RSC Advances, 2015, 5(88), 71988-71998, (IF = 3.84).
39. S. Mhatre, V. Vivacqua, M. Ghadiri, A. M. Abdullah, M. J. F. A. Al-Marri, A. Hassanpour, B. Hawakandamby, Azzopardi and B. Kermani. Electrostatic Phase Separation: A Review, Chemical Engineering Research and Design, 2015, 96, 177-195 (IF=2.23).
40. Lichao Jia, Geoffrey Lawrence, V. V. Balasubramanian, Goeun Choi, Jin-Ho Choy, Aboubakr M. Abdullah, Ahmed Elzatahry, Katsuhiko Ariga, and Ajayan Vinu, Highly Ordered Nanoporous Carbon Films with Tunable Pore Diameters and their Excellent Sensing Properties, Chemistry A European Journal, 2015, 21, 697-703 (IF = 5.696).
41. Adel M.A. Mohamed, Aboubakr M. Abdullah, Nathalie A. Younan, Corrosion Behavior of Superhydrophobic Surfaces: A Review, Arabian J. Chem., 2015, 8 (6) 749–765 (IF = 2.27).

#### **2014**

42. Halema Ali Al-Kandari, Aboubakr Moustafa Abdullah, Ahmed Meslam Mohamed, and Shikah Ali Al-Kandari, ECS Trans. 2014, 61(39, 13-26; doi: 10.1149/06139.0013ecst (IF = 0.295).
43. E. M. Fayyad, M. A. Almaadeed, A. Jones, Aboubakr M. Abdullah, Evaluation Techniques for the Corrosion Resistance of Self-healing Coatings, Int. J. Electrochem. Sci., 2014, 9, 4989 - 5011 (IF = 1.5).
44. Abdullah M. Al-Enizi, Ahmed A. Elzatahry, Aboubakr M. Abdullah, Mariam A. AlMaadeed, Jinxiu Wang, Dongyuan Zhao, Salem Al-Deyab, Synthesis and electrochemical properties of nickel oxide carbon nanofiber composites, CARBON, 2014, 71, 276 –283 (IF = 6.16).
45. Nesibe Gozde Ozerkan, Omar Liqaa Maki, Momen Wael Anayeh, Stian Tangen, Aboubakr M. Abdullah, The Effect of Aluminium Dross on Mechanical and

Corrosion Properties of Concrete, International journal of Innovative Research in Science, Engineering and Technology, 2014, 3(4), 9912-9922 (IF = 1.67).

46. A. M. Abdullah, N. F. Atta, A. Galal, A. A. Afifi, Nathalie A. Younan and Adel M. A. Mohamed, Corrosion Inhibition of C-Steel Using Supported and Non-Supported Cu Nanoparticles/ Benzotriazole, ECS Transactions, 2014, 61 (20) 15-23.
47. A. M. Al-Enizi, A. A. El-Zatahry, A. M. Abdullah, S. S. Al-Deyab, Nickel Oxide Carbon Nanofiber Composite for Electrochemical Oxidation of Methanol, ECS Transactions, 2014, 61 (16) 1-11.

### **2013**

48. Mirabbos Hojamberdiev, Mehmet S. Bozgeyik, Aboubakr M. Abdullah, Maged F. Bekheet, Gangqiang Zhu, Yinglin Yan, Yunhua Xu, Kiyoshi Okada, Hydrothermal-induced growth of  $\text{Ca}_{10}\text{V}_6\text{O}_{25}$  crystals with various morphologies in a strong basic medium at different temperatures, Materials Research Bulletin, 2013; 48(4):1388–1396. (IF = 2.288).

### **2001-2012**

49. Ahmed A. Elzatahry, Aboubakr M. Abdullah, Taher A. Salah El, Abdullah M. Al-Enizi, Ahmed A. Maarouf, Ahmed Galal, Hagar K. Hassan, Ekram H. El-Ads, Salem S. Al-Theyab, and Attiah A Al-Ghamdi, Nanocomposite Graphene-Based Material for Fuel Cell Applications, Int. J. Electrochem. Sci., 2012, 7, 3115 – 3126 (IF = 1.5).
50. A. Tawfik, A. Salem, M. El-Qelish, Aboubakr M. Abdullah, E. Abou Taleb , “Feasibility of Biological Hydrogen Production from Kitchen Waste via Anaerobic Baffled Reactor (ABR)”, Int. J. Sustainable Water and Environmental Systems, 2011, 2, 117 – 122.
51. Aboubakr M. Abdullah, Mahmoud M. Saleh, Mohamed I. Awad, Takeyoshi Okajima, Fusao Kitamura and Takeo Ohsaka, Temperature effect on the recovery of  $\text{SO}_2$ -Poisoned GC/Nano-Pt electrode towards oxygen reduction, J. Solid St. Electrochem., 2010, 14 (9) 1727-1734, (IF = 2.446).

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### *Presentations in Conferences*



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6. H. A. Al-Kandari, A. M. Abdullah, A. M. Mohamed, and S. A. Al-Kandari, 3D/2D Nanocomposite Photocatalyst Materials for Phenolic Compounds Degradations. 232<sup>nd</sup> Electrochemical Society Meeting, October 1-5, National Harbor, Maryland, USA.
7. Titanium-based Catalysts in Photo Catalytic Treatment of Water Contaminated with Phenolic Compounds, H. Al-Kandari, A. M. Abdullah, A. M. Mohamed, and S. Al-Kandari. 9th Kuwait waste management conference and exhibition, April 25-26, 2017. Kuwait
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