**Curriculum Vitae**

***Mahmoud***. ***M.*** ***Salman***

June 2021

**Personal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***Place of Birth*: Jordan** | C:\Users\dmt\Pictures\2016-12-13 001\IMG-20161213-WA0020.jpg |
| ***Date of Birth*** | ***5st august. 1972*** |
| ***Marital Status*** | Married |
| ***Nationality*** | Jordanian |
| ***Work Address*** | Department of Chemistry, College of Science, Al-Hussein Bin Talal University, Ma′an, Jordan. Phone: +962-3-2179000, E-mail: mahmoud salman@ahu.edu.jo |
| ***Academic Rank (date)*** | Professor (2019) |
| ***Permanent Address*** | ***Ar-ramtha - Jordan***. Cell Phone:+962-795400407, E-mail: mahmoud\_ salman2000@yahoo.com |

**Academic Qualifications \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| 2001 - 2005 | *Ph.D Degree in*  ***Physical Chemistry****, Faculty of Science, University of Jordan, Amman-Jordan, (August 2005).*  |
| 1997 - 2000 | *M.Sc Degree in* ***Physical Chemistry****, Faculty of Science, AL-Beat University, Mafraq-Jordan, (December 2000).* |
| 1990 – 1994 | *B.Sc Degree in* ***Chemistry****, Faculty of Science, Yarmouk University, Irbed-Jordan, (June 1994* |

**Specialty \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***General Specialization:*** | Chemistry |
| ***Specialization:*** | ***Physical*** Chemistry |

**Career History\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*2019-till date:* ***Professor, Dept of Chemistry, Al-Hussein Bin Talal University***

*2014-2019:* ***associatet Professor, Dept of Chemistry, Al-Hussein Bin Talal University***

*2012-2014:* ***Assistant Professor, Dept of Chemistry, Al-Hussein Bin Talal University***

*2009-2012:* ***Assistant Professor, Dept of Chemistry,*** ***Taif University- Saudi Arabia***

***1995-2003:*** Teacher , Seven –year experience in teaching Chemistry and Science at **Jordanian government schools**.

**Administrative Experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***Positions***  |
| January 2016-April 2017 | Chairman of chemistry Department, College of Science, Al-Hussein Bin Talal University,Ma'an, Jordan |

**Research Interest \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| * Spectroscopy (Infrared)
* Electrochemistry of organic, inorganic and polymer compounds
* Computational chemistry studies and modelling
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**Publications \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| 1. **[Adsorption of humic acid on bentonite](http://www.scirus.com/srsapp/sciruslink?src=sd&url=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%3F_ob%3DGatewayURL%26_origin%3DScienceSearch%26_method%3DcitationSearch%26_piikey%3DS0169131707000415%26_version%3D1%26_returnURL%3Dhttp%253A%252F%252Fwww.scirus.com%252Fsrsapp%252Fsearch%253Fq%253DAdsorption%252BBehavior%252Bof%252B%252BHumic%252BAcid%252B%252Bon%252B%252BBentonite%252BClay%2526ds%253Dbls%2526ds%253Dsd%2526ds%253Dmps%2526ds%253Dcps%2526ds%253Dcpp%2526p%253D0%2526drill%253Dyes%26md5%3Dc80b76839eb35d3c63224d0c47007353)** ,**Salman, Mahmoud / El-Eswed, Bassam / Khalili, Fawwaz**, *Applied Clay Science, 38 (1-2), p.51-56, Dec 2007.*
2. **Sono and Sonophotoctalysis for wastewater treatment**, *Der Chemica Sinica, 2012, 3(1): 129 -147.*
3. **Chemical studies on the uses of urea complexes to synthesize compounds having electrical and biological applications, journal of Molecular Structure(accepted)**
4. **Synthesis and infrared characterization of La(III), Y(III), Ce(III) and Sm(III) carbonate hydrates: urea precursor,** *Journal of Chemical and Pharmaceutical Research, 2012, 4(2).*
5. **Infrared spectroscopic investigations on the reaction products resulted from the interaction between silver(I) salts with urea at 90 oC,** *International Journal of Life science and Pharma Research, 2012, 2(2*).
6. **Infrared spectroscopic interpretations on the reaction products resulted from the interaction between Co(II), Cu(II), Fe(III), Mn(II), Ni(II) and Zn(II) phosphate salts with urea at 85 o C.** *Journal of Chemical and Pharmaceutical Research,2012,4(3): 1856-1863.*
7. **Application of multivariate statistical analyses in the differentiation between two phosphate ores from the Nuba Mountains, Sudan**. *International Journal of Enviromental Studies , 2012, 1-21, First Article***.**
8. **Chemical and Physical Studies on the Reaction Mechanism of Charge-Transfer Complexes Between Narcotic Drugs and Electronic Acceptors***, International Journal of electrochemical science, 8(2013),1274-1294.*
9. **Spectroscopic, Electrical Conductivity Measurements with Polystyrene Composites and Thermal Studies on Charge-Transfer Interactions Between bis(4-Amino-N-ethyl-1,8-Naphthalimide) Amine with Some Phenolic Acceptors,** *International Journal of electrochemical science, 8(2013),2863-2879.*
10. **Proton transfer complexes based on some π -acceptors having acidic protons with tyramine donor: Synthesis and spectroscopic characterizations,** *Journal of Chemical and Pharmaceutical Research,2013,5(3): 33-41.*

1. **Spectral studies to increase the efficiency and stability of laser dyes by charge-transfer reactions for using in solar cells:charge-transfer complexes of Ponceau S with p -chloranil,chloranilic and picric acids, *Research on Chemical Intermediates, 2013, 39(8).***
2. **New complexes of urea with Hg(II) and Ni(II) metal ions,** *Eur. Chem. Bull.* ***201****2, 1(6), 188-195***.**
3. **Synthesis and Spectroscopic Characterization of Zn(II), Cd(II), and Hg(II) Ciprofloxacin Complexes.** *Russian Journal of General Chemistry, 2014, Vol. 84, No. 9, pp. ????–????. © Pleiades Publishing, Ltd., 2014***.**

The crystal structure of ethyl 4-((2-hydroxybenzyl)amino)benzoate, a Schiff base, C16H17NO3,Zeitschrift für Kristallographie - New Crystal Structures, volume 232 , (4) , 2017.  15 ) Cooperative binding of Cadmium(II) on PVA-Bentonite complex in water, Der Chemica Sinica, 2015, 6(4):11-17.**16)-** Mahmoud Salman**, Ahmed M. Naglah,MohamedA.Al-Omar, Asma S. Al-Wasidi, Akram M. El-Didamony, Mohamed Y. El-Sayed, Hammad Fetooh, Eman S. E. Abd Moamen S. Refat, El-Mak Soud, Abdel Majid A. Adam and W. Abd El-Fattah**. 2019, **Synthetic, Spectroscopic, Thermogravimetric and Biological Studies of Some Lanthanide(III) and Th(IV) with Fluorescein Dye as a Complexing Agent,** Science of Advanced MaterialsVol. 11, pp. 808–816.17)- **Mahmoud Salman**, Abdel Aziz Abu-Yamin, Ibrahim Sarairah, Alhawarin Ibrahim and Murad A. AlDamen*.* **2017**, The crystal structure of ethyl 4-((2-hydroxybenzyl) amino)benzoate, a Schiff base, C16H17NO3. **Z. Kristallogr. NCS 2017; 232(4): 631–632***.*18)- **Mahmmod Salman,** Ayman Issa,Ibrahim A. M. Saraireh**,** Abdel Aziz Abu- Yamin**.**   **(2016).** "Synthesis and Spectroscopic Characterizations of Tris (hydroxymethyl)  aminomethane Proton Transfer Complexes with  Acidic π- Acceptors". ***Jordan Journal* *of Chemistry Vol.*** ***11 No. 2, 2016, pp. 85-98****.* 19) **-** Ibrahim A. M. Saraireh , Mohammednoor Altarawneh , Jibril Alhawarin, **Mahmoud Salman**, Abdel Aziz Abu-Yamin, and Randa Alasad.**2019**, Synthesis and Characterization of β- Diketimine Schiff Base Complexes with Ni(II) and Zn(II) Ions: Experimental and Theoretical Study. Hindawi Journal of Chemistry, Volume 2019.**20) -** **Abdel Aziz Abu-Yamin, Murad A. Al Damen, Mutasem O. Sinnokrot, Hassan K. Juwhari,** Mahmoud Salman**, Ibrahim Sarairah, Jibril Al-hawarin, and Mohammad S. Mubarak. Characterization, Crystal Structure And fluorescence Of A New Samarium Schiff-Base Complex,** Journal of Structural ChemistryVol. 59, No. 8, 2018 pp. 1935-1943.21)- Khaleel A. Abu-Sbeih, **Mahmoud Salman,** Idrees Al-Momani and Bassam El-Eswed.**2015**, **Cooperative binding of Cadmium(II) on PVA-Bentonitecomplex in water.** Der Chemica Sinica**, 2015, 6(4):11-17.**  |

**ConferencesAnd Proceedings \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Teaching\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***Courses Taught-undergraduate*** Itaught the following courses:* General Chemistry (I and II).
* General Chemistry Lab (I and II)
* Physicalchemistry (I and II).
* Quantum chemistry.
* Physicalchemistry Lab.
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**Skills\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| ***Languages*** |
| * Arabic (native)
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| * English (excellent)
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| ***Computer Programs*** |