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Birth: June 07, 1981
Nationality: Indian
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Sex: Male
Passport No.: P1083750
h-index: 18
Scopus citations: 1278
Number of Paper Published : 150

EDUCATION:

- **Doctor of Philosophy (Ph.D.)** from Jamia Millia Islamia (A Central University) New Delhi, India (awarded **Jun 2007**).

Ph. D. TITLE:

**Synthesis and Mechanistic Studies of Nitrogen, Oxygen and Sulphur
Containing Organic Compounds**

RESEARCH EXPERIENCE SUMMARY:

- Working on synthesis of new antibiotic drugs, characterization of the new synthesized compounds and evaluation of biological activity.
- 10 Years of Research Experience on “**Heterocyclic Compound**”.

TEACHING EXPERIENCE:

- Working as a Professor in the Physical section, School of Sciences, Maulana Azad National Urdu University since 09.07.2020.
- Worked as an Associate Professor in the Department of Chemistry, King Abdul-aziz University, Jeddah, Saudi Arabia, since 01.01.2014 to 23.06. 2020
- Worked as an Assistant Professor in the Department of Chemistry, King Abdul-aziz University, Jeddah, Saudi Arabia, since 18.02.2009 to 31.12.2013.
- Worked as an Assistant Professor in the Department of Chemistry, Integral University, and Luck now-UP India since 26. 07. 2008 to 13.02.2009

R & D EXPERIENCE:

- Worked as a Research Associate (RA) at Department of Chemistry, Punjabi University Patiala, Panjab, India since 01. 08. 2007 to 25. 07. 2008.

RESEARCH PROJECTS EXECUTED:

Title	:	Photochemical H-abstractions in some dialkoxy-anthraquinones
Executing Agency	:	Punjabi University Patiala, India
Funding Agency	:	Council for Scientific and Industrial Research Govt. of India.
Role	:	Research Associate

MAJOR CONTRIBUTIONS:

- Synthesis of heterocyclic compound, Pyrazoline pyrimidine
- Multi-step synthesis of hetrocyclic compounds
- One-pot multi component synthesis
- Synthesis of Donor $-\pi$ - acceptor chromophores
- Synthesis of thiazolo Quinoxaline Steroidal Compounds
- Synthesis of Steroidal Thiosemicarbazone Derivatives
- Synthesis of Steroidal Thiourea /Urea Derivatives
- Synthesis of Steroidal Metranidazole derivatives
- Synthesis of Palladium (II) Complexes of thiosemecarbazones
- In vitro Antibacterial of Steroidal Compounds
- In Vitro Anti- Amebic activity
- Kinetics Study of Thiourea
- Kinetics Study of Thioacetamide
- Kinetics Study of Carbohydrate (Glucose)
- Synthesis and Photochemistry of some chromones
- Synthesis and Photochemistry of some anthraquinon.
- Synthesis of some conjugated dienes
- Synthesis of some macro molecules
- Optical Properties of some organic compounds

TECHNIQUES KNOWN:

- **Handling of Instrument:** FTIR, UV, ^1H NMR, ^{13}C -NMR, Fluorescence,
- Interpretation of spectra IR, ^1H NMR, ^{13}C -NMR, Mass, CHN
- **Biological Techniques:**
 1. In vitro Studies using disk diffusion method
 2. Culture of bacteria
 3. Medium Preparations
 4. Working on in vitro models

AREA OF RESEARCH:

- Cholesterol, Stigmasterol, Heterocyclic Chemistry, Chromones, Chalcones, Anthraquinones, Photophysical, Physicochemical, Multi steps reactions, One pot multi component synthesis, Sensor, Nanoparticles

International collaboration

1. Prof. Michael B. Hursthouse

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7. Dr. Kamlesh Sharma

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School of Engineering & Technology, ITM University, Sector23A,

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8. Dr. Sanjay Kumar

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Multani Mal Modi College,
Patiala, 147001, Punjab,

India

9. Mohammed Yusuf

Department of Chemistry
Punjabi University, Patiala, Punjab

India

Reviewer as International Journal

1. European J. Med Chemistry
2. Journal of Coordination Chemistry
3. Pesticid Biochemistry and Physiology Scientia Pharmaceutica
4. Microbiology antimicrobials
5. European Journal of Chemistry
6. Arabian Journal of Chemistry
7. Medicinal Chemistry Research
8. Spectrochimica Acta Part A
9. Journal of Photochemistry and Photobiology B:
10. Journal of Heterocyclic Chemistry
11. Res Chem. Intermed.
12. Saudi journal of Chemical society
13. Dalton Transition
14. Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry
15. Journal of Molecular Liquid
16. Bioorganic Med Chemistry
17. RSC Advance
18. Synthetic Communications
19. Chemistry Select
20. Bioorganic Chemistry
21. Talanta
22. Dyes and Pigments
23. Journal of Fluorine Chemistry
24. Journal of Molecular structure
25. Future Medicinal Chemistry

No. of M. Sc Students (Thesis Supervision)

1: Hadi Mussa Basisi Awarded 2016

Synthesis, spectroscopic and physicochemical investigation of novel heterocyclic dyes

No. of Ph. D students (Thesis Supervision) : 2 Awarded

1: Saad H. Al-Thaqafy Awarded 2016

Title

Synthesis, Spectral studies and photovoltaic properties of some organic dyes

2: Al-anood Mohamed Al-Dies Awarded 2018

Title

Photochromic performance and photophysical studies of some photochromic compounds

Two student under supervision since 2016

Books published

1. Salman A Khan et al. Advances in Metallodrugs: Preparation and Applications in Medicinal Chemistry, *John Wiley & Sons, Edition April 2020* 250 Pages, ISBN: 978-1-119-64042-4

Book Chapter

1. **Salman A. Khan, et al., Polymer–Inorganic Nanocomposite and Biosensors 2018 Wiley-VCH Verlag GmbH & Co. KGaA. Published 2018 by Wiley (In Press)**

List of Publications :

1. MnO₂ in the reduction of permanganate by thiourea A Kinetic Study **Colloids Surf. A: Physicochem. Eng.** **302 (2007) 102-106.**
2. **Salman A. Khan** K. Saleem, Z. Khan, Synthesis, Characterization and in vitro antibacterial activity of new steroidal thiazozlo quinoxalines **European Journal of Med. Chemistry** **42 (2007)103-108.**
3. **Salman A. Khan, K. Saleem, Z. Khan,** Synthesis, Characterization and in vitro antibacterial activity of new steroidal 5-en- 7- thiazozlo quinoxalines, **European Journal of Med. Chemistry.** **43 (2008) 2257-2261.**
4. **Salman A. Khan, P. Kumar, R. Kumar, P. Iqbal, K. Saleem K,** Synthesis, Characterization and in vitro antibacterial activity of new steroidal thiosemicarbazone derivatives. **European Journal of Med. Chemistry** **43(2008)2029-2034**

5. **Salman A. Khan**, N. Shing, K. Saleem, Synthesis, Characterization and *in vitro* antibacterial activity of new steroidal thiourea and urea derivatives **European Journal of Med. Chemistry** **43** (2008) 2272-2277
6. **Salman A. Khan**, Synthesis, characterization and *in vitro* antibacterial activity of new steroidal 5-en-3-oxazolo and thiazoloquinoxalin, **European Journal of Med. Chemistry** **43** (2008) 2040-2044

Year 2009

7. **Salman A. Khan**, M. Yusuf, New Palladium (II) Complexes of Steroidal -6-one thiosemicarbazones and *In Vitro* antibacterial activity **European Journal of Med. Chemistry** **44** (2009) 2270-2274.
8. **Salman A. Khan**, A. M. Asiri, M. Yusuf, "Synthesis and biological evaluation of some thiazolidinone derivatives of steroid as antibacterial agents., **Eur. J. Med. Chem.** **44** (2009) 2597.
9. A. M. Asiri, G. A. Baghaffar, K. O. Badahdah, A. G. M. Al-Sehemi, **Salman A. Khan**, A. A. Bukhari, Multifunctional switches based on *bis*-imidazole derivative **J. Chem. Sci.**, **121** (2009) 983.

Year 2010

10. Synthesis, anti-bacterial activities of some novel Schiff bases derived from amino phenazone, A. M. Asiri and **Salman A. Khan**, **Molecules** 2010, 15(10), pp. 6850-6858.
11. Palladium(II) Complexes of NS Donor Ligands Derived from Steroidal Thiosemicarbazones as Antibacterial Agents. A. M. Asiri, **Salman A. Khan** **Molecules**. 2010; 15(7):4784-4791.
12. Synthesis and Electronic Spectra of some New N-(2-Hydroxy-1-Naphthylidene) Anils Derived from substituted 2-Aminothiophene , Abdullah M. Asiri,* Abdullah G. Al-Sehemi , Khadija O. Badahdah , Muhammed S. Al-Amoudi **Salman A Khan** and Abeer A. Bukhari, **Organic Chemistry Insight**, (2010), Vol. 3, Pp 1-8.
13. Antimicrobial studies of newly synthesized organotin(IV) complexes of dihydrobis(2-mercaptothiazolanyl)borate Rajkumar Joshi, Naushad Ahmad, **Salman A. Khan**, Athar Adil Hashmi **Journal of Coordination Chemistry** Vol. 63, No. 5, 10 March 2010, 906–915.

Year 2011

14. Synthesis, characterization and optical properties of mono- and bis-chalcone. Abdullah M. Asiri, **Salman A. Khan**, **Material Letters**, 2011, 65 , 12, 1749-1752.
15. Formation of nanosize water-soluble colloidal MnO₂: A kinetic study, **Salman A. Khan**, Zaheer Khan, **Journal of Experimental Nanoscience** 2011, 6 (2) , pp. 149-158.
16. Synthesis and anti-bacterial activities of a bis-chalcone derived from thiophene and its bis-cyclized products, Abdullah M. Asiri, **Salman A. Khan**, **Molecules** 2011, 16 , 523-531.
17. Electrochemical studies of some carbazole derivatives via cyclic voltammetry and convolution - Deconvolution transforms. Abdullah M. Asiri, **Salman A. Khan**, S. I. El-Hallag, **Journal of new Materials for Electrochemical Systems**. 14, 2011, 251-258.
18. Effect of medium acidity and photostability of 3-(4-dimethylamino-phenyl)- 1-(2,5-dimethyl-thiophen-3-yl)-propenone (DDTP): A new green emitting laser

- dye. S.A., El-Daly, A. M. Asiri, **Salman A. Khan**, K. A. Alamry, K.A., Hussein, M.A. *Chinese Journal of Chemistry* 2011, 29 (11) , pp. 2557-2561
19. Synthesis of novel steroidal oxazolo quinoxaline as antibacterial agents, **Salman A. Khan**, Abdullah M. Asiri, 2011, *Arabian Journal of Chemistry*, 4, 349-354
Year 2012
 20. Spectral characteristics of 4-(p-N,N-dimethyl-aminophenylmethylene)-2-phenyl-5-oxazolone (DPO) in different media, Abdullah M. Asiri, Samy A. El-Daly, **Salman A. Khan** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 95, 2012, 679-684.
 21. Synthesis, characterization, absorbance, fluorescence and non linear optical properties of some donor acceptor chromophores Abdullah M. Asiri, **Salman A. Khan**, Muhammed S. Al-Amodi, Kalid A. Alamry **Bulletin of the Korean Chemical Society**, **33, 2012, 1900-1906**
 22. Green –Synthesis Characterization, Photostability and Polarity studies of Novel Schiff base dyes using Spectroscopic methods. Hadi M. Marwani, Abdullah M. Asiri, **Salman A Khan**
Russ. J. Bioorgan. Chemistry, 38, 2012, 533-538.
 23. Novel Steroidal (6R)-Spiro-1,3,4-thiadiazoline Derivatives as Anti-bacterial Agents **Salman A Khan**, Abdullah M. Asiri, **Chinese Journal of Chemistry**, 30, 2012, 1901-1905.
 24. Synthesis and biological evaluation of new oxime-ether derivatives of steroid as anti-bacterial agents , **Salman A. Khan** A. M. Asiri, Kishwar Saleem, *Journal of Saudi Chemical Society*, 16, 2012, 7-11.
 25. Electrochemical Properties of 4-[(Anthracen -9-ylmethylene)-amino]-1, 5-dimethyl-2-phenyl-1,2-dihydro-pyrazol-3-one at a Platinum Electrode in Acetonitrile Solvent, Abdullah M. Asiri, Ibrahim S. El-Hallag, A.O. Al-Youbi, Khalid A. Alamry and Salman A. Khan, **Journal of New Materials for Electrochemical Systems** (2012) , Vol 15, (2) , Pp. 113-121.
 26. Synthesis and In Vitro Antibacterial Activity of Novel Steroidal (6R)-Spiro-1,3,4-Thiadiazoline Derivatives. **Salman A. Khan, Abdullah M. Asiri**, *Journal of Heterocyclic Chemistry*, **2012, 49, 6, 1452-1457.**
 27. Synthesis, Characterization, and In Vitro Antibacterial Activities of Macromolecules Derived from Bis-Chalcone Abdullah M. Asiri, **Salman A. Khan**, **Journal of Heterocyclic Chemistry**, **2012, 49, 1434-1438.**
 28. Synthesis and in vitro-antibacterial activity of [5-(furan-2-yl)-phenyl]-4,5-carbothioamide-pyrazolines. Mamta Rani, M. Yusuf, **Salman A. Khan**, *Journal of Saudi Chemical Society*, 2012, 16, 431-436.
Year 2013
 29. Spectral Properties and Micellization of 1-(2, 5-Dimethyl-thiophen-3-yl)-3-(2,4,5-trimethoxy-phenyl)-propanone (DTTP) in Different Media Abdullah M. Asiri, Salman A. Khan, Khalid A. Alamry *Journal of Luminescence*, Volume 134, February 2013, Pages 819-824
 30. Photophysical parameters and laser activity of 3(4-dimethylamino-phenyl)-1-(2, 5-dimethyl-thiophen-3-yl)-propanone (DDTP): A new potential laser dye Samy A. El-Daly Abdullah M. Asiri, Abdullah Y. Obeid, **Salman A. Khan**, Khalid A. Alamry, Mahmoud A. Hussien, Abdullah G. Al-Sehemi **Optics & Laser Technology**, Volume 45, February 2013, Pages 605-612
 31. Spectral, stoichiometric ratio, physicochemical, polarity and photostability studies of newly synthesized chalcone dye in organized media Hadi

- M. Marwani, Abdullah M. Asiri, Salman A Khan *Journal of Luminescence*, Volume 136, April 2013, Pages 296-302
32. Synthesis of steroidal thiazolidinones as antibacterial agents based on the *In-vitro* and quantum chemistry calculation **Salman A. Khan**, Abdullah M. Asiri, Kamlesh Sharma, **Medicinal Chemistry Research**, 2013, 22, 1998, 2004.
 33. Spectroscopic studies and laser activity of 3-(4-Dimethylamino-phenyl)-1-(2, 5-dimethyl-furan-3-yl)- propenone (DDFP): A new green laser dye Samy A. El-Daly, Abdullah M. Asiri, Khaled Alamry, Salman A. Khan, *Journal of Luminescence*, **2013**, 137, 2013, 6-14
 34. Synthesis, spectroscopic and physicochemical investigations of environmentally benign heterocyclic Schiff base derivatives as antibacterial agents on the bases of *in vitro* and density functional theory. Abdullahj m. Asiri, Salman A Khan, Hadi M. Marwani, K. Sharma, *Journal of Photochemistry and Photobiology B: Biology*, 120, 2013, 82-89
 35. Eco-Friendly Synthesis and *in vitro* Antibacterial Activities of Some Novel Chalcones Salman A. Khan, Abdullah M. Asiri, Khalid A. Alamry, Samy A. El-Daly, Mohie A. M. Zayed, Russian Journal of Bioorganic Chemistry. 2013, 39, 353-357.
 36. Synthesis and spectroscopic studies of Ru(II) complexes of 1,2,4-triazoles, 1,2,4-triazines and pyrimidine derivative ABDULLAH M. ASIRI, A. O. BAGHLAF, R. M. ABDEL-RAHMAN, SALMAN A. KHAN*, M. ISHAQ, Asian Journal of Chemistry, 2013, 25, 7779-7782.
 37. Synthesis of Novel Schiff bases by microwave irradiation and their *In-vitro* antibacterial activity Salman A. Khan, Abdullah M. Asiri, Aftab Aslam Parwaz Khan, Khalid Ali Khan, Asian Journal of Chemistry, 2013, 25, 8643-8646. 96.
 38. Green synthesis of novel pyrazole containing Schiff base derivatives as antibacterial agents on the bases of *in-vitro* and DFT, Salman A Khan, A. M. Asiri, K. Sharman, Eur. J. Chem., 2013, **4**, 454-458

Year 2014

39. M. Hursthouse, R. Montis, L. Niitsoo, J. Sarson, T. L. Threlfall, A. M. Asiri, Salman A. Khan, A. Y. Obaid, L. M. Al-Harbi, Anhydrates and/or hydrates in nitrate, sulphate and phosphate salts of 4 aminopyridine, (4-AP) and 3,4-diaminopyridine (3,4-DAP): the role of the water molecules in the hydrates CrystEngComm, 2014, 16,2205.
40. **Salman A. Khan**, A. M. Asiri, K. Alamar, M. A. Malik, Synthesis, Characterization, Electrochemical Studies, *In Vitro* Antibacterial Activity of Novel Thiosemicarbazone and Its Cu(II), Ni(II), and Co(II) Complexes. Scientific World Journal, 2014, 4, 592375.
41. A. M. Asiri, H.M. Marwani, K. A. Alamry, M. S. Al-Amoudi, **Salman A. Khan**, S. A. El-Daly, Green Synthesis, Characterization, Photophysical and Electrochemical Properties of Bis-chalcones, Int. J. Electrochem. Sci., 9 (2014) 799 – 809.
42. **Salman A Khan**, A. M. Asiri, S. Kumar, K. Sharma Green synthesis, antibacterial activity and computational study of pyrazoline and pyrimidine derivatives from 3-(3,4-dimethoxy-phenyl)-1-(2,5-dimethyl-thiophen-3-yl)-propenone, Eur. J. Chemistry, 5 (1) (2014) 85-90/
43. A. M. Asiri. **Salman A. Khan**, S. Al-Daly, S. H. Al-Thaqafya, H. Faidullah, . Synthesis, characterization and spectroscopic behavior of novel 2-oxo-1,4-disubstituted-1,2,5,6-tetrahydrobenzo[h]quinoline-3-carbonitrile dyes.

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 133, 10 December 2014, Pages 141-148.

44. H. M. Marwani, A. M. Asiri, **Salman A. Khan**, Spectrophotometric and spectrofluorimetric studies of novel heterocyclic Schiff base dyes, *Arabian J. Chem.*, 7, 2014, 609-614
45. M. Asiri, H. M. Marwani, **Salman A. Khan**, Spectroscopic investigation of novel donor-acceptor chromophores as specific application agents for optoelectronics and photonics Journal of Saudi Chemical Society, 18, 2014, 392-396.
46. **Salman A. Khan**, A. M. Asiri, Selective reduction of α,β -unsaturated steroidal carbonyl compounds by NaBH₄ in presence of guanidine hydrochloride in dioxane, *Asian J of Chemistry*, 26 (2014) 6331-6334
47. **Salman A. Khan**, A. M. Asiri, K. Alamy, S. El-daly, H. M. Marwani, Green synthesis, physicochemical and polarity studies of some novel biologically active donor acceptor chromophores *Asian J of Chemistry*, 26, (2014) 7364-7368.
48. A. M. Asiri, **Salman A Khan**, Samy El-Daly, Excitation energy transfer from rhodamine 6G to photochromic fulgide, *Asian J. Chemistry*, 26, 2014, 7364-7368.
49. H. M. Faidallah, K. AS. Alamry, M. A. M. Zayed, **Salman A. Khan**, Design, synthesis and biological evaluation of some novel hexahydroquinoline-3-carbonitriles as anticancer and antimicrobial agents. *Asian J. Chemistry*, 26, 2014, 8139-8144.
50. Salman A Khan, A. M. Asiri, S. A. K. Elroby, Green Synthesis, Characterization, Antibacterial Activity of Heterocyclic Compounds from Chalcone on Basis of in vitro and Quantum Chemistry Calculation. *Asian J. Chemistry*, 21, 2014, 7283-7288.

Year 2015

51. **Salman A. Khan**, A. Y. Obaid, L. M. Al-Harbi, M. N. Arshad, O. Şahin, C. C. Ersanlı, R.M. Abdel-Rehman, A. M. Asiri, M. B. Hursthouse Synthesis, spectroscopic (UV-vis and GIAO NMR), crystallographic and theoretical studies of triazine heterocyclic derivatives, *J Molecular Stru.*, 1096 (2015) 29-37.
52. M.A.N. Razvi, A. H. Bakry, S.M. Afzal, **Salman A Khan**, A M. Asiri, Synthesis, characterization and determination of third-order optical nonlinearity by cw z-scan technique of novel thiobarbituric acid derivative dyes. *Materials Lett.*, 144 (2015) 131-134.
53. **Salman A. Khan**, M.A.N. Razvi, A. H. Bakry, S.M. Afzal, A. M. Asiri, S. A. El-Daly, Microwave assisted synthesis, spectroscopic studies and non linear optical properties of bis-chromophores. *Spectrochimica Acta. A*: 137, 2015, 1100-1105.
54. S. A. Khan, A. M. Asiri, H. M. Basisi. Synthesis, Single X-ray Crystal, Spectroscopic and Photophysical Studies of Novel Heterocyclic Chalcones with Their Biological Application. S. A. Khan, A. M. Asiri, H. M. Basisi. *J. of Fluorescence*, 25, (2015) 825-834.
55. A. M. Asiri, **Salman A. Khan**, S. H. Al-Thaqafya. One-Pot Synthesis, Spectroscopic and Physicochemical Studies of Quinoline Based Blue Emitting Donor—Acceptor Chromophores with Their Biological Application *J. of Fluorescence*, 25, (2015) 1203-1213.
56. A. M. Asiri, **Salman A. Khan**, S. H. Al-Thaqafy, K. Sharma, One Pot Synthesis, Photophysical and X-ray Studies of Novel Highly Fluorescent

- Isoquinoline Derivatives with Higher Antibacterial Efficacy Based on the In-vitro and Density Functional Theory J. of Fluorescence, 25, (2015) 503-518.
57. **Salman A. Khan**, A. Y. Obaid, L. M. Al-Harbi, M. N. Arshad, O. Şahin, C. C. Ersanlı, R.M. Abdel-Rehman, A. M. Asiri, M. B. Hursthouse, Synthesis, Spectroscopic, Physicochemical, Crystal Structure and DFT Studies of 4,5,6,7-tetrahydro-1-benzothiophene-3- carbonitrile Based Azomethine Dyes Int. J. Electrochem. Sci., 10 (2015) 2306-2323.
 58. A. M. Asiri, **Salman A. Khan**, H. M. Basisi, Synthesis, Characterization, Physicochemical and Electrochemical Studies of Novel Donor Acceptor Chromophore. Int. J. Electrochem. Sci., 10 (2015) 6092-6105
 59. M. Rani, M. Yusuf, **Salman A. Khan**, P.P. Sahota, G. Pandove, Synthesis, studies and in-vitro antibacterial activity of N-substituted 5-(furan-2-yl)-phenyl pyrazolines. Arabian J of Chemistry, 8 (2015) 174-180.
 60. **Salman A. Khan**, A. M. Asiri, Physicochemical Investigation of 2,4,5-Trimethoxybenzylidene Propanedinitrile (TMPN) Dye as Fluorescence off-on Probe for Critical Micelle Concentration (CMC) of SDS and CTAB. J. of Fluorescence, 25, (2015) 1749-1755
 61. **Salman A. Khan**, A. M. Asiri, Physicochemical and Critical Micelle Concentration (CMC) of Cationic (CATB) and Anionic (SDS) Surfactants with Environmentally Benign Blue Emitting TTQC Dye J. of Fluorescence, 25, (2015) 1595-1599.
 62. **Salman A. Khan**, A. M. Asiri, H. M. Basisi, M. N. Arshad, K. Sharma, Microwave Assisted Synthesis, Physicochemical, Photophysical, Single Crystal X-ray and DFT Studies of Novel Push–Pull Chromophores. J. of Fluorescence, 25, (2015) 1585-1593

Year 2016

63. **Salman A. Khan**, S.M. Afzal, A. M. Asiri, M.A.N. Razvi, A. H. Bakry, M. A. M. Zayed, Synthesis, Spectrofluorometric Studies, Micellization and non Linear Optical Properties of Blue Emitting Quinoline. (AMQC) Dye. J. of Fluorescence, 26 (2016) 559-566.
64. A.M. Asiri, **Salman A. Khan**, H. M. Basisi, Single X-ray crystal and spectroscopic investigation of novel biologically active donor–acceptor chalcones as specific application for opto-electronics and photonics Journal of the Taiwan Institute of Chemical Engineers 2016, 59; 457-464
65. **Salman A. Khan**, A. M. Asiri, Physicochemical, photophysical investigation and micellization of 3 1-(2,5-dimethylfuran-3-yl)-3-(2,4,5-trimethoxyphenyl)prop-2-en-1-one (DFTP) dye by fluorophotometry. Journal of Molecular Liquef. 2016; 216; 423-428
66. **Salman A Khan** A M Asiri, Fluorescence quenching of environmentally benign highly fluorescence donor (D)- π -acceptor (A)- π -donor (D) quinoline dye by silver nanoparticles and anionic surfactant in liquid stage Journal of Molecular Liquef. 2016; 221; 381-38
67. M. A. Zayed, A. M. Asiri, Salman A. Khan,. Microwave Assisted Synthesis, Spectrofluorometric Characterization of Azomethine as Intermediate for Transition Metal Complexes with Biological Application J. of Fluorescence, 26 (2016) 937-947 559-566.
68. Salman A. Khan, A. M. Asiri, F. M. S Aqlan, Microwave Assisted Synthesis, Optical Properties and Physicochemical Investigations on the

- Powerful Fluorophore: Donor (D) - π -Acceptor (A) Chalcone J. of Fluorescence, 26 (2016) 2133-2140.
69. H. Parveen, R. A. S. Alatawi, **Salman A. Khan**, M. I. Al-Ahmdi, S. Mukhtar, A. Azam, N. H. Elsayed, Synthesis, Characterization and Biological Evaluation of Novel 1-N-Substituted Thiocarbomoyl-3-ferrocenyl-2-pyrazoline Derivatives Asian J. Chem. 28 (2016) 1835-1840.
 70. A. A. P. Khan, A. Khan, A. M. Asiri, **Salman A. Khan**, Studies on the oxidation of levofloxacin by N-bromosuccinimide in acidic medium and their mechanistic pathway, Journal of Molecular Liquids, 218 (2016) 604-610.
 71. K. Narasimharao, R. A. Shiekh, M. A. Malik, M. A. Said, Z. Khan, S. A. Al-Thabaiti, **Salman A. Khan**, Design, Spectroscopic Characterization, Electrical Conductivity and Molecular Modelling Studies of Biologically Puissant Co(II) and Ni(II) Complexes of N,N'-bis(furan-2-ylmethyl)benzene-1,2-dicarboxamide. Int. J. Electrochem. Sci., 11 (2016) 7282 – 7307.
 72. **Salman A. Khan**, A. M. Asiri, S. H. Al-Thaqafy Optical properties and fluorescence quenching of biologically active ethyl 4-(4-N,N-dimethylamino phenyl)-2-methyl-5-oxo-4,5-dihydro-1*H*-indeno[1,2-*b*]pyridine-3-carboxylate (DDPC) dye as a probe to determine CMC of surfactants RSC Adv., 2016,6, 102218-102225.
 73. **Salman A. Khan**, A. M. Asiri, S. H. Al-Thaqafy, Physicochemical Investigation, Fluorescence Quenching and Micellization of Ethyl 4-(2,4,5-trimethoxyphenyl)-2-methyl-5-oxo-4,5-dihydro-1*H*-indeno[1,2-*b*]pyridine-3-carboxylate (EIPC) in Organized Media. Journal of Solution Chemistry, 45 (2016) 1115-1129.
 74. S. M. Afzal, M. A. N. Razvi, **Salman A. Khan**, Osman I. Osman, Ahmed H. Bakry, A. M. Asiri^{2,3} Physicochemical and Nonlinear Optical Properties of Novel Environmentally Benign Heterocyclic Azomethine Dyes: Experimental and Theoretical Studies, PLoS One. 11 (2016) e0161613.

Year 2017

75. A M Asiri, T R Sobahi, O I Osman, **Salman A. Khan**, Photophysical investigation of (D- π -A) DMHP dye: Dipole moments, photochemical quantum yield and fluorescence quantum yield, by solvatochromic shift methods and DFT studies, Journal of Molecular Structure, 2017; 1128; 636-644
76. Abdullah M. Asiri, Osman I. Osman, Saad H. Al-Thaqafy, **Salman A Khan**, Optical properties and fluorescence quenching of carbazole containing (D- π -A) push-pull chromophores by silver nanoparticle: A detailed insight via experimental and theoretical approach, RSC Advance 2017, 7(14), pp. 8402-8414.
77. **Salman A. Khan**, Green Synthesis, Spectrofluorometric Characterization and Antibacterial Activity of Heterocyclic Compound from Chalcone on the Basis of in vitro and Quantum Chemistry Calculation. Journal of Fluorescence, 2017, 27(3), pp. 929-937.
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