

Prof. Dr. Samer Al-Gharabli

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## Curriculum Vitae

### Personal Information

Date of Birth and Place 12.02.1974  
Marital Status Married  
Nationality German, 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.

01/2013 – present **German Coordinator**, Projektbüro German Jordanian University an der Hochschule Magdeburg-Stendal, Magdeburg, Germany.

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**

- 2020 Award from Federation of Scientific and Technical Associations, Toruń Poland for innovative and original invention "Smart materials – Hybrid separation materials based on polyvinylidene fluoride (PVDF) with chemically attached chitosan"
- 2019 Innovation Leaders of Kuyavian-Pomeranian Region, Poland in 2019– award for the best academic innovation "Smart materials – Hybrid separation materials based on polyvinylidene fluoride (PVDF) with chemically attached chitosan"
- 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.
- 09/2019 - Present Polish Membrane Society
- 07/2018 - Present European Membrane Society
- 6/2017 Member of the scientific committee of the 5<sup>th</sup> 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 developing smart membranes to be employed in several industrial separation processes.

<b>Funded Research Projects</b>	<ul style="list-style-type: none"> <li>- 3-dimensional modification of the nanoarchitecture of polymeric membranes based on PVDF through the chemical attachment of chitosan Smart materials – intelligent separation materials on an activated polymer substrate with a defined nano-surface architecture” Incubator of Innovation + Polish Ministry of Science and Higher Education <b>25000 USD</b></li> <li>- "Smart materials" - magnetic hybrid separation materials with controlled properties - formation, biomimicry, characterization, and application, 2018 (co-investigator), National Science Centre Poland <b>273000 USD</b></li> <li>- Biomimetic membranes for selective glucose transport based on functionalized carbon nanotubes, 2017, <b>7000 USD</b></li> <li>- Solidification of hazardous wastes and industrial water treatment using inorganic polymerization techniques, 2011, <b>124000 USD</b></li> <li>- Development and utilization of solar-driven water pumping and desalination units for the application in the remote area in Jordan, 2010 – 2015, <b>273000 USD</b></li> <li>- Utilization of oil Shale as a source of energy in Jordan; direct burning and shale oil Extraction Phase I, 2010, <b>352000 USD</b></li> <li>- Synthesis of peptides and peptidyl precursor for PET (Positron Emission tomography) biomarkers, 2008, <b>6000 USD</b></li> <li>- 3D protein structure prediction, <b>17000 USD</b></li> </ul>
<b>Training</b>	<ul style="list-style-type: none"> <li>- <b>Synchrotron facility</b>, diamond, UK</li> <li>- <b>X-ray</b> single crystal</li> <li>- <b>SEM</b>, Scanning electron microscopy</li> <li>- <b>TEM</b>, Transmission electron microscopy</li> <li>- <b>AFM</b>, Atomic Force Microscopy</li> <li>- <b>IR &amp; Raman</b>, infrared and Raman spectroscopy</li> <li>- <b>NMR</b>, Nuclear magnetic resonance liquid, and solid-state MAS-NMR</li> <li>- <b>HTS</b>, high-throughput-screening for drug discovery</li> <li>- <b>Membrane characterization laboratory</b>, porosity, permeability, tensile strength, etc.</li> <li>- <b>HPLC-MS, GC-MS</b></li> <li>- <b>Confocal microscopes and Elisa readers</b></li> <li>- <b>Light scattering for particle size determination</b></li> <li>- <b>Clean Room Facility</b></li> </ul>
<b>Teaching</b>	<p><u>Training course</u> “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 on how to find and apply to several international funding agencies.</p> <p><u>Graduate courses</u> Advanced NMR course, graduate student, FMP Berlin, Germany Gene and protein therapy, Jordan university of science and technology, Jordan Supervising Master and Ph.D. Students</p> <p><u>Undergraduate courses</u> General Chemistry, Medicinal Chemistry, Pharmaceutical Organic Chemistry, Organic Chemistry, Biochemistry, Analytical Chemistry, Physical Chemistry, Graduation Projects</p>
<b>Industrial Experience</b>	<p>2014 <b>Faculty for factory program</b>, Automatic mixing and filling of ultrasound gels and other paramedical products according to GMP regulations, SANDRA corporation, Amman, Jordan. Part-time consultation, (continuity).</p> <p>2012 <b>Faculty for factory program</b>, 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.</p>

- 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 mechanism 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 had many duties concerning establishing the university, particularly 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 campus of the university

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

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

School curriculum committee

Laboratory safety committee

Laboratory furnishing committee

Organizing network meeting with the German partners

German year committee

**Patents**

1. **Samer Al-Gharabli**, Joanna Kujawa, Wojciech Kujawski, A method for producing hybrid hydrophobic-hydrophilic fluoropolymer separation materials, national patent application [WIPO ST 10/C PL432070], submitted December (2019)
2. **Samer Al-Gharabli**, Joanna Kujawa, Wojciech Kujawski, Eyad Hamad, Activation methods of inert polymeric material, particularly fluoropolymers, international patent application **WIPO ST 10/C PL.428315, [PCT/PL2018/000129] PCT patent**, submitted October (2018)
3. **Samer Al-Gharabli**, Joanna Kujawa, Wojciech Kujawski, Surface Nano-modification of separation materials to improve transport, separation, and anti-fouling properties, **WIPO ST 10/C PL428333, [PCT/PL2019/050077] PCT patent**, submitted October (2018).

**International prizes achieved for the patents**

*Awards of the 12th International Invention Fair in the Middle East, Kuwait 16-19.02.2020 for "A method for producing hybrid hydrophobic-hydrophilic fluoropolymer separation materials" and "Activation methods of inert polymeric material, particularly fluoropolymers"*

- gold medals of the expo;

*Awards of the International Invention & Trade Expo 2019 (London, UK).*

For the "Smart materials" - intelligent separation materials on an activated polymer substrate with defined surface nanoarchitecture "was granted with three awards:

- gold medal of the expo;
- the Diamond Special Award;
- the special prize of the World Association for Intellectual Property and Invention (WIIPA Special Award).

**Publications**

*The invention of "Smart materials", was showered with awards during the gala of the prestigious 7th Macao International Innovation and Invention Expo 2019 (10-13.10.2019)*

- gold medal of the expo;
- a special prize of the Organizers for the invention, which can support the reactivation of the "Silk Road" initiative called "Best Belt and Road Initiative Award" (cup)

**Publications (H-index: 16, citation numbers: 832)**

1. **S. Al-Gharabli**, J. Kujawa, W. Kujawski, Z. El-Rub, E. Hamad, Desalination through effective and durable materials with adjustable features, *Desalination* (2021) **Submitted (impact factor = 9.5)**.
2. J. Kujawa, M. Głodek, G. Li, **S. Al-Gharabli**, K. Knozowska, W. Kujawski, Highly effective enzymes immobilization on ceramics for separation processes: requirements for supports and enzyme, *Science of The Total Environment* 801 (2021) 149647 – Open Access (**impact factor = 7.9**)
3. T. A. Al Hujran, M. K. Magharbeh, **S. Al-Gharabli**, R. R. Haddadin, M. N. Al Soub, H.M. Tawfeek, Studying the Complex Formation of Sulfonatocalix[4]naphthalene and Meloxicam towards Enhancing Its Solubility and Dissolution Performance, *Pharmaceutics* (2021), 13(7), 994 (**impact factor = 6.3**)
4. J. Kujawa, M. Zięba, Wojciech, S. Al-Gharabli, W. Kujawski, A. Terzyk, Durable single walled carbon nanohorn - PVDF hybrid materials for improved desalination process, *Desalination* (2021) 115117 (**impact factor = 9.5**).

5. J. Kujawa, **S. Al-Gharabli**, T. Muzioł, K. Knozowska, G. Li, L. Dumée, W. Kujawski, Crystalline porous frameworks as nano-enhancers for membrane liquid separation – recent developments, *Coordination Chemistry Reviews* 440 (2021) 213969 (**impact factor = 22**).
6. **S. Al-Gharabli\***, B. Al-Omari, W. Kujawski, J. Kujawa How can the desert beetle and biowaste inspire hybrid separation materials for water purification? – *ACS Applies Materials and Interfaces* 13 (2021) 11268 - 11283 (**impact factor = 9.3**)
7. **S. Al-Gharabli\***, J. Kujawa, Molecular activation of fluoropolymer membranes via base piranha treatment to enhance transport and mitigate fouling – new materials for water purification - *Journal of Membrane Science* 624 (2021) 119105 (**impact factor = 8.7**)
8. J. Kujawa, **S. Al-Gharabli**, G. Wrzeszcz, K. Knozowska, R. Lagzdins, E. Talik, A. Dziedzic, P. Loulergue, A. Szymczyk, W. Kujawski, Physicochemical and magnetic properties of functionalized lanthanide oxides with enhanced hydrophobicity, *Applied Surface Science* 542 (2021) 148563 - (**impact factor = 6.2**)
9. J. Kujawa, M. Glodek, I. Koter, B. Ośmiałowski, K. Knozowska, **S. Al-Gharabli**, L. F. Dumée, W. Kujawski, *Molecular Decoration of Ceramic Supports for Highly Effective Enzyme Immobilization - Material Approach*, *Materials* 14 (2021), 201 (**impact factor = 3.0**)
10. **S. Al-Gharabli\***, B. Al-Omari, W. Kujawski, J. Kujawa, *Biomimetic hybrid membranes with covalently anchored chitosan – Material design, transport and separation*, *Desalination* 491 (2020) 114550 (**impact factor = 9.5**)
11. Z. Abu El-Rub, J. Kujawa, **S. Al-Gharabli**, *Pyrolysis Kinetic Parameters of Omari Oil Shale Using Thermogravimetric Analysis*, *Energies* 13(16) (2020) 4060 (**impact factor = 3.0**)
12. J. Kujawa, W. Kujawski, S. Cerneaux, G. Li, **S. Al-Gharabli\***, *Zirconium dioxide membranes decorated by silanes based-modifiers for membrane distillation – Material chemistry approach*, *Journal of Membrane Science* 596 (2020) 117597 (**impact factor = 8.7**)
13. Z. Abu El-Rub, J. Kujawa, E. Albarahmeh, N. Al-Rifai, F. Qaimari, **S. Al-Gharabli\***, *High Throughput Screening and Characterization Methods of Jordanian Oil Shale as a Case Study*, *Energies* 12(16) (2019) 3148 (**impact factor = 3.0**)
14. J. Kujawa, W. Kujawski, A. Cyganiuk, L. F. Dumée, **S. Al-Gharabli\***, *Upgrading of zirconia membrane performance in removal of hazardous VOCs from water by surface functionalization*, *Chemical Engineering Journal* 374 (2019) 155-169 (**impact factor = 13.3**)
15. Z. Abu El-Rub, E. Bramer, **S. Al-Gharabli**, G. Brem, *Impact of Char Properties and Reaction Parameters on Naphthalene Conversion in a Macro-TGA Fixed Char Bed Reactor*, *Catalysts* 2019, 9(4), 307 (**impact factor = 4.1**)
16. E. M. Hamad; **S. I. Al-Gharabli**; J. A. McLaughlin, *Sensitivity Enhancement of Point-of-Care for Cardiac Markers Detection using Micro-Impedimetric Immunosensor Arrays*, *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2019*, 8857546, 1119-1122
17. E. M. Hamad; B. Sawalmeh; A. Al Mhawsh; M. Mansour; M. Awad, A. T. Al-Halhouli, **S. I. Al-Gharabli**, *Investigation of Bifurcation Effect on Various Microfluidic Designs for Blood Separation*, *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2019* 8856380, 1097-1100
18. E. M. Hamad, G. Hawamdeh, N. Abu Jarrad, O. Yasin, **S. I. Al-Gharabli**, R. Shadfan, *Detection of Human Chorionic Gonadotropin (hCG) Hormone using Digital Lateral Flow Immunoassay*, *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2018*, 8513355, 3845-3848
19. **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) (**impact factor = 3.0**)
20. **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 (**impact factor = 8.7**)

21. 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. (impact factor = 9.5).
22. 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. (impact factor = 7.3)
23. **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. (impact factor = 4.6)
24. **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. (impact factor = 2.5)
25. **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 (impact factor = 4.6).
26. **S. Al-Gharabli**, W. Kujawski, H. A. Arafat, J. Kujawa, *Tunable separation via chemical functionalization of polyvinylidene fluoride membranes using piranha reagent*, *Journal of Membrane Science* 541 (2017) 567-579 (impact factor = 8.7).
27. 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 (impact factor = 9.3).
28. 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 (impact factor = 7.3).
29. 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 (impact factor = 5.9).
30. 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 (impact factor = 0.9).
31. 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 (impact factor = 0.7).
32. **S. Al-Gharabli**, P. Engeßer, D. Gera, S. Klein, T. Oppenlände, *Engineering of a highly efficient Xe<sub>2</sub>\*-excilamp (xenon excimer lamp,  $\lambda_{max}$ =172 nm,  $\eta$ =40 %) and qualitative comparison to a low-pressure mercury lamp (LP-Hg,  $\lambda$ =185/254 nm) for water purification*, *Chemosphere* 144 (2017) 811–815. (impact factor = 7.1)
33. 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 (impact factor = 0.8).
34. 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.
35. **S. Al-Gharabli**, M. Azzam, M. Addous, *Microwave-Assisted Extraction of Shale Oil from Jordanian Oil Shale*, *Oil Shale Journal* 32 (2015) 240 – 251 (impact factor = 1.3)

36. 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 (impact factor = 2).
37. **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 (impact factor = 1).
38. M.O.J. Azzam, **S.I. Al-Gharabli**, M.S. Al-Harashseh, *Olive mills wastewater treatment using local natural Jordanian clay*, Desalination and Water Treatment 53 (2015) 627-636 (impact factor = 1.2).
39. 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 (impact factor = 2).
40. 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 (impact factor = 0.35).
41. 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 (impact factor = 3.6).
42. 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 (impact factor = 6.1).
43. 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 (impact factor = 4.9).
44. R. M Obaidat, K. Sweidan, W.Al-Rajab, M. Khanfar, R. Abu-Hwajj, 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 (impact factor = 0.42).
45. **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 (impact factor = 1.0).
46. 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 (impact factor = 1.0).
47. **S.I. Al-Gharabli**, *Determination of Glucose Concentration in Aqueous Solution Using ATR-WT-IR Technique*, Sensors, 9 (2009) 6254-6260 (impact factor = 3.6).
48. A. Monem M. Rawashdeh<sup>1</sup>, 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  $\beta$ -Cyclodextrin. A Computational Study*, Journal of Inclusion Phenomena Macroscopic Chemistry 64 (2009) 357–365 (impact factor = 1.6).
49. **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 (impact factor = 3.2).
50. 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( $\eta^2$ -Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>)<sub>2</sub> and*

*Pd(η<sup>1</sup>-Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>O-CH<sub>3</sub>)<sub>2</sub>diamine by using ether-phosphine ligand*, Journal of Saudi Chemical Society 9 (2005) 507-518 (impact factor = 3.9).

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52. 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 für Chemie 136 (2005) 619-624 (impact factor = 1.5).
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