

## CURRICULUM VITAE



Dr. Shafreeza Sobri  
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### Education

1. PhD, Chemical Engineering (Electrochemistry), 2006, University of Newcastle upon Tyne, UK
2. Bachelor, Chemical Engineering, 2001 Universiti Teknologi Malaysia, Malaysia

### Areas of Interest

1. Electrochemistry
2. Electrochemical Engineering
3. Water and Wastewater Engineering
4. Environmental Engineering
5. Air Pollution Engineering

### Professional Qualification/ Membership/ Affiliation

1. Associate Member, Institution of Chemical Engineers (IChemE)
2. Graduate Member, Board of Engineers Malaysia (BEM)

### Appointments

| Position  | Duration     |
|---|--------------|
| 1. Senior Lecturer, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM | 2009 to date |
| 2. Lecturer, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM        | 2006 – 2009  |
| 3. Tutor, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM           | 2002 - 2006  |

### Publications

#### Journals (30 recent journals)

1. M. J. Liew, **S. Sobri** and S. Roy, Characterisation of a Thiosulphate-Sulphite Gold Electrodeposition Process, *Electrochimica Acta*, Volume 51, Number 5, pp. 877-881 (2005).
2. **S. Sobri** and S. Roy, Gold Electrocrystallisation from a Spent Thiosulfate-Sulfite Electrolyte, *Journal of the Electrochemical Society*, Volume 152, Issue 9, pp. C593-C599 (2005).
3. G. Liew Abdullah, M. A. Mohd Salleh, M. K. Siti Mazlina, M. J. Megat Mohd Noor, M. R. Osman, R. Wagiran and **S. Sobri**, Azo Dye Removal by Adsorption Using Waste Biomass: Sugarcane Bagasse, *International Journal of Engineering and Technology*, Volume 2, Number 1, pp. 8-13 (2005).
4. **S. Sobri**, S. Roy, E. Kalman, P. Nagyp and M. Lakatos, Studies Related to Recovery of Gold from a Spent Thiosulphate-Sulphite Electrolyte, *ECS Transactions* 1 (13), pp. 37-42 (2006).
5. J. Jasni, N. Azis, H. Hizam, M. Z. A. Kadir, M. N. Mariun, S. B. M. Noor, **S. Sobri**; An Efficient Generalized Minimized Residual Simulation Technique for Continuation Power Flow Studies; *Asian Journal of Applied Sciences*, ISSN 1996-3343,; pp 1-11 (2008).
6. **Sobri**, S. Roy, E. Kalman, P. Nagyp and M. Lakatos, Growth of Gold Particles on Glassy Carbon from a Thiosulphate-sulphite Aged Electrolyte; *Pertanika Journal of Science. & Technology*, 16 (1), pp 41-48 (2008).

7. **S. Sobri**, S. Roy, E. Kalman, P. Nagyp and M. Lakatos, Growth of Electrodeposited Gold on Glassy Carbon from a Thiosulphate-Sulphite Electrolyte, *Surface and Interface Analysis*, Volume 40, Issue 3-4, pp 834-843 (2008).
8. **S. Sobri**, S. Roy, Nucleation Studies of Gold on Carbon Electrodes, *Journal of Engineering Science and Technology*, Volume 3, No. 1, pp 62-70 (2008).
9. Norlirubayah Mohd Nasir, Ting Teo Ming, Fakhru'l-Razi Ahmadun and **Shafreeza Sobri**, Decomposition And Biodegradability Enhancement Of Textile Wastewater Using A Combination Of Electron Beam Irradiation And Activated Sludge Process, *Water Science and Technology*, 62.1, pp 42-47 (2010).
10. F. Heidarpour, W. A. Wan Ab. Karim Ghani, A. Fakhru'l-Razi, **S. Sobri**, V. Heydarpour, M. Zargar, M. R. Mozafari, Nano Silver-Coated Polypropylene Water Filter: I. Manufacture By Electron Beam Gun Using A Modified Balzers 760 Machine, *Digest Journal of Nanomaterials and Biostructures*, Vol. 5, No. 3, pp 1049-1058 (2010).
11. F. Heidarpour, W. A. Wan Ab. Karim Ghani, A. Fakhru'l-Razi, **S. Sobri**, V. Heydarpour, M. Zargar, M. R. Mozafari, Nano Silver-Coated Polypropylene Water Filter: II. Evaluation of Antimicrobial Efficiency, *Digest Journal of Nanomaterials and Biostructures*, Vol. 5, No. 3, pp 1059-1066 (2010).
12. F. Heidarpour, W. A. Wan Ab. Karim Ghani, A. Fakhru'l-Razi, **S. Sobri**, V. Heydarpour, M. Zargar, M. R. Mozafari, Complete Removal of Pathogenic Bacteria from Drinking Water using Nano Silver-coated Cylindrical Polypropylene Filters, *Clean Technology Environmental Policy*, DOI 10.007/s10098-010-0332-2.
13. Amin Firouzi, **Shafreeza Sobri**, Faizah Mohd. Yasin and Fakhru'l-Razi Ahmadun, CH<sub>4</sub> and CO<sub>2</sub> Detection by using Carbon Nanotube-based Sensors, *Advanced Materials Research*, Vol 214 pp 482-489 (2011).
14. Amin Firouzi, **Shafreeza Sobri**, Faizah Mohd. Yasin and Fakhru'l-Razi Ahmadun, The Effect of CH<sub>4</sub> and CO<sub>2</sub> Exposure on Carbon Nanotubes Electrical Resistance, *Advanced Materials Research*, Vol 214 pp 655-661 (2011).
15. **S. Sobri**, A. H. M. Ali, Chemical Characterization of Printed circuit Board Wastewater, *IOP Conf. Series: Materials Science and Engineering* 17 (2011) 012021.
16. Masoumeh MoayeriKashani, Salman Masoudi Soltani, and **S. Sobri**, Treatment of a Malaysian Leachate Sample Using Electrocoagulation, *International Journal of Chemical Engineering and Applications*, Vol. 3, No. 1, February 2012
17. Noor Azilah Mohd Kassim, Siti Hasnawati Jamal, **Shafreeza Sobri**, Nurjahirah Janudin, Optimization of Synthesis of Carbon Nanotubes using Chemical Vapor Deposition Method, *Advanced Materials Research*, Vol 488-489 pp 1535-1539 (2012)
18. A. H. M. Ali, **S. Sobri**, Salmiaton A., Faizah M. Y., Recovery of Heavy Metals from Spent Etching Waste Solution of Printed Circuit Board Manufacturing, *Pertanika Journal of Science and Technology*, 21 (1), 367-378 (2013)

#### Conference Proceedings (30 recent Conference Proceedings)

1. **S. Sobri**, S. Roy, E. Kalman, P. Nagyp and M. Lakatos, Growth of Gold Particles on Glassy Carbon from a Thiosulphate-sulphite Aged Electrolyte, *Proceedings of World Engineering Congress 2007*, 99 277-281 (2007).
2. **S. Sobri** and S. Roy, Nucleation Studies of Gold on Carbon Electrodes, *Proceedings of Symposium of Malaysian Chemical Engineers (SOMChE) 2007*, 99 1-9 (2007).
3. **S. Sobri** and A. H. M. Ali, Chemical Characterization of Printed Circuit Board (PCB) Wastewater, *Conference On Advanced Materials And Nanotechnology* (2009)
4. F. Heidarpour, A. Wan Ab. Karim ghani, **S. Sobri**, M. Zargar, F. Ghorab, The Effect of Nano Silver Filter on Water Treatment, *Environmental Science and Technology Conference* (2009)
5. A. Halim, **S. Sobri**, Salmiaton A., Recovery of Heavy Metals from Spent Etching Waste Solution of Printed Circuit Board (PCB) Manufacturing, *International Conference on Environment* (2010)

#### Research Grants

| No | Project Title   | Amount (RM) | Year      | Source of Fund |
|----|---|-------------|-----------|----------------|
| 1. | Electrodeposition of Copper from Copper Sulphate Electrolyte                          | 10 000      | 2007-2008 | PLB UPM        |
| 2. | Investigation on Selective Metal Recovery from Printed Circuit Board (PCB) Wastewater | 80 500      | 2007-2009 | FRGS           |

### Research Grants

| No | Project Title  | Amount (RM) | Year      | Source of Fund |
|----|--|-------------|-----------|----------------|
| 3. | The Effect of Nanosilver Filter on Sewage Wastewater                   | 149 000     | 2009-2011 | RUGS           |
| 4. | Microwave Assisted Acid Extraction and Recovery of Metals from e-waste | 149 000     | 2011-2014 | UGS            |

### Awards/Recognition (Current)

| Num | Name of awards | Title  | Award Authority           | Award Type | Year |
|-----|----------------|--|---------------------------|------------|------|
| 1.  | Bronze Medal   | Pameran Rekacipta, Penyelidikan dan Inovasi (PRPI) | Universiti Putra Malaysia | University | 2007 |
| 2.  | Bronze Medal   | Pameran Rekacipta, Penyelidikan dan Inovasi (PRPI) | Universiti Putra Malaysia | University | 2010 |

### Professional Services/Consultation

| No | Year      | Title  | Authority              | Amount   |
|----|-----------|--|------------------------|----------|
| 1. | 2009-2013 | Working Group on Measurement and Characterization, Standards Management Department | SIRIM Berhad           | -        |
| 2. | 2013      | Monitoring of Sewage Treatment Plant   | D'Bumi Water Sdn. Bhd. | RM20 000 |

#### MS with thesis (Main Supervisor)

| No. | Name                 | Title  | Status    |
|-----|----------------------|--|-----------|
| 1.  | Amin Firouzi         | CH <sub>4</sub> and CO <sub>2</sub> Detection by using Carbon Nanotube-based Sensors | Graduated |
| 2.  | Abd Halim b. Md. Ali | Selective Metal Recovery from Printed Circuit Board (PCB) Wastewater                 | Graduated |
| 3.  | Nurjahirah Januddin  | Synthesis of Carbon Nanotubes for Detection of Volatile Organic Carbon (VOCs)        | Graduated |

#### MS without Thesis (Main Supervisor)

| No. | Name                           | Title   | Status    |
|-----|--------------------------------|---|-----------|
| 1.  | Low Kian Yung                  | A Study On Air Pollution Trend In Klang Valley By Using GIS Modelling                         | Graduated |
| 2.  | Noor Azman b. Mohd Abdul Wahid | Removal Of Ammonia From POME Using Electrochemical Oxidation                                  | Graduated |
| 3.  | Hafizah Nur Kamaruzzaman       | A Water Quality Monitoring Study For The Town Of Sungai Buloh Selangor                        | Graduated |
| 4.  | Nur Syuriati Mohd Shamsudin    | Optimization Of The Extraction Process Of Active Coagulation Agent From Jathropa Curcas Seeds | Graduated |
| 5.  | Nurul Haryani Che Noh          | Microwave Pyrolysis Treatment Of Different Sewage Sludge                                      | Graduated |
| 6.  | Masoumeh Moayerikashani        | A Study Of Leachate Treatment Using Electrocoagulation  | Graduated |
| 7.  | How Mei Ling                   | Treatment Of Electronic Process Wastewater By Electrocoagulation Method                       | Graduated |

| <b>No.</b> | <b>Name</b>             | <b>Title</b>  | <b>Status</b> |
|------------|-------------------------|---|---------------|
| 8.         | Rabialtuladawiyah Dania | Performance Of Activated Carbon From Rambutan Seed For Automotive Industry Wastewater Treatment | Graduated     |
| 9.         | Tan Wei Quan            | Indoor Air Quality And Sick Building Syndrome In Core Laboratory Malaysia                       | Graduated     |
| 10.        | Chan Pei Shee           | Adsorption Of Cadmium Using Cation-Exchange Resin   | Graduated     |
| 11.        | Noor Syahida Husin      | Utilization Of Pineapple Peel As Adsorbent For The Removal Of Chromium From Wastewater          | Graduated     |
| 12.        | Mohd Aizuddin Mohd Ayob | Chemical Exposure Monitoring In Plastic Industry  | Graduated     |