

أ. د. لبنى عبد العزيز شيحا

السيرة الذاتية الموجزة (2020) والمنشورات

الإتصال

عنوان العمل

جامعة بنغازي، كلية العلوم، قسم الكيمياء
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الموقع الإلكتروني

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اللغات

العربية الفرنسية، و الإنجليزية

الخلفية

التعليم الجامعي

دكتورة في الكيمياء الفيزيائية

من جامعة ايرلندا الوطنية بدبلن

ماجستير في الكيمياء الفيزيائية

من جامعة هيريت – وات بادنبرة

دبلوم التحليل الكيميائي

من جامعة القاهرة بالقاهرة

بكالوريوس العلوم الكيميائية

من جامعة القاهرة بالقاهرة

التعليم المدرسي

مدارس السانت ان والسانت جوزيف، بالقاهرة

الملخص الأكاديمي

خبرتي في الكيمياء الفيزيائية تشمل الترموديناميك
الكيميائي، والكيمياء الكهربائية، وخواص المحاليل،
وظواهر الإنتقال.

ابحاثي مع بروف فتحي الأشهب في مجال
الكيمياء الفيزيائية البيولوجية، وتحديدًا في موضوع
التفصيل الإشعاعي لبوليمرات السكر في المحاليل.
ملف خدمتي يتضمن التوجيه الأكاديمي لشعبة
الكيمياء الفيزيائية.

الإنجاز الوظيفي

التدريس

- تدريس وتطوير مقررات الكيمياء الفيزيائية
- مؤلفة لكتابين تدريسيين عربيين

البحث العلمي

- الإشراف على 20 رسالة ماجستير
- نشر 21 ورقة بحثية في مجال اهتمامي البحثي
- نشر ورقتين بحثيتين في مجالات بحثية اخرى

الخدمة الإدارية

- المشاركة في تطوير البرامج الأكاديمية لقسم
الكيمياء
- تقييم العديد من البحوث والرسائل داخل وخارج
القسم
- تولي منصب الموجه الأكاديمي لشعبة الكيمياء
الفيزيائية
- عضو في هيئة بروفيسورات قسم الكيمياء

Prof Lobna Sheha

Resume (Concise CV) 2020 & Publications

Contact

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Language

Arabic, French, &
English

Background

College Education

Ph. D. Phys. Chem., UCD
M.Sc. Phys. Chem., H-W
Dep. Chem. Analysis, Cairo
B.Sc. Chem., Cairo

Cairo Schools

Saint Anne and Saint
Joseph

Academic Summary

I am a physical chemist with broad knowledge of chemical thermodynamics, electrochemistry, solution properties, and transport phenomena. I am doing my research with Prof. F. Elashhab. Our research lies in the area of biophysical chemistry: we are interested in tailoring polysaccharides in solution by irradiation to the applicants. My file service includes the chairmanship of physical chemistry section.

Career Highlights

Teaching

- Developed and taught physical chemistry courses
- Author of two Arabic teaching books

Research

- Supervised twenty MSc dissertations
- Twenty one published articles in the present area of research
- Two published articles in other different areas

Service

- Academic committee of the chemistry programs
- Academic director of the physical chemistry section
- Member in the chemistry professorship board

Prof Lobna Sheha

Twenty eight peer reviewed publications-Jan 2020

Biophysical Chemistry: Tailoring irradiated polysaccharides in solution

21. Elashhab F, **Sheha L**, Tahani A, Youssef A. Elsupikhe FR. Nanoscaled Polysaccharides in Solution: Scaling Laws of Hyaluronan. Nano Tech Appl. 2019; 2 (1), 1-4.
20. Elashhab F, **Sheha L**, Youssef A, Khalaf H, Salam M. Gamma modification of polysaccharides: controlling of pullulan molar masses. JOPAS. 2018; 17(1): 284-288.
19. Elashhab F, **Sheha L**, Abo-Eisa H, Tluba N, Elzawi N, Youssef AEA. UV-modification of iota-carrageenan in salt solution: thermodynamic parameters of activation. In: Elabbar FA, Eltaboni FB, editors. The role of chemistry in applied research and sustainable development. Proceedings of the 2nd Libyan Conference of Chemistry and Its Applications (LCC-2): 2017 May 9-11; Medical Faculties Compound. Benghazi: Benghazi University Press; 2017. p. 59-61.
18. Elashhab F, **Sheha L**, Al-mgbree S. Microwave modification of amylose polysaccharide: prediction of the scaling laws in alkaline solution. In: Elabbar FA, Eltaboni FB, editors. The role of chemistry in applied research and sustainable development. Proceedings of the 2nd Libyan Conference of Chemistry and Its Applications (LCC-2): 2017 May 9-11; Medical Faculties Compound. Benghazi: Benghazi University Press; 2017. p. 62-66.
17. Elashhab F, **Sheha L**, Alfazani T. UV modification of hyaluronan polysaccharide: the polyelectrolyte behavior in solution. In: Elabbar FA, Eltaboni FB, editors. The role of chemistry in applied research and sustainable development. Proceedings of the 2nd Libyan Conference of Chemistry and Its Applications (LCC-2): 2017 May 9-11; Medical Faculties Compound. Benghazi: Benghazi University Press; 2017. p. 67-70.
16. EL-Ashhab F, **Sheha L**, El-Zawi N, EL-Hashani A, El-Dali A, Eltaboni F, Youssef AEA, Tluba NA. Solution characteristics of microwave degraded iota-carrageenan. In: Proceedings of the First International Conference in Basic Science and Their Applications: 2014 October 29- November 1. Science Faculty Building. Al-Bayda: OMU Publisher; 2015. p. 85-94.
15. EL-Ashhab F, **Sheha L**, Abdalkhalek M, Khalaf HA. The influence of gamma irradiation on the intrinsic properties of cellulose acetate polymers. J Assn Arab Univ Basic Appl Sci. 2013; 14(1): 46–50.

14. EL-Ashhab F, **Sheha L**, EL-Hashani A, EL-Gzafi R, EL- Taboni E, EL-Supakhi R, Abo-Eisa H, EL-Hag M. Effect of UV-radiation on viscosimetric and conductometric properties of chitosan solution. J Sci App. 2010; 4(1):93-101.
13. EL-Ashhab F, **Sheha L**, EL-Hashani A, Abdalkhalek M. A sample manuscript: mass and volume of cellulose acetate solution before and after gamma irradiation. J Sci App. 2009; 3(1): vii-xii.
12. EL-Ashhab F, **Sheha L**, EL-Supakhi R, EL-Gzafi R, Abo-Eisa HM, EL-Taboni E. Polyelectrolytic behavior of chitosan in dilute solution before and after gamma irradiation. In: EL-Ashhab F, editor. Recent advances in chemistry and their applications. Proceedings of the 10th International Chemistry Conference and Exhibition in Africa: 2007 November 18-21. Science Faculty Building. Benghazi: Garyounis University press; 2009. p. 326-335.
11. EL-Ashhab F, **Sheha L**, Abo-Eisa H. Polyelectrolytic behavior of photodegradable xanthan solutions: part ii-conductivity change in aqueous solution. J Sci App. 2008; 2(1):77-82.
10. EL-Ashhab F, **Sheha L**, EL-Taboni E. Polarizability change in photodegradable MC aqueous solution. J Sci App. 2007; 1(2):102-107.
9. EL-Ashhab F, **Sheha L**, EL-Dali A, Abo-Eisa H. Viscosity changes and unperturbed dimensions of gamma degradable HEC in aqueous solution. AL-Nawah. 2007; 7(9):80-90.
8. EL-Ashhab F, **Sheha L**, Abo-Eisa H. Polyelectrolytic behavior of photodegradable xanthan solutions: part i-viscosity change in aqueous solution. J Sci App. 2007; 1(1): 66-71.
7. EL-Ashhab F, **Sheha L**, EL-Griany, Abo-Eisa H, EL-Taboni E, EL-Maghrabi A. Viscous behavior of xanthan in moderate aqueous salt solution before and after gamma irradiation. In: EL-Ashhab F, Mami AM, editors. Science and its applications. Proceedings of the Third GSF Symposium: 2006 June 3-4. Science Faculty Building. Benghazi: Garyounis University Publications; 2007. p. 324-331.
6. EL-Ashhab F, **Sheha L**, EL-Taboni E. Chain dimensions of aqueous methylcellulose in moderate concentration domain before and after photodegradation. In: EL-Ashhab F, Mami AM, editors. Science and its applications. Proceedings of the Third GSF Symposium: 2006 June 3-4. Science Faculty Building. Benghazi: Garyounis University Publications; 2007. p. 268-277.
5. EL-Ashhab F, **Sheha L**, Sheltami RM, Feituri ZM. Viscous behavior of dilute CMC salt solution before and after photodegradation. Qatar University Science Journal. 2006; 26:23-30.

4. EL-Ashhab F, **Sheha L**, EL-Dali A, Abdel Salam AE, Zubeir O, EL-Taboni E. Viscous behavior of aqueous hydroxyethylcellulose in moderate concentration domain before and after gamma irradiation. In: EL-Ashhab F, Mami AM, editors. New trends in science and their applications. Proceedings of the Second GSF Symposium: 2005 June 1-2. Science Faculty Building. Benghazi: Garyounis University Publications; 2006. p. 284-291.
3. EL-Ashhab F, **Sheha L**, EL-Griany N, Abo- Eisa H. Effect of gamma radiation on the cohesive properties of xanthan gum in dilute aqueous salt solution. In: EL-Ashhab F, Mami AM, editors. New trends in science and their applications. Proceedings of the Second GSF Symposium: 2005 June 1-2. Science Faculty Building. Benghazi: Garyounis University Publications; 2006. p. 243-249.
2. EL-Ashhab F, **Sheha L**, Sheltami R, Feituri Z. Degree of ionization for carboxymethylcellulose before and after UV-irradiation. In: EL-Ashhab F, Mami AM, editors. New trends in science and their applications. Proceedings of the Second GSF Symposium: 2005 June 1-2. Science Faculty Building. Benghazi: Garyounis University Publications; 2006. p. 211-216.
1. EL-Ashhab F, **Sheha L**, Zubeir O, EL-Dali A, Eid AE. Viscosity and related properties of dilute aqueous solution of MC before and after gamma irradiation. Egypt J Appl Sci. 2002; 17(1): 62-71.

Miscellaneous

3. EL-Ashhab F, **Sheha L**, Saeed AA, EL-Hashani AM, Muhammed HF, Eid, AE. Determination of the rate constants of non-catalytic and catalytic iodination of acetone by electrochemical methods. Egypt J App Sci. 2002; 7(11):446-453.
2. Saeed AA, EL-Ashhab FS, Mohammed HF, **Sheha L**. New charge acceptors in the charge-transfer processes. Egypt J App Sci. 2002; 45(3):527-538.
1. O'Neill RD, **Sheiha L**, Waghorne WE, Feakins D. A new method for determining ionic solvent transport numbers and free energy of transfer of electrolytes from water to mixed aqueous solvents. J Chem Soc D.1990; 99-100.

Textbooks

2. EL-Ashhab F, **Sheha L**, Najm T, EL-Saedi S, EL-Rabehi H, El-Mehdawe A. Foundations and experiments in physical chemistry (in Arabic). Benghazi: Garyounis University Publications; 2008.
1. EL-Ashhab F, **Sheha L**, Najm T. Chemistry: physical foundations and elementary principles (in Arabic). Benghazi: Garyounis University Publications; 2006.

Theses

2. **Sheha L.** Ph. D Thesis: Solvent transport by ion in dilute aqueous solutions. Dublin: NUI/UCD; 1989.

1. **Sheha L.** M. Sc. Thesis: Electron-impact induced fluorescence of molecules in the gas-phase. Edinburgh: Heriot-Watt University; 1982.