CURRICULUM VITAE

Salah Salman

Associate Professor, Mining and Petroleum Engineering Dept., Faculty of Engineering, Al-Azhar University, Cairo, Egypt.

◆ PERSONAL DETAILS

Nationality:	Egyptian	
Marital status:	Married	
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◆ EDUCATION

- PhD in Materials Science and Engineering, March 2010, Nagoya University, Nagoya, Japan.
- M.Sc. Materials Science and Engineering, March 2007, Nagoya University, Nagoya, Japan.
- B.Sc., May 1999, Mining & Metallurgy Engineering, Al-Azhar University, Cairo, Egypt.

◆ EMPLOYMENT

April 2021-Present:	Visiting Associate Professor, Tokai National Higher Education and Research System, Nagoya University
June 2017-March 2021	Associate Professor, Faculty of Engineering, Mining & metallurgy Eng. Dept., Al-Azhar University, Cairo, Egypt.
May 2016 – June 2017	Assistant Professor, Faculty of Engineering, Mining & Petroleum Eng. Dept., Al-Azhar University, Cairo, Egypt.
May 2011 – March 2016:	Designated Assistant Professor, Institute of Materials and Systems for Sustainability, Nagoya University, Japan.
Nov. 2010 – May 2011	Assistant Professor, Faculty of Engineering, Mining & Petroleum Eng. Dept., Al-Azhar University, Cairo, Egypt.
April 2010 - Oct. 2010	Visiting researcher, EcoTopia Science Institute, Nagoya University, Japan.
Oct. 2009 – March 2010	Research Assistant, Nagoya University, Japan
June 2008 – March 2009	Research Assistant, Nagoya University, Japan
2001	Assistant Researcher, Faculty of Engineering, Mining & metallurgy Eng. Dept., Al-Azhar University, Cairo, Egypt.
2000	Lab Spec., Tabbin institute for metallurgical studies, Cairo, Egypt.
1999	Metallurgical Engineer, Egyptian Co. for metal industries, Cairo, Egypt.

◆ TEACHING EXPERIENCE

- **Graduate students**

  Materials Science and Engineering - Extractive Metallurgy - Chemical Engineering – Mining & Petroleum Industry
- **Postgraduate student**
- Advanced Extractive Metallurgy - Corrosion - Corrosion protection

◆ MAJOR RESEARCH FIELD

Material science and engineering - Surf-Interface Engineering – Biomaterials
Metal Electrochemistry - Corrosion Protection - Metal extraction – Hydrometallurgy - Physical metallurgy

◆ RESEARCH PROJECTS

- Research project about self-assembled monolayer (SAM) on AZ31 Mg alloy “KAKEMHI”
- Research fund about green coating "JFE 21st "Century Foundation”.

◆ PERSONAL SKILLS

- Organizational leadership skill
- Communication and contact skills
- Teaching, Research and Supervision skills
- Using of many experiments’ instruments related to metallurgy and electrochemistry
- Using of many instruments for metal characterization ex: scanning electron microscope; SEM, Energy-dispersive X-ray spectroscopy; EDX, and X-ray diffraction; XRD, X-ray Photoelectron Spectroscopy; XPS and etc.
- skills on several electrochemical instruments for traditional and advanced applications

◆ LANGUAGE PROFICIENCY

- Arabic: fluent, written and spoken (native tongue).
- English: fluent, written and spoken.
- Japanese: Good spoken

◆ AWARDS & SCHOLARSHIPS

- Scientific Mission to Nagoya University, awarded by Ministry of Higher Education and Scientific Research of Egypt with cooperation with Japan International Cooperation Agency (JICA)
- Best presentation award in the 2015 2nd International Conference on Advanced Materials, Mechanics and Structural Engineering (AMMSE 2015) September 18-20, 2015, Je-ju Island, South Korea.
- (2011) 5 years Research fund in EcoTopia Science Institute, Nagoya University, Japan

- Best poster presentation Award at the 118th Spring Meeting of the Japan Institute of Light Metals (May 22, 2010) (co-author).
- (2003- 2010) Japanese Government (Monbukagakusho) Scholarship (in Nagoya university.
- 2005-2010: RA and TA Awards throughout postgraduate study
- (2001) High technology of metal work's Training Course, awarded by the Japan International Cooperation Agency (JICA)

◆ SCIENTIFIC ORGANIZATION MEMBERSHIP

- International Society of Electrochemistry
- JSPS Alumni Association
- Egyptian Engineers Syndicate

◆ EDITORIAL AND REVIEW ACTIVITIES

- Managing editor of Journal of Al-Azhar University Engineering Sector
- Acta biomaterialia
- Journal of the Taiwan Institute of Chemical Engineers
- Applied Physics A
- Journal of Basic and Applied Research
- SN Applied Sciences
- Chemical Engineering Journal
- Journal of Material Science and Technology Research

◆ EXTRACURRICULAR ACTIVITIES

- Volunteer work: Founder and Chairman of “Bena Charitable Foundation"; Non-Profit Organization for social development in Egypt.
- Sports: Walking, Football, table tennis
- Social activities: participation in social and culture activities

PUBLICATIONS

1- Book chapters

1. Salman S., Gouda M.K. (2022) Sealing Treatments for Electrochemical Conversion Coatings. In: Saji V.S., Sankara Narayanan T.S.N., Chen X. (eds) Conversion Coatings for Magnesium and its Alloys. Springer,

Cham

- **ISBN: 978-3-030-89976-9**

. https://doi.org/10.1007/978-3-030-89976-9_24

2. Shamroukh AM.M., Salman S.A., Berends W., Abdel-Fadeel W.A., Abdel-Jaber G.T. (2020) Energy Saving in Hall–Héroult Cell by Optimization of Anode Assembly Design. In: Tomsett A. (eds) Light Metals 2020. The Minerals, Metals & Materials Series. Springer, Cham. https://doi.org/10.1007/978-3-030-36408-3_174
3. Salman S.A., Kim S., Kuroda K., Okido M. (2019) Influence of Amine Additives on the Electrodeposition of Aluminum from AlCl3-Dimethyl Sulfone Electrolytes. In: Chesonis C. (eds) Light Metals 2019. The Minerals, Metals & Materials Series. Springer, Cham
4. Salman S.A., Akira N., Kuroda K., Okido M. (2014) Formation of Self-Assembled Monolayer on Cerium Conversion Coated AZ31 Mg Alloy. In: Alderman M., Manuel M.V., Hort N., Neelameggham N.R. (eds) Magnesium Technology 2014. Springer, Cham
5. S A Salman, M. Okido, Anodization of magnesium (Mg) alloys to improve corrosion resistance, in: G-L Song (Eds.), Corrosion prevention of magnesium alloys, Woodhead Publishing, Cambridge, 2013, pp. 197-231.
6. Salman S.A., Kuroda K., Okido M. (2013) Formation of Vanadate Conversion Coating on AZ31 Magnesium Alloy. In: Hort N., Mathaudhu S.N., Neelameggham N.R., Alderman M. (eds) Magnesium Technology 2013. Springer, Cham
7. Salman S.A., Kuroda K., Saito N., Okido M. (2012) Effect of Sn4+ Additives on the Microstructure and Corrosion Resistance of Anodic Coating Formed on AZ31 Magnesium Alloy in Alkaline Solution. In: Mathaudhu S.N., Sillekens W.H., Neelameggham N.R., Hort N. (eds) Magnesium Technology 2012. Springer, Cham

2- Journal papers:

1. Mohammed Gouda, Salah Salman, Saad Ebied, Improvement in the microhardness and corrosion behaviour of Ti-14Mn biomedical alloy by cold working, Materials Research Express Journal, 9-1, 2022
2. Gouda, M.K., Salman, S.A., Ebied, S., ...Gepreel, M.A.H., Chiba, A.,Biocompatibility and corrosion resistance of low-cost Ti–14Mn–Zr alloys, Journal of Materials Research, 2021, 36(24), pp. 4883–4893

3. El-Fattah, H.A., Gouda, M.K., Salman, S., Elsayed, A., The effect of eggshell as a reinforcement on the mechanical and corrosion properties of mg-zn-mn matrix composite, Acta Metallurgica Slovaca, 2021, 27(4), pp. 180–184
4. T. Usami, S. A. Salman , K. Kuroda, M. K. Gouda, A. Mahdy, and M. Okido, Synthesis of Cobalt-Nickel Nanoparticles via a Liquid-Phase Reduction Process, Journal of Nanotechnology 2021(1):1-7.
5. Mahmoud Abbas, Salah Salman, Shaimaa Ali Abou El Ela, Corrosion Inhibition of Magnesium by Anodizing in Safe and Unsafe Alkaline Electrolytes, International Journal of Recent Technology and Engineering, p. 11479, 2019
6. R. M. Hassan, S. M. Ibrahim, S. A. Salman, H. D. Takagi, A Promising Water-Soluble Synthetic Polymer of High Efciency and Low Cost as Inhibitor for Inhibition of Metals Corrosion: Inhibition of Magnesium Corrosion by Poly (Ethylene Glycol) in Acidic Media, Journal of Bio- and Tribo-Corrosion, 2019
7. SA Salman, Sangjae Kim, Kensuke Kuroda, Masazumi Okido, Influence of Amine Additives on the Electrodeposition of Aluminum from AlCl3-Dimethyl Sulfone Electrolytes, Light Metals 2019, p. 115
8. K Nishinaka, SA Salman, K Kuroda, M Okido, Characterization and Structure Analysis of the Anodic Film Formed on AZ31 Mg Alloy in KOH Alkaline Solution with Various Additives, Key Engineering Materials, 786, p. 159, 2018
9. S. A. Salman, Study on the anodizing of AZ31 magnesium alloys in ethanol solution, Advanced Materials, Mechanical and Structural Engineering, CRC Press, p. 123, 2016
10. S. A. Salman, Study on the Anodic Oxide Films formed on Mg Alloys Using DC, AC Methods in Alkaline Solution, International Journal of Scientific & Engineering Research, 6-9, September-2015.
11. S. A. Salman, K. Kuroda, M. Okido, Effect of Anodizing Time on the Surface Morphology and Corrosion Resistance of AZ31 Magnesium Alloy, Science of Advanced Materials, 01/2015; 7(1).
12. S. A. Salman, T. Usami, K. Kuroda, M. Okido Synthesis and Characterization of Cobalt Nanoparticles Using Hydrazine and Citric Acid, Journal of Nanotechnology 01/2014; 2014:525193.
13. S. A. Salman, A. Nagata, K. Kuroda, M. Okido, Deposition of Self-Assembled Monolayer on Vanadate Conversion Coated AZ31 Mg Alloy, Mater. Sci. Forum, 783-786, pp. 1482-1487(2014).

14. Yun-Il Choi, S. A. Salman, K. Kuroda, M. Okido, Synergistic Corrosion Protection for AZ31 Mg alloy by Anodizing and Stannate Post-sealing Treatments, Electrochemica Acta, accepted paper, 2013.
15. S. A. Salman, K. Kuroda, M. Okido, Preparation and characterization of hydroxyapatite coating on AZ31 Mg alloy for implant applications, Bioinorganic Chemistry and Applications, 2013
16. Yun-Il Choi, Salah Salman, K. Kuroda, M. Okido, Improvement in corrosion characteristics of AZ31 Mg alloy by square pulse anodizing between transpassive and active regions, Corrosion Science, Volume 63, p. 5–11, 2012.
17. S. A. Salman, M. Okido, Self-assembled monolayers formed on AZ31 Mg alloy, Journal of Physics and Chemistry of Solids, Volume 73, 7, p. 863, 2012.
18. Qingming Liu, Debi Zhou, Kazuaki Nishio, Salah Salman, Ryoichi Ichino and Masazumi Okido. The Effect of Reaction Driving Force on Copper Nanoparticle Preparation by Liquid Phase Reduction Method. MRS Proceedings 2009, doi: 10.1557/PROC-1207-N07-02, Published online by Cambridge University Press 2011.
19. S. A. Salman, R. Ichino and M. Okido, a comparative electrochemical study of AZ31 and AZ91 magnesium alloy, International Journal of Corrosion, 10.1155, 2010.
20. S. A. Salman,R. Mori, R. Ichino and M. Okido, Effect of applied potential on the surface morphology and corrosion property of AZ31 magnesium alloy, Mater. Trans., 51, 6, 2010.
21. S. A. Salman, R. Ichino and M. Okido, Improved Corrosion resistance of AZ31 magnesium alloy by anodizing with co-precipitation of cerium oxide, Trans. Nonferrous Met. Soc. China, 19, 4, 2009.
22. S. A. Salman, R. Ichino and M. Okido, Influence of calcium hydroxide and anodic solution temperature on anti-corrosion property of anodising coatings formed on AZ31 Mg alloys, Surface Engineering, 24, 3, 2008.
23. S. A. Salman, R. Ichino and M. Okido, Anodizing with Co-precipitation of Nano-size Alumina on AZ31 Magnesium Alloy, Mater. Trans., 49, 5, 2008.
24. S. A. Salman, Ryoichi Ichino, and Masazumi Okido. Development of Cerium-based Conversion Coating on AZ31 Magnesium Alloy, Chem. Lett., 36, 8, 2007.

3- International conferences

1. S. A. Salman and M. K. Gouda International conference on engineering materials, metallurgy and manufacturing (ICEMMM 2021)16-17, December 2021, Characterization and corrosion performance of vanadium-based conversion coating on AZ31 magnesium alloy
2. S. A. Salman, Nagahiro Saito, INTERFINISH2020 20th world congress September 6-8 2021, Hight temperature cerium conversion coatings on AZ31 magnesium alloy.
3. AMM Shamroukh, SA Salman, W Berends, WA Abdel-Fadeel, Energy Saving in Hall–Héroult Cell by Optimization of Anode Assembly Design, Light Metals 2020, 1267-1277
4. S. A. Salman, 13th International Conference on Mining, Petroleum and Metallurgical Engineering, Nasr Academy-Suez, Egypt 25-27 October 2019.
5. Salman S.A., Kim S., Kuroda K., Okido M, the 142st TMS Annual Meeting and Exhibition, TMS 2019, Texas, San Antonio, USA.
6. A Shamroukh, D Hassen, A Ali, SA Salman, GT Abdel-Jaber, 4th international conference welding and failure analysis of engineering materials, 2018, Aswan, Egypt
7. K. Nishinaka, S. A. Salman, K. Kuroda and M. Okido, The International Conference on Materials Science and Engineering: Recent Advances and Challenges **(Icmse-Rac 2018)**, March, 2018, Burg El `Arab, Egypt.
8. S. A. Salman et al, international conference on materials and systems for sustainability, Sep. 2017, Nagoya, Japan
9. MO Kim Sangjae, Salah Salman, Yanjie Liang, Kensuke Kuroda, 19th Interfinish World Congress & Exhibition (Interfinish 2016)
10. S. A. Salman, Oguri Tetsuya, K. Kuroda and M. Okido, the 9th International Conference on advanced materials (THERMEC 2016), May 29 – June 3, 2016, Graz, Austria.
11. S. A. Salman, The 2015 2nd International Conference on Advanced Materials, Mechanics and Structural Engineering (AMMSE 2015) September 18-20, 2015, Je-ju Island, South Korea.
12. S. A. Salman, K. Nishinaka, K. Kuroda and M. Okido, 1st International Conference on Applications of Surface Science (ICASS) 27 - 30 July 2015, Shanghai, China.
13. S. A. Salman, K. Hikida, K. Nishinaka, K. Kuroda and M. Okido, ICMCTF*'15* - International Conference on Metallurgical Coatings & Thin Films. 20–24 April *2015.* San Diego, United States
14. S. A. Salman, N. Akira, K. Kuroda, M.Okido, TMS 2014 143rd ANNUAL MEETING & EXHIBITION, San Diego, California; Feb.2014.
15. S. A. Salman, A. Nagata, K. Kuroda, M. Okido, THERMEC'2013, Dec.Las Vegas, USA(2013)

16. S. A. Salman, K. Kuorda, M. Okido, The 1st International Conference on Surface Engineering (ICSE2013), Nov, Busan (Korea)(2013).
17. S. A. Salman, K. Kuroda, M. Okido, Magnesium Technology 2013, Proceedings of the 142st TMS Annual Meeting and Exhibition, TMS 2013, March, 3-7, 2013, Texas, San Antonio, USA.
18. Y. Choi, S. Salman, K. Kuroda, and M. Okido, The 29th International Korea-Japan Seminar on Ceramics, Nov. 21-24, 2012, Daegu, Korea
19. Y. Choi, S. Salman, K. Kuroda, and M. Okido, Pacific Rim Meeting on Electrochemical and Solid-State Science [PRiME], Honolulu, October 7-12, 2012.
20. S. A. Salman, Y.I. Choi, K. Kuroda, M. Okido, 9th International Conference on Magnesium Alloys and their Applications Proceedings, July 8-12, 2012, Vancouver, Canada.
21. S. A. Salman, K. Kuroda1, N. Saito, M. Okido, Magnesium Technology 2012, Proceedings of the 141st TMS Annual Meeting and Exhibition, TMS 2012, Marc, 11-15, 2012, Orlando, FL, USA.
22. Masazumi Okido, Salah Salman, THERMEC 2011, Quebec City, Canada, August 1 – 5, 2011.
23. S. A. Salman, R. Ichino and M. Okido. Spring ISE Meeting, Columbus, OH, USA, May 2 - 5, 2010.
24. Qingming Liu, Debi Zhou, Kazuaki Nishio, Salah Salman, Ryoichi Ichino and Masazumi Okido, MRS Proceedings 2009: 1207-N07-02 (6 pages)
25. S. A. Salman, R. Ichino and M. Okido. Ninth International Symposium on Biomimetic Materials Processing (BMMP-9), Nagoya, Japan, January 20-23, 2009.
26. S. A. Salman, R. Ichino and M. Okido, 17th World interfinish congress & exhibition, Busan, Korea, June 16-19, 2008.
27. S. A. Salman, R. Ichino and M. Okido, The first Japan-Egypt international symposium on science and technology, Tokyo, Japan, June 8-10, 2008.
28. S. A. Salman, R. Ichino and M. Okido. Seventh International Symposium on Biomimetic Materials Processing (BMMP-8), Nagoya, Japan, January 21– 24, 2008.
29. S. A. Salman, R. Ichino and M. Okido. Metals Processing and Manufacturing Conference (MPM), Cairo, Egypt, November 19-22, 2007.
30. S. A. Salman, R. Ichino and M. Okido. 58th Annual Meeting of the International Society of Electrochemistry, Banff, Canada, September 9-14, 2007.
31. S. A. Salman, R. Ichino and M. Okido. First Afro-Asian Conference on Advanced Materials Science and Technology, Cairo, Egypt, 13-16 November, 2006.

32. Jian-guang, Takeshi Okamoto, S. A. Salman, Ryoichi Ichino and Masazumi Okido. Spring ISE Meeting, Singapore, April 17 - 20, 2006.