

Curriculum Vitae RESUMÉ
Sep 2020

Bassam A. Sweileh
Department of Chemistry
School of Science
The University of Jordan,
Amman 11942, Jordan
E-Mail: sweilehb@ju.edu.jo

CITIZENSHIP: Jordanian

MARITAL STATAS: Married

EDUCATION: Ph.D. Industrial Chemistry, University of Bologna, Bologna, Italy, November 1996.

M.Sc., Chemistry, University of Jordan, Amman, Jordan, January 1986.

B.Sc. Chemistry, University of Jordan, Amman, Jordan, June 1981.

Diploma of Scientific Secondary School Examination, Ministry of Education, Amman, Jordan, June 1977.

AWARDS: The University of Jordan one year Graduate Teaching Assistantship (1984) Jordan.

The University of Jordan Excellence Academic Award (1978) Jordan

TRAINING: Five day workshop on The Management of Hazardous Chemical and Biological Laboratory Wastes, National Research center, Dokki, Cairo, Egypt, December 2005.

Three-day workshop entitled: 5th Arab Cleaner Production Workshop, Royal Scientific Society RSS, Amman-Jordan, September 25-27, 2011.

EMPLOYMENT SUMMARY: University teaching at the associate professor rank since April 18, 2011 to present
University teaching at the assistant professor rank since March 2, 1997 to April 17, 2011.

EXPERIENCE SUMMARY:

March 1997 –
Present

Teaching applied chemistry, industrial chemistry, general chemistry, organic chemistry for non-chemistry majors, organic chemistry I for chemistry majors, and polymer chemistry courses and conducting polymer research on interchange reactions, metal chelating polymers, and synthesis of polymers from renewable resources.

Laboratory Instructor and Lecturer in Chemistry, Department of Chemistry, The University of Jordan, Amman, Jordan, March 1990 – November 1992.

Production Manager, The Arab Gas Industries, February 1986 – March 1990.

GRADUATE THESIS SUPERVISSION:

17 M.Sc. theses and 4 Ph.D. dissertations

LINKS:

Website of The University of Jordan: <http://eacademic.ju.edu.jo/Sweilehb/default.aspx>

Google Scholar: <https://scholar.google.com/citations?user=cSafiggAAAAJ&hl=ar>

Research gate: https://www.researchgate.net/profile/Bassam_Sweileh

PUBLICATIONS:

- [1] **Bassam A. Sweileh**, Basma M. Yaghi, Hani A. Y. Mohammad. Symmetric homopoly(ester carbonate) oligomers by melt polycondensation of diester diols with their diphenyl dicarbonates, *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*. Accepted on. [Nov. 15, 2020](#).

- [2] Fawwaz I. Khalili, **Bassam A. Sweileh**, Rana S. Massad, Eshraq Z. Aljamal, Removal of Pb(II), Zn(II), Sn(II) and Cu(N) ions from aqueous solutions by linear alternating poly(4,4'- biphenol oxalate) oligomer, *Jordan Journal of Chemistry*, Accepted, Aug. 4, 2020.
- [3] Ban H. Al-Tayyem, **Bassam A. Sweileh**, Synthesis, characterization and hydrolytic degradation of novel biodegradable poly(ester amide)s derived from isosorbide and α -amino acids, *Journal of Polymer Research*. Accepted on Jan. 29, 2020. [10.1007/s10965-020-2021-0](https://doi.org/10.1007/s10965-020-2021-0), Published online
- [4] Dalia K. Ali, Aya M. Al-Zuheiri, **Bassam A. Sweileh**, Green ion exchange bisfuranic polyamides by polycondensation with bio-based diamines, *Green Materials*, 8(1): 24–31. <https://doi.org/10.1680/jgrma.18.00091>.
- [5] Yousef A. Al-Dalahmeh, Fawwaz I. Khalili, Bassam A. Sweileh, Synthesis, characterization of poly(1,4-cyclohexanedimethylene oxalate) and the study of its metal uptake behavior towards Pb(II), Zn(II), and Cd(II) ions, *Journal of the Chemical Society of Pakistan.*, (2019), 41(3), 421-436.
- [6] Aisha N. Al-Blawi, Fawwaz I. Khalili and **Bassam A. Sweileh**; "Synthesis and characterization of poly(1,4-benzenedimethylene phthalate) and the study of its ability to sorb Pb(II), Cd(II), and Zn(II) ions", *Archive of Organic and Inorganic Chemical Sciences*, (2018), Vol.1(1), 1-17. AOICS.MS.ID.000101. DOI: [10.32474/AOICS.2018.01.000101](https://doi.org/10.32474/AOICS.2018.01.000101).
- [7] Dalia K. Ali; **Bassam A. Sweileh**; "Novel bio-based bisfuranic polyesters by interchange reactions between bisfuranic diester bearing pendent carboxylic acid group and bio-based dihydroxy compounds", *Journal of Polymers and the Environment*, (2018), 26(5), 1940-1949. DOI [10.1007/s10924-017-1091-5](https://doi.org/10.1007/s10924-017-1091-5).
- [8] Khalili Fawwaz; Alregeb Faten; **Sweileh Bassam**; "Removal of Pb(II), Cd(II) and Zn(II) ions using a new poly(1,3-cyclohexylene oxalate) polymer" *Research Journal of Chemistry and Environment*, (2017), 21(7), 25-36.
- [9] Dalia K. Ali; Aya M. Al-Zuheiri; **Bassam A. Sweileh**; "pH and reduction sensitive biobased polyamides derived from renewable dicarboxylic acid monomers and cystine amino acid", *International Journal of Polymer Analysis and Characterization (IJPAC)*, (2017), 22(4), 361–373. DOI:[10.1080/1023666X.2017.1298012](https://doi.org/10.1080/1023666X.2017.1298012).
- [10] Mazen Alshaaer, Mohammed H. Kailani, Nidaa Ababneh, Saida A. Abu Mallouh, **Bassam Sweileh**, Abdalla Awidi "Fabrication of porous bioceramics for bone tissue applications using luffa cylindrical fibres (LCF) as template" *Processing and Application of Ceramics*, (2017), 11(1), 13-20. DOI: [10.2298/PAC1701013A](https://doi.org/10.2298/PAC1701013A).

- [11] Faten M. Abu-Orabi; Mohammed H. Kailani; **Bassam A. Sweileh**; Mohammad Y. Mustafa; Mahmoud Al-Hussein; “Sulfonated polyimide copolymers based on 4,4'-diaminostilbene-2,2'-disulfonic acid and 3,5,3',5'-tetramethylbenzidine with enhanced solubility”, *Polymer Bulletin*, (2017), 74(3), 895-909.
DOI: [10.1007/s00289-016-1752-x](https://doi.org/10.1007/s00289-016-1752-x).
- [12] **Bassam A. Sweileh**, Fawwaz I. Khalili, Imad Hamadneh, and Ammar H. Al-Dujaili; “Synthesis and characterization of new Polyamides containing symmetrical and unsymmetrical thiadiazole rings”, *Fibers and Polymers*, (2016), 17(2), 166-173.
DOI: [10.1007/s12221-016-5400-8](https://doi.org/10.1007/s12221-016-5400-8).
- [13] Diya Alsafadi, **Bassam A. Sweileh** and Fawwaz I. Khalili “Preparation and characterization of hydroquinone based polyoxalate and its application in the removal of heavy metals from water”, *Journal of Advances in Chemistry*, (2014), 10(8), 3022-3036.
- [14] Omar F. Bashir, Fawwaz I. Khalili, **Bassam A. Sweileh**, “Combustion and emission characteristics of straight vegetable oils and diesel fuel blends”, *Jordan Journal of Chemistry*, (2014), 9(2), 134-147.
- [15] **Bassam A. Sweileh**, Hussam R. Al-Qalawi, Hani A. Mohammad “Synthesis and characterization of poly(ester carbonate)s by melt-phase interchange reactions of dihydroxy compounds with alkylene and arylene diphenyl dicarbonates containing ester groups”, *Journal of Applied Polymer Science*, accepted in the special issue on Green Polycarbonates, 2014, DOI: 10.1002/app.40081 (paper published online), no page number was assigned yet.. DOI: [10.1002/app.39904](https://doi.org/10.1002/app.39904).
- [16] Al-Qalawi, H. R.; **Sweileh, Bassam A.**; Kailani, M. H. “Synthesis and characterization of poly(ether carbonate)s by melt-phase interchange reactions of dihydroxy compounds with alkylene and arylene diphenyl dicarbonates containing ether groups”, *Journal of Applied Polymer Science*, (2012), 126(5), 1650-1663.
DOI: [10.1002/app.36945](https://doi.org/10.1002/app.36945).
- [17] Saleh, Suhair; **Sweileh, Bassam**; Taha, Sami; Taha, Mutasem "Metal ion/pyridinedicarboxylate polymer composites as inhibitors of bacterial biofilm formation", *Journal of Infection*, (2011), 63(6), Pages E8-E9.
- [18] Suhair Saleh, **Bassam Sweileh**, Sami O. Taha, Ruhaifa Mahmoud and Mutasem O. Taha “Preparation of polyester-based metal-cross linked polymeric composites as novel materials resistant to bacterial adhesion and biofilm Formation”, *Molecules* (2011), 16(1), 933-950. doi: [10.3390/molecules16010933](https://doi.org/10.3390/molecules16010933).
- [19] Ibrahim F. Abu-Awwad, Fawwaz I. Khalili, **Bassam A. Sweileh** “Preparation and characterization of poly(2,2-dimethyl-1,3-propylene oxalate) polymer and studying its metal uptake behavior toward Pb(II), Cd(II) and Hg(II) ions”, *Solvent*

- Extraction and Ion Exchange* (2010), 28(5), 682-705. DOI: [10.1080/07366299.2010.499295](https://doi.org/10.1080/07366299.2010.499295).
- [20] **Bassam A. Sweileh**, Yusuf M. Al-Hiari, Mohammad H. Kailani, Hani A. Mohammad, "Synthesis and characterization of polycarbonates by melt-phase interchange reactions of alkylene and arylene diacetates with alkylene and arylene diphenyl dicarbonates", *Molecules* (2010), 15(5), 3661-3682. DOI: [10.3390/molecules15053661](https://doi.org/10.3390/molecules15053661).
- [21] Kamal Sweidan, Ahmed Al-Sheikh, **Bassam Sweileh**, Mahmoud Sunjuk and Norbert Kuhn, "Synthesis of phosphorus, arsenic and antimony ylides containing the 1,3-dimethyl-2,4,6(1*H*,3*H*,5*H*)-pyrimidinetrione fragments", *Letters in Organic Chemistry* (2009), 6(1), 1-3.
- [22] Al-Hiari, Yusuf M.; **Sweileh, Bassam A.**; Ashok, Shakya, K.; Abu Sheikha, Ghassan; Al-muhtaseb Sabah A. "Synthesis of 1-Benzyl-1,2,3,4-tetrahydroisoquinoline, part I: Grignard synthesis of 1-(substitutedbenzyl)-1,2,3,4-tetrahydroisoquinoline models with potential antibacterial activity", *Jordan Journal of Pharmaceutical Sciences*, (2009), 2(1), 1-21.
- [23] **Sweileh, Bassam A.**; Al-Hiari, Yusuf M.; Aiedeh, Khaled M. "A new, nonphosgene route to poly(bisphenol-A carbonate) by melt phase interchange reactions of alkylene diphenyl dicarbonates with bisphenol A", *Journal of Applied Polymer Science*, (2008), 110(4), 2278-2292. DOI: [10.1002/app.28776](https://doi.org/10.1002/app.28776)
- [24] Al-Sheikh, Ahmad; Sweidan, Kamal; **Sweileh, Bassam**; Steimann, Manfred; Schubert, Hartmut; Kuhn, Norbert "Synthesis and crystal structure of triethylammonium 5-[(2,2-dimethyl-4,6-dioxo-1,3-dioxan-5-ylidene)(methylthio)methyl]-1,3-dimethylpyrimidine-2,4,6-trionate", *Zeitschrift Fuer Naturforschung, B: Chemical Sciences* (2008), 63(8), 1020-1022.
- [25] Sharif T. Al-Hamidi, **Bassam A. Sweileh**, Fawwaz I. Khalili, "Preparation and Characterization of Poly(bisphenol A oxalate) and Studying its Chelating Behavior Towards Some Metal Ions", *Solvent Extraction and Ionic Exchange*, (2008), 26(2), 145-162. DOI: [10.1080/07366290801925249](https://doi.org/10.1080/07366290801925249).
- [26] Al-Hamouz O. S., **Sweileh B. A.**, Al-Salah, H. A., "Synthesis and characterization of polycarbonates by melt phase interchange reactions with alkylene and arylene diphenyl dicarbonates", *Journal of Applied Polymer Science*, (2006), 102(4), 3597-3609. DOI: [10.1002/app.23996](https://doi.org/10.1002/app.23996).
- [27] AlKhatib, Hatim S.; Taha, Mutasem O.; Aiedeh, Khaled M.; Bustanji, Yasser; **Sweileh, Bassam**. "Synthesis and in vitro behavior of iron-crosslinked N-methyl and N-benzyl hydroxamated derivatives of alginic acid as controlled release carriers" *European Polymer Journal* (2006), 42(10), 2464-2474 [doi:10.1016/j.eurpolymj.2006.05.018](https://doi.org/10.1016/j.eurpolymj.2006.05.018).

- [28] Al-Hiari, Yusuf M.; **Sweileh, B. A.** "Novel synthesis and antimicrobial activity of 3,7-dimethylphenoxathiin nucleus and some related analogs" *Asian Journal of Chemistry* (2006), 18(3), 2285-2298.
- [29] Sweileh B. A. and AL-Hiari Y. M., "Synthesis and thermal properties of polycarbonates based on bisphenol A by single phase organic solvent polymerization", *Journal of Polymer Research*, (2006) 13(1), 181-191.
DOI: [10.1007/s10965-005-9024-8](https://doi.org/10.1007/s10965-005-9024-8).
- [30] Aiedeh K, Taha M O, **Sweileh B**, "Testosterone-succinate-dextran and testosterone-succinate-polyvinyl alcohol conjugates: Synthesis and testosterone release in plasma", *Acta Technologiae et Leges Medicamenti* (2001), 12(3), 267-281.
- [31] Berti C, Colonna M, Marianucci E, **Sweileh B**, and Pilati F. "A novel one-pot synthesis of esters by exchange reactions between carbonates and anhydrides". *Synthetic Communications* (1999), 29(6), 917-927.
<http://dx.doi.org/10.1080/00397919908086053>
- [32] Berti, C., Bonora, V., Fiorini, M, Pilati, F., **Sweileh B.**, "Thermal treatment of poly[ethylene-alt-2,2-bis(1,4-phenylene)propane carbonate]: A reinvestigation". *Macromolecular Chemistry and Physics* (1997), 198(2), 321-328.
DOI: [org/10.1002/macp.1997.021980208](https://doi.org/10.1002/macp.1997.021980208).

CONFERENCES:

- Bassam A. Sweileh, Dalia K. Ali, Aya M. Al-Zuheiri "Green Ion Exchange Polyamides Derived from Renewable Organic Compounds", *First International Conference of Chemistry and Biosciences (ICCB 2017) and the Fifteenth Jordanian Chemical Conference*, Organized by Faculty of Sciences, Al al-Bayt University, Association of Arab Universities and Jordanian Chemical Society, Mafraq-Jordan, April 5-6, 2017 (Poster)
- Basma M. Yaghi, Hassan G. Saleh, Bassam A. Sweileh "Polycarbonates Containing Sulfur Groups in the Main Chain by Melt Polycondensation of Dihydroxy Compounds with Diphenyl Dicarbonates Containing Sulfur Groups", *First International Conference of Chemistry and Biosciences (ICCB 2017) and the Fifteenth Jordanian Chemical Conference*, Organized by Faculty of Sciences, Al al-Bayt University, Association of Arab Universities and Jordanian Chemical Society, Mafraq-Jordan, April 5-6, 2017 (Lecturer)
- Hussam R. Al-Qalawi, **Bassam A. Sweileh**, Hani A. Mohammad "Synthesis and Characterization of Poly(ester carbonate)s by Melt-Phase Interchange Reactions

- of Dihydroxy Compounds with Alkylene and Arylene Diphenyl Dicarbonates Containing Ester Groups”, *The Fourteenth Jordanian Chemical Conference*, Al-Albait University, Al Mafraq-Jordan, April 8, 2015 (Lecturer)
- Al-Regeb, F; Al-Khalili, F.; **Sweileh, B.**, “Preparation and Characterization of Poly(1,3-cyclohexane oxalate) and the Study of its Uptake Characteristics Towards Pb(II), Cd(II) and Zn(II) ions”, *The 14th Jordanian Chemical Conference*, Al al-Bait University, Mafraq, Jordan, April, 8, 2015 (Lecturer)
- Bashir, O; Al-Khalili, F.; **Sweileh, B.**, “Assessment of Vegetable Oils Blended with Jordanian Diesel as Biodiesel Fuel”, *Building International Networks for Enhancement of Research in Jordan*, Amman, April, 3-5, 2014 (Poster)
- Ali, Dalia; **Sweileh, Bassam**, “Synthesis and Antibacterial studies of Some New Polymers Based on Pyridine-2,6-dicarboxyl Unit Prepared by Ring Opening Polycondensation”, *The International Conference of Young Chemists*, The University of Jordan, Amman, Jordan, April, 8-10, 2012 (Lecturer)
- Al-Regeb, F; Al-Khalili, F.; **Sweileh, B.**, “Synthesis and Characterization of Poly(1,3-cyclohexane oxalate) and the Study of its Adsorption Properties Towards Pb(II), Cd(II) and Zn(II) Ions”, *The International Conference of Young Chemists*, The University of Jordan, Amman, Jordan, April, 8-10, 2012 (Poster)
- Bashir, O; Al-Khalili, F.; **Sweileh, B.**, “Assessment of Vegetable Oils Blended with Jordanian Diesel as Biodiesel Fuel”, *The 2nd international conference on Alternative Energy- Biofuels 2012*, Dead sea-Jordan, Mach 26-27, 2012 (Lecturer)
- Dialogue of academia and private sector for the development of work force*, Le Meridien, Amman, Jordan, July 20, 2011 (Attendance)
- Hussam R. Al-Qalawi, **Bassam A. Sweileh**, “A New Route to Poly(ether carbonate)s by Melt-Phase Interchange Reactions with Alkylene and Arylene Diphenyl Dicarbonates”, *The Eleventh Eurasia Conference of Chemical Sciences*, The Dead Sea, Amman, Jordan, October 6-10, 2010 (Lecturer)
- Sweileh B. A.**, A-Hiari, Y. M., Kailani M. H., “Synthesis and Characterization of Polycarbonates by Melt-Phase Ester-Carbonate Interchange Reactions of Alkylene and Arylene Diacetates with Alkylene and Arylene Diphenyl Dicarbonates: A New Synthetic Approach”, *The ninth Jordanian Conference of Chemistry*, Zarqa-Jordan 9th JCC, April 28, 2009 (Lecturer)
- Sweileh B. A.**, A-Hiari, Y. M., Aiedeh, K. M. “A New Nonphosgene Route to Poly(bisphenol-A carbonate) by Melt Phase Interchange Reactions of Alkylene Diphenyl Dicarbonates with Bisphenol A”, *The Eighth Jordanian Conference of Chemistry*, Amman, Jordan 8th JCC, April 21, 2008 (Lecturer)

Diaa Al-Safadi, Ibrahim Abu Awwad, **Bassam Sweileh**, Fawwaz Al-Khalili, "Preparation and Characterization of Poly(neopentyl Oxalate) Polymer and Studying its Chelation Behaviour Toward Pb(II), Cd(II) and Hg(II) Ions", *The Second Jordanian Chemical Day*, Jordan University of Science and Technology (JUST), Irbid, Jordan, May 21, 2007.

Berti C., **Sweileh B.**, Pilati, F., Fiorini F. "Thermal Decomposition of Poly[ethylene-alt-2,2-bis(4-phenylene)propane carbonate]: New Conclusions" "Decomposizione Termica del Poli[etilene-alt-2,2-bis(4-fenilene)-propanocarbonato]: Nuove Conclusioni", 12th *Italian Conference on Science and Technology of Macromolecules*, Palermo, Italy, September 19-22, 1995.

Berti C., **Sweileh B.**, Pilati, F., "Reactive Blending of Bisphenol A Polycarbonate with Poly(propylene terephthalate) and with Poly(butylene terephthalate)" 6th *International Conference on Polymer Supported Reactions in Organic Chemistry (POC94)*, Venezia, Italy, June 19-23, 1994 (Poster).

BOOKS:

Hamdallah A. Hudali, Kamal I. Abu Dari, Bassam A. Sweileh, Malak I. Qadri "Laboratory Manual for Introductory Chemistry" 2008, Deanship of Academic Research, The University of Jordan, Amman, Jordan.

Hamdallah A. Hudali, Kamal I. Abu Dari, Bassam A. Sweileh, Malak I. Qadri "Laboratory Manual for General Chemistry" 2008, Deanship of Academic Research, The University of Jordan, Amman, Jordan.

REFERENCES:

Prof. Corrado Berti
Departmento di Chimica Applicata e Scienza dei Materiali
University of Bologna
Viale Risorgimento 2, 40136
Bologna, Italy
E-mail: corrado.berti@unibo.it

Prof. Francesco Pilati
Departmento di Ingegneria dei Materiali e dell'Ambiente
University of Modena and Reggio Emilia
Via Vignolese 905, I-41100
Modena, Italy
E-mail address: pilati.francesco@unimore.it

Prof. Fawwaz. Khalili
Department of Chemistry
University of Jordan
Amman 11942, Jordan

Tel.: (+962 6 5355000) Ext. 22142
Fax: (00962 6 5348932)
e-mail: F_khalili99@yahoo.com
Mobile : 962777423178

Prof. Musa. Abu Zarga
Department of Chemistry
The University of Jordan
Amman 11942, Jordan

Tel.: (+962 6 5355000) Ext. 22131
Fax: (00962 6 5348932)
e-mail: musaaz@yahoo.com
Mobile : 962795607852

Prof. Jalal Zahra
Department of Chemistry
The University of Jordan
Amman 11942, Jordan

Tel.: (+962 6 5355000) Ext. 22142
Fax: (00962 6 5348932)
e-mail: Zahra@ju.edu.jo
Mobile : 962791998431