Prof. Dr. Samer Al-Gharabli
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Curriculum Vitae

Personal Information

Date of Birth and Place	12.02.1974 in Amman, Jordan
Marital Status	Married
Nationality	German and Jordanian

Education

04/2002	**Ph.D. Chemistry,** Universität Tübingen, Tübingen, BW, Germany
9/1995 – 6/1998	**M.Sc. Chemistry,** The University of Jordan, Amman, Jordan
9/1991 – 06/1995	**B.Sc. Chemistry,** Mu'tah University, Kerak, Jordan

Work Experience

12/2017 – present	**Full Professor,** Pharmaceutical and Chemical Engineering Department-School of Applied medical Sciences (SAMS), German Jordanian University.
4/2012 – 12/2017	**Associate Professor,** Pharmaceutical and Chemical Engineering Department-School of Applied medical Sciences (SAMS), German Jordanian University.
10/2008 – Present	**Exchange Coordinator,** Pharmaceutical and Chemical Engineering Department-SAMS, German Jordanian University.
9/2015 – 10/2016	**Visiting Professor**, Membrane and Sustainable Desalination Research Group, Department of Chemical and Environmental Engineering, Masdar Institute of Science and Technology, UAE.
6/2013 – 9/2015	**Vice Dean, School of Applied Medical Sciences,** German Jordanian University.
9/2013 – 3/2014	**Visiting professor,** Institute of Molecular and Technical Medicine at Furtwangen University of Applied Sciences, Germany.
10/2014	**Visiting Professor,** Department of Chemistry and Biochemistry, Oxford University, Oxford, UK, "Protein crystallography", Prof. Schofield.
6/2007 – 7/2007	**Visiting Scientist,** University of California, Berkeley, USA "Total synthesis of morphine derivative", Prof. Peter Vollhard.
6/2006 – 9/2006	**Visiting Scientist,** University of Tübingen, Faculty of Pharmacy, Germany "Biomarkers", Prof. Machulla group.
2/2006 – 9/2009	**Establishing Head of Department,** Pharmaceutical and Chemical Engineering Department-SAMS, German Jordanian University.
10/2005 – 4/2012	**Assistant Professor,** Pharmaceutical and Chemical Engineering Department-SAMS, German Jordanian University.
2/2004 – 9/2005	**Scientific position,** Research Institute of Molecular Pharmacology (FMP), Department of Medicinal Chemistry, Berlin, Germany.
10/2002 – 1/2004	**Postdoctoral position,** Institute of Chemical Technology, Stuttgart University, Stuttgart, Germany
5/2002 – 9/2002	**Postdoctoral position**, graduate college Graduiertenkolleg 'Chemie in Interphasen' at Universität Tübingen, Tübingen, Germany.

Scholarships and Awards

6/2017 – 9/2017	**DFG fellow**, BioMEMS & Sensors NMI Naturwissenschaftliches und Medizinisches Institut an der Universität Tübingen, "Glucose sensors" Dr. Martin Stelzle.
2011/2012	**Excellent Teaching Award,** German-Jordanian university, Amman, Jordan.
2012	**HRH Prince Hassan Award,** (with others) for the Photovoltaic Desalination Project in Jordan Valley.

6/2012 – 9/2012	**DAAD fellow,** Center for Bioinformatics Saar, university of Saarbrücken, Germany "Efflux pumps", Prof. Helms group.
6/2010 – 9/2010	**DFG fellow,** Institute of Medicinal Chemistry, University of Leipzig, Germany "New polymers for solid phase peptide synthesis", Prof. Jörg Rademann group.
6/2009 – 9/2009	**DFG fellow,** Research Institute of Molecular Pharmacology, Berlin, Germany "Biological nano-vehicle", Prof. Jörg Rademann group.
6/2008 – 9/2008	**DFG fellow,** Research Institute of Molecular Pharmacology, Berlin, Germany "High loaded Cross-linked Polyvinylamine micro-beads as a novel supporting material towards Solid-Phase Peptide Synthesis and polymeric reagents" Jörg Rademann group.
2002	**The Graduate College (Chemie in interphases),** Universität Tübingen, Germany.

Memberships

7/2017 – Present	NAMS - North American Membrane Society.
6/2017	Member of the scientific committee of the 5th International Scientific Conference on Pervaporation, Vapor permeation and Membrane Distillation Reviewer for many scientific journals

Research interest

Multidisciplinary research interest to integrate chemistry, chemical biology, and bioinformatics to design novel materials for health applications in particular continuous glucose monitoring sensors. Moreover, I am working on the development of smart membrane for the separation of glucose molecules to increase sensor selectivity and sensitivity.

Funded Research Projects

- "Smart materials" - magnetic hybrid separation materials with controlled properties - formation, biomimicry, characterization, and application, 2018 (co-investigator), National Science Centre Poland **273000 USD**
- Biomimetic membranes for selective glucose transport based on functionalized carbon nanotubes, 2017, **7000 USD**
- Solidification of hazardous wastes and industrial water treatment using inorganic polymerization techniques, 2011, **124000 USD**
- Development and utilization of solar driven water pumping and desalination units for the application in the remote area in Jordan, 2010 – 2015, **273000 USD**
- Utilization of oil Shale as a source of energy in Jordan; direct burning and shale oil Extraction Phase I, 2010, **352000 USD**
- Synthesis of peptides and peptidyl precursor for PET (Positron Emission tomography) biomarkers, 2008, **6000 USD**
- 3D protein structure prediction, **17000 USD**

Training

- **SEM**, Scanning electron microscopy
- **TEM**, Transmission electron microscopy
- **AFM**, Atomic Force Microscopy
- **IR & Raman**, infrared and Raman spectroscopy
- **NMR**, Nuclear magnetic resonance liquid and solid state MAS-NMR
- **HTS**, high-throughput-screening for drug discovery
- Membrane characterization laboratory, porosity, permeability, tensile strength, etc.
- HPLC-MS, GC-MS
- Confocal microscopes and Elisa readers
- Light scattering for particle size determination

Teaching

Training course

"Write a winning proposal" an intensive training course. I was assigned by the higher council of science and technology in Jordan to train the academic staff how to find and apply to several international funding agencies.

Graduate courses

Advanced NMR course, graduate student, FMP Berlin, Germany
Gene and protein therapy, Jordan university of science and technology, Jordan

Under graduate courses

General Chemistry, Medicinal Chemistry, Pharmaceutical Organic Chemistry, Organic Chemistry, Biochemistry, Analytical Chemistry, Physical Chemistry, Graduation Projects

Industrial Experience

2014	**Faculty for factory program**, Automatic mixing and filling of ultrasound gels and other paramedical products according to GMP regulations, SANDRA corporation, Amman, Jordan. Part time consultation, (continuity).
2012	**Faculty for factory program**, Automatic mixing and filling of ultrasound gels and other paramedical products according to GMP regulations, Medical Scientific and Chemical corporation, Amman, Jordan. Part time consultation.
2011	**Faculty for factory program**, Development of Novel technology Coats, King Abdullah Design and Development Bureau, Zarqa, Jordan. Part time consultation.
2010	**Faculty for factory program**, Design and development of locally available natural materials for wastewater treatment in food processing industry, Nabil Company for Food Products, Amman, Jordan. Part time consultation.
2009	**Faculty for factory program**, Diagnosis and characterization of the active compound in the Tonigrow and investigate its mechanisim of action, The Jordanian Pharmaceutical Manufacturing Co. (Plc) (JPM), Naour, Jordan. Part time consultation.
2007	**Faculty for factory program**, Development of novel insulating paints from local natural resources, International coatings and specialist, Sahab, Jordan. Part time consultation.

University Service

The German Jordanian University was established in 2005, and I had the honor to participate in this project from the early begging, I am the 7th staff member appointed at that time. I had and still having a lot of duties concerning establishing the university in particular issues related to the school of applied medical sciences where laboratories are still under construction. Here is a list of some duties that I was involved in:

University strategies and operations, 2005
Participating in preparing the permanent location of the university in Madaba
Preparing and working on general university tenders
Member of the university council for the year 2006, 2014
Establishment of the chemical-pharmaceutical engineering program
Initiating the program study plan, courses, and laboratory materials
Setup laboratories, machines, and instrumentations
Design and run the experiments for undergraduate students
Insure local training of the students
Member of different committees at the university
Exchange officer and coordinator for the department
- Select partner universities in Germany and prepare MOU's with
- Prepare, select, and distribute our students to join one of the partner universities
- Follow-up students in their academic semester in Germany
- Support students in their internship training in one of the German industries
- Prepare course credit equivalency for our returnee students from Germany
- Coordinating flying faculty program which aims to invite German professors to give lectures at GJU

School council for academic years 2013/2014, 2014/2015, 2015/2016 and 2016/2017
School study plan committee
School accreditation committee
School faculty recruitment committee
School scientific research committee
School promotion committee member
Organizing network meeting with the German partners
German year committee
School appointment committee
School curriculum committee
Laboratory safety committee
Laboratory furnishing committee

Publications

Publications (H-index: 8, citation numers: 243 – according to Scopus)

1. **S.Al-Gharabli***, E. Hamad, M. Saket, Z. Abu El-Rub, H. A. Arafat, W. Kujawski, J. Kujawa, *Advanced material - ordered nano-tubular ceramic membrane covalently capped with single wall carbon nanotubes*, Materials (**2018**) (IF=3.2)
2. **S. Al-Gharabli***, W. Kujawski, Z. Abu El-Rub, E. M. Hamad, J. Kujawa*, Enhancing membrane performance in removal of hazardous VOCs from water by modified fluorinated PVDF porous material,* Journal of Membrane Science 556 (**2018**) 214-226 (IF=6.7)
3. T. A. Agbaje, **S. Al-Gharabli**, M. O. Mavukkandy, J. Kujawa, H. A. Arafat, PVDF/magnetite blend membranes for enhanced flux and salt rejection in membrane distillation, Desalination 436 (**2018**) 69–80. (IF = 6.6).
4. Elizalde, C. N. B.; **Al-Gharabli**, S.; Kujawa, J.; Mavukkandy, M.; Hasan, S. W.; Arafat, H. A., Fabrication of blend polyvinylidene fluoride/chitosan membranes for enhanced flux and fouling resistance. *Separation and Purification Technology* 190 (**2018**) 68-76. (IF = 3.4)
5. **Al-Gharabli, S**.; Kujawa, J.; Mavukkandy, M. O.; Agbaje, T. A.; Hamad, E. M.; Arafat, H. A., Covalent surface entanglement of polyvinylidene fluoride membranes with carbon nanotubes. *European Polymer Journal.*100 (**2018**) 153-164. (IF = 3.5)
6. **Al-Gharabli, S**.; Mavukkandy, M. O.; Kujawa, J.; Nunes, S. P.; Arafat, H. A., Activation of PVDF membranes through facile hydroxylation of the polymeric dope. *Journal of Material Research* 32 (**2017**) 4219-4231. (IF = 1.6)
7. **S. Al-Gharabli**, J. Kujawa, M. O. Mavukkandy, H. A. Arafat, Functional groups docking on PVDF membranes: Novel Piranha approach, European Polymer Journal, 96 (**2017**) 414-428 (IF= 3.5).
8. **S. Al-Gharabli**, W. Kujawski, H. A. Arafat, J. Kujawa, Tunable separation via chemical functionalization of polyvinylidenefluoride membranes using piranha reagent, Journal of Membrane Science 541 (**2017**) 567-579 (IF= 6.7).
9. J. Kujawa, **S. Al-Gharabli**, W. Kujawski, K. Knozowska, Molecular grafting of fluorinated and non-fluorinated alkylsiloxanes on various ceramic membrane surfaces for the removal of VOCs applying vacuum membrane distillation, ACS Applied Materials & Interfaces, 9 (**2017**) 6571-6590 (IF= 8.1).
10. M.O. Mavukkandy, M.R. Bilad, J. Kujawa, **S. Al-Gharabli**, H.A. Arafat, *On the effect of fumed silica particles on the structure, properties and application of PVDF membranes*, Separation and Purification Technology 187 (**2017**) 365-373 (IF = 3.4).
11. S. Chakraborty, S. Loutatidou, G. Palmisano, J. Kujawa, M. O. Mavukkandy, **S. Al-Gharabli**, E. Curcio, H. A. Arafat *Photocatalytic hollow fiber membranes for the degradation of pharmaceutical compounds in wastewater* Journal of Environmental Chemical Engineering 5 (**2017**) 5014–5024.
12. E.M. Hamad, N.A. Rawashdeh, M.F. Khanfar, E.N. Al-Qasem, **S.I. Al-Gharabli**, *Neural network based prediction of 3D protein structure as a function of enzyme family type and amino acid sequences* Jordan Journal of Biological Sciences 10 (**2017**) 73-78.
13. L.H. Tahtamouni, R.N. Abdellatif, R.A. Al-Khateeb, Z.A Al-Mazaydeh, S.R. Yasin, **S. I. Al-Gharabli**, A.Z. Elkarmi, *Inhibitory effect of Taraxacum officinale L (Compositae) aqueous root extract on spermatogenesis*, Tropical Journal of Pharmaceutical Research 16 (**2017**) 109-118 (IF = 0.659).
14. **S. Al-Gharabli**, P. Engeßer, D. Gera, S. Klein, T. Oppenlände, *Engineering of a highly efficient Xe_2*-excilamp (xenon excimer lamp, λ_{max}=172 nm, η=40 %) and qualitative comparison to a low-pressure mercury lamp (LP-Hg, λ=185/254 nm) for water purification*, Chemosphere 144 (**2017**) 811–815. (IF = 4.2)
15. A. Al-Halhouli, H. Qitouqa, N. Malkosh, A. Shubbak, **S. Al-Gharabli**, E. Hamad, *LEGO Mindstorms NXT for elderly and visually impaired people in need: A platform,* Technology and Health Care 24 (**2016**) 579-585 (IF = 1).
16. L. Tahtamouni, R. Al-Khateeb, R. Abdellatif, Z. Al-Mazaydeh, S.Yasin, **S. Al-Gharabli**, A. Elkarmi, *Anti-spermatogenic activities of Taraxacum officinale whole plant and leaves aqueous extracts*, Veterinary Research Forum 7 (**2016**) 89-97.
17. **S. Al-Gharabli**, M. Azzam, M. Addous, *Microwave-Assisted Extraction of Shale Oil from Jordanian Oil Shale*, Oil Shale Journal 32 (**2015**) 240 – 251 (IF = 1)
18. B.I. El-Eswed, R.I. Yousef, M. Alshaaer, I. Hamadnehd, **S.I. Al-Gharabli**, F. Khalili *Stabilization/solidification of heavy metals in kaolin/zeolite based geopolymers*, International Journal of Mineral Processing, 137 (**2015**) 34–42 (IF = 2).

19. **S. Al-Gharabli**, S. Al-Agtash, N. Rawashdeh, K. Barqawi, *Artificial Neural Networks for Dihedral Angles Prediction in Enzyme Loops: a Novel Approach*, International Journal of Bioinformatics Research and Applications 11 (**2015**), 153 – 163 (IF = 1).
20. M.O.J. Azzam, **S.I. Al-Gharabli**, M.S. Al-Harahsheh, *Olive mills wastewater treatment using local natural Jordanian clay,* Desalination and Water Treatment 53 (**2015**) 627-636 (IF = 1.6).
21. E. Chebouat, B. Dadamoussa, **S. Gharabli**, N. Gherraf, M. Allaoui, A. Cheriti, A. Lahham, A. Zellagui *Assessment of antimicrobial activity of flavonoids extract from Ephedra alata*, Der Pharmacia Lettre, 6 (**2014**) 27-30 (IF = 2).
22. M. Allaoui, A. Cheriti, **S. Al-Gharabli**, N. Gherraf, E. Chebouat, B. Dadamoussa, A. Al-Lahham, *A Comparative Study of the Antibacterial Activity of Two Chenopodiaceae: Haloxylon scoparium (Pomel) and Traganum nudatum Del*, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5 (**2014**), 85-89 (IF = 0.35, citations: 5).
23. A. El-Dahshan, **S. I. Al-Gharabli**, S. Radetzki, T. H. Al-Tel, P. Kumar, J. Rademann, *Flexible, polymer-supported synthesis of sphingosine derivatives provides ceramides with enhanced biological activity*, Bioorganic & Medicinal Chemistry 22 (**2014**) 5506-5512 (IF = 2.93, citations: 4).
24. Ahsanullah, **S. I. Al-Gharabli**, J. Rademann, *Soluble Peptidyl Phosphoranes for Metal-Free, Stereoselective Ligations in Organic and Aqueous Solution*, Organic Letters 14 (**2012**) 14–17 (IF = 6.5).
25. L. Zhua, S. Georgea, M. F. Schmidt, **S. I. Al-Gharabli**, J. Rademann, R. Hilgenfeld, *Peptide aldehyde inhibitors challenge the substrate specificity of the SARS-coronavirus main protease*, Antiviral Research, 92 (**2011**) 204–212 (IF = 4.3).
26. R. M Obaidat, K. Sweidan, W.Al-Rajab, M. Khanfar, R. Abu-Hwaij, Y. Al-Hiari, **S. Al-Gharabli**, *Development of local, mucoadhesive, sustained release patches of tetracycline hydrochloride for treatment of mouth infections: a preliminary in vitro study*, European Journal of Parenteral & Pharmaceutical Sciences 15 (**2010**) 87-94 (IF = 0.42).
27. **S. Al-Gharabli**, N. Al-Rifai, H. A. Saadeh, I. M. Mosleh, M. S. Mubarak, *Solid Phase Synthesis and Antiparasitic Activity of a Library of Peptidyl Metronidazoles*, Jordan Journal of Chemistry 5 (**2010**) 139-147.
28. R. Ghanem, H. Baker, M. Abu Seif, R. A. Al-Qawasmeh, A. Mataneh, **S. I. Al-Gharabli**, *Photochemical Transformation of Colchicine: Kinetic Study*, Journal of Solution Chemistry 39 (**2010**) 441-456 (IF = 1.3).
29. **S.I. Al-Gharabli**, *Determination of Glucose Concentration in Aqueous Solution Using ATR-WT-IR Technique*, Sensors, 9 (**2009**) 6254-6260 (IF = 2.7).
30. A. Monem M. Rawashdeh1, M. I. El-Barghouthi, K. I.Assaf, **S. I. Al-Gharabli**, *Complexation of N-Methyl-4-(p-Methyl Benzoyl)- Pyridinium Methyl Cation and its Neutral Analogue by Cucurbit[7]uril and β-Cyclodextrin. A Computational Study*, Journal of Inclusion Phenomena Macrocyclic Chemistry 64 (**2009**) 357–365 (IF = 1.1).
31. **S. Al-Gharabli**, S. T. Ali Shah, J. Rademann, S. Weik, *An efficient method for the synthesis of peptide aldehyde libraries employed in the rational evolution of SARS-protease inhibitors*, ChemBioChem 7 (**2006**) 1048-1055 (IF = 2.8).
32. I. Warad, **S. Al-Gharabli**, A. Al-Labadic, A. Abu-Rayyanb *Synthesis, characterization and NMR studies of novel hemilabile neutral and dicationic palladium(II) complexes: Pd(η^2-$Ph_2PCH_2CH_2OCH_3)_2$ and Pd(η^1-$Ph_2PCH_2CH_2O$-$CH_3)_2$diamine by using ether-phosphine ligand,*. Journal of Saudi Chemical Society 9 (**2005**) 507-518 (IF = 3.136).
33. R. J. Abdel-Jalil, M. Khanfar, **S. Al-Gharabli**, M. El-Abadelah, K. Eichele, M. Usman Anwer, W. Voelter *High Throughput Synthesis of Pyrazolozpyrimidines via Copper-Cataysed Cyclyzation and X-ray Study*, Heterocycles 65(**2005**) 1821-1827 (IF = 1).
34. R. J. Abdel-Jalil, M. Khanfar, K. Abu-Safieh, **S. Al-Gharabli**, M. El-Abadelah, W. Voelter, *An Efficient One-Pot Synthesis of Pyrazolopyrimidines,Intermediates for Potential Phosphodiesterase Inhibitors*, Monatshefte fuer Chemie 136 (**2005**) 619-624 (IF = 1).
35. E. Lindner, **S. Al-Gharabli**, I. Warad, H. A. Mayer, S. Steinbrecher, E. Plies, M. Seiler, H. Bertagnolli, *Supported organometallic complexes. XXXVI. Diaminediphosphineruthenium(II) interphase catalysts*

for the hydrogenation of α,β-unsaturated ketones, Zeitschrift fuer Anorganische und Allgemeine Chemie, 629 (**2003**) 161-171 (IF = 1).

36. C. Nachtigal, **S. Al-Gharabli**, K. Eichele, E. Lindner, H.A. Mayer, *Structural Studies of an Array of Mixed Diamine Phosphine Ruthenium(II) Complexes*, Organometallics, 21 (**2002**) 105-112 (IF = 3.9).
37. E. Lindner, **S. Al-Gharabli**, H..A. Mayer, *Supported organometallic complexes Part 31: diaminediphosphineruthenium(II) precursor complexes for parallel synthesis in interphases*, Inorganica Chimica Acta 334 (**2002**) 113-121 (IF = 2).
38. K. A. K. Ebraheem, M.S. Mubarak, **S.I. Al-Gharabli**, *Synthesis and chelation properties of some new mannich condensation polymers containing a salicylaldoxime group*, Journal of Macromolecular Science, Pure and Applied Chemistry A 39 (**2002**) 217-229 .(IF =1).
39. V. Krishnan, M. Seiler, M. P. Feth, I. Warad, **S. Al-Gharabli**, E. Lindner, H. Bertagnolli. *EXAFS investigations on diamine(diphosphine) and diamine(ether-phosphine) ruthenium(II) complexes*, HASYLAB Annual Report 2002.
40. **S. I. Al-Gharabli**, K.A.K Ebraheem, M. S. Mohammad, *Synthesis and chelation properties of a new copper selective Mannich polymer containing a 2,4-dihydroxybenzaldoxime group*, Journal of Saudi Chemical Society 5 (**2001**) 399-406 (IF = 3).

Conferences

41. E. Hamad, G. Hawamdeh, N. Abu Jarad, O. Yasin, **S. Al-Gharabli**, "*Detection of Human Chorionic Gonadotropin (hCG) Hormone Using Digital Lateral Flow Immunoassay*", 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, honolulu, HI 17-21.07.**2018** IEEE EMBC-18. (oral presentation and conference paper)
42. J. Kujawa, W. Kujawski, A. Cyganiuk, **S. Al-Gharabli**, "*Properties of hydrophobized zirconia membranes in vacuum membrane distillation"*, XII Scientific Conference "Membranes and Membrane Processes in Environmental Protection" 52-53, ISBN 978-83-7880-544-1, Gliwice **2018**, Poland
43. J. Kujawa, W. Kujawski, A. Cyganiuk, **S. Al-Gharabli**, "*Properties of hydrophobized zirconia membranes in vacuum membrane distillation"*, XII Scientific Conference "Membranes and Membrane Processes in Environmental Protection" MEMPEP 2018, Zakopane, Poland, 13 – 16.06.2018 – (oral presentation)
44. **S. Al-Gharabli**, J. Kujawa, W. Kujawski, E. M. Hamad, "*How surface functionalization can influence membrane performance?"*, Euromembrane 2018, Valcencia (Spain) 9-13.07.**2018** – (poster presentation)
45. J. Kujawa, **S. Al-Gharabli**, W. Kujawski, Z. Abu El-Rub, E. M. Hamad, "*Fluorinated membranes, activated by Piranha reagent and grafted with fluoralkylsilanes and alkylsilanes for the removal of hazardous VOCs"*, Euromembrane 2018, Valcencia (Spain) 9-13.07.**2018** – (oral presentation)
46. T. A. Agbaje, **S.Al-Gharabli**, J. Kujawa, H. A. Arafat "*Synthesis of blend PVDF-magnetite membranes for applications in membrane distillation*" 10th International Desalination Workshop, Busan (Korea) 22-25.11.**2017** (oral presentation)
47. **S. Al-Gharabli**, W. Kujawski, J. Kujawa "*Smart materials based on activated PVDF for water purification*" 14th Membrane School, Wilga/Warsaw (Poland) 22-25.10.**2017** (poster presentation)
48. J. Kujawa, **S. Al-Gharabli**, W. Kujawski, H. Arafat "*Piranha activated PVDF membranes towards novel separation properties, characterization and application*" 11th International Congress on Membranes and Membrane Processes, San Francisco (USA) 29.07 – 4.08.**2017** (poster presentation)
49. **S. Al-Gharabli**, M. Saket, E. Hamad, H. Arafat, W. Kujawski, J. Kujawa "*Ordered nano-tubular ceramic membrane covalently capped with carbon nanotubes for selective separation of biological active compounds*" 11th International Congress on Membranes and Membrane Processes, San Francisco (USA) 29.07 – 4.08.**2017** (poster presentation)
50. **S. Al-Gharabli**, J. Kujawa, M.Mavukkandy, T.Agbaje, E. Hamad, H. Arafat "*Covalent surface entanglement of single walled carbon nanotube on polyvinylidene fluoride membranes*" 11th International Congress on Membranes and Membrane Processes, San Francisco (USA) 29.07 – 4.08.**2017** (oral presentation)
51. T. Agbaje, **S. Al-Gharabli**, J. Kujawa, H. Arafat "*Synthesis of PVDF membranes with magnetic nanoparticles for applications in membrane distillation*" 11th International Congress on Membranes and Membrane Processes, San Francisco (USA) 29.07 – 4.08.**2017** (poster presentation)

52. **S. Al-Gharabli**, E. Hamad "*Development of novel insulating paints from local natural resources*" XI Copernican International Young Scientists Conference, Torun (Poland) 28 – 30.06.**2017** (poster presentation)
53. E. M. Hamad, **S. Al-Gharabli** "*Microfluidic blood separation: enhancement of channel design, modeling and simulation*" XI Copernican International Young Scientists Conference, Torun (Poland) 28 – 30.06.**2017** (poster presentation)
54. J. Kujawa, **S. Al-Gharabli**, W. Kujawski, H. A. Arafat "*Tunable Separation in Membrane Distillation by Chemical Functionalization of Polyvinylidenefluoride Membranes Using Piranha Reagent*" 5th International Scientific Conference on Pervaporation, Vapor Permeation and Membrane Distillation, Torun (Poland) 20 – 23.06.**2017** (keynote lecture)
55. H. A. Arafat, **S. Al-Gharabli**, J. Kujawa, M. O.Mavukkandy "*Functional Groups Docking on PVDF Membranes Using a Novel Piranha - Reaction Approach*" International Conference Engineering With Membranes (EWM2017) - Recent Advances in Membrane Science and Technology InterContinental, Singapore 26-28.04.**2017** (oral presentation).
56. **S. Al-Gharabli**, J. Kujawa , M. O. Mavukkandy, H. A. Arafat, "*Novel activation techniques of PVDF flat sheet membranes*" 2017 MRS Spring Meeting & Exhibit - Emerging Membrane Materials for Sustainable Separations, Phenix, Arizona (USA), 18 -21.04.**2017**, (oral presentation - invited talk).
57. M. O. Mavukkandy, **S. Al-Gharabli**, J. Kujawa, S. Chakraborty, H. A. Arafat "*Chemical modification of poly(vinylidene fluoride) for hydrophilicity fine-tuning and anchoring sites creation on microporous membranes*" 16th Aachener Membran Kolloquium, AMK2016, Aachen (Germany), 2-3.11.**2016** (poster).
58. C. N. Baeza Elizalde, **S. Al-Gharabli**, J. Kujawa, S. Chakraborty, H. A. Arafat "*Integration of hydrophilic chitosan in PVDF membrane as enhancer for direct contact membrane distillation*" 16th Aachener Membran Kolloquium, AMK2016, Aachen (Germany), 2-3.11.**2016** (poster).
59. **S. Al-Gharabli** "*Reversible polymeric nano-beads as a dynamic gene delivery vehicle in cancer therapy*" Second Arab American Frontiers Symposium in Muscat (Oman) 13-15.12.**2014** (oral presentation).
60. **S. Al-Gharabli**, Z. Abu El-Rub, M. Khanfar "*High throughput screening of oil content in Jordanian oil shale using ATR-FTIR and refractive index techniques*" The Seventh Jordan International Chemical Engineering (JIChE 07) Conference, Amman (Jordan) 4-6.11.**2014** (oral presentation).
61. R. Abdel-Jalil, M. Al-Nuaimi, **S. Al-Gharabli**, "*$CuCl_2$-assisted oxidative cyclization of amidrazones derivatives*" American Institute of Chemical Engineers (AIChE) San Francisco (USA) November, **2006** (oral presentation).
62. **S. Al-Gharabli**, M. Khanfar, J. Rademann, "*Microwave - Assisted Syntheses of Peptide Isostere Libraries Employing Amino Acyl Ketenes*" Journal of Peptide Science, 10(s2), 1-85, 184. 3rd International and 28th European Peptide Symposium, Prague (Czech Republic) 5-10.09.**2004** (oral presentation).