

Curriculum Vitae



PERSONAL DATA

Name:	SAYED ABDELKADER AHMED
Title	Professor: Organic Chemistry
Nationality:	Egyptian
Date of birth	Dean of faculty of Earth Science
E-mail:	2/ 1 / 1970 skader_70@yahoo.com
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Language:	002822343616(H)-00200121799055(M) English and, Arabic

Objective

Synthesis of heterocyclic organic compounds and Isolation of natural compounds from microorganisms.

EDUCATION

- [1] **Ph. D. Degree:** In Organic Chemistry, Cairo University (2002)
Titled: *"Synthesis of Some Nonclassical Analogues for Mercaptopurine and Pyrimidines as antimetabolites"*
- [2] **M.Sc. Degree:** In Organic Chemistry, Cairo University (1997)
Titled: *" Synthesis of some new Hetero Cyclic compounds containing Sulfur and Nitrogen."*
- [3] **B.Sc. Degree:** Cairo University (1992), with a grad Excellent.

Proficiencies

- [1] Extensive experience in the synthesis of different heterocyclic organic compounds which have highly biological activities like antimetabolites, drugs and analogues.
- [2] Experienced organic compounds characterization techniques such as: UV, IR, NMR, HSBC, HSQC, COSY, mass spectra and single crystal x-ray.
- [3] Extensive experience in elucidating the structure of organic compounds by studying its single crystal growth.
- [4] Synthesis and fabrication of heterocyclic dyes.

RESEARCH EXPERIENCE

- [1] Successfully prepared synthesis a new antimetabolites, drugs and analogues.
- [2] Successfully prepared a new type of Azodyes.
- [3] Successfully grow anew x-ray crystallographic lattice of a new heterocyclic compounds.
- [4] Successfully extracted a new natural compounds from marine microorganisms.

CAREER RELATED EXPERIENCE

- [1] **Post doctoral Fellowship:** Gottingin University, Germany **2007-2008.**
- [2] **DFG Fellowship:** Frieburg University, Germany **2006.**
- [3] **Assistant Professor:** At faculty of Science Chemistry department beni-Sueif University. **2009- to current**
- [4] **Assistant Professor:** At faculty of Science Beni-Suef University, Egypt. **2009- to current**
- [5] **Lecturer:** At faculty of Science Cairo University Beni-Suef Branch, Egypt. **2002- to 2009.**

[6] **Assistant Lecturer:** At faculty of Science Cairo University Beni-Suef Branch, Egypt. 1997- to 2002

[7] **Instructor:** At faculty of Science Cairo University Beni-Suef Branch, Egypt. 1993- to 1997.

Grants and Fellowships:

DFG Fellowship in Frieburg University, Freiburg, Germany, 2006.

Egyptian Grants in Gottingin University, Gottingin, germany, 2007, 2008.

Workshop on Quality Assurance:

- by Alicante University 2007
- by Prof. Dr. Yousri Amin, 2006 (2 workshops)
- by Dr. Kamal Imam, Ain Shams University, in annual report 2007
- by Dr. Kamal Imam, Faculty of Science, Beni-Sueif University, 2006

Training Courses in Education:

- (Skills of Thinking), تنمية مهارات التفكير, 2005
- (Efficient Contact), الإتصال الفعال, 2005
- إعداد المعلم الجامعى , 2006
- (Uses of Recent Technological Methods in Education), استخدام الأساليب التكنولوجية الحديثة فى التعليم, 2006
- Scientific research management 2006
- (Syllabus Design), تصميم المقرر, 2006
- Efficient Presentation), العرض الفعال, 2006
- (Writing a proposal), اعداد مشروع بحثى, 2007
- Training of trainers (TOT) 2007, 2009,2011

A) Ph. D and M. Sc. Supervising

Ph. D Thesis: (15 students)

M. Sc, Thesis: (25 students)

List of publications

- 1- G. H. Elgemeie, A. H. H. Elghandour, A. M. Elzanate and **S. A. Ahmed** "Synthesis of some novel α -cyanoketene-*S,S*-acetals and their use in Heterocyclic synthesis"; *J. Chem. Soc. Perkin Trans 1*, 3285, **1997**.
- 2- G. H. Elgemeie, A. H. H. Elghandour, A. M. Elzanate and **S. A. Ahmed** "Novel synthesis of thioguanine and sulfanylpurine analogues: Reaction of heterocyclic ketene dithioacetals with nucleophiles"; *J. Chem. Research (S)*, 162, **1998**.
- 3- G. H. Elgemeie, A. H. H. Elghandour, A. M. Elzanate and **S. A. Ahmed** "Novel intramolecular cyclization of pyrazolone ketene-*S,N*-acetals for the construction of methylsulfanylpirazolo[4,3-*b*]pyridines"; *Synth. Commun.*, **32**, 3509, **2002**.
- 4- G. H. Elgemeie, A. M. Elzanate, A. H. H. Elghandour and **S. A. Ahmed**; "Novel alkylsulfanylisothiazoles and alkylsulfanylthiophenes using sodium α -cyanoketene dithioacetals as starting materials"; *Synth. Commun.* **36**, 825, **2006**.
- 5- G. H. Elgemeie, A. M. Elzanate, A. H. H. Elghandour and **S. A. Ahmed**; "Novel 1,3-dithiolanes using sodium α -cyano-ketene dithioacetals". *Synth. Commun.*, **36**, 755, **2006**.
- 6- A. O. Abdelhamid, A. H. Elghandour, **S. A. Ahmed** and Y. H. Zaki: .Reaction of hydrazonoyl halides 49¹: synthesis and antimicrobial activity of some new pyrimido[1,2-*b*][1,2,4,5]tetrazine-6-one, tetrazino[3,2-*b*]quinazolin-5-one, pyrimidino[1,2-*b*][1,2,4,5]-tetrazine-5-one and triazolo[4,3-*a*]-pyrimidine derivatives, *J. Sulfur Chem.*, **26**, 405, **2005**.
- 7- Y. H. Zaki, **S. A. Ahmed**, A. H. Hussein and A. O. Abdelhamid, Reaction of hydrazonoyl halides 47¹: synthesis of some new 2,3-dihydro-1,3,4-thiadiazoles, triazolo[4,3-*a*]-pyrimidines and pyrazolo[3,4-*d*]pyridazines with expected biological activity, *Phosphorus, Sulfur and Silicon*, **181**, 825, **2006**.
- 8- A. O. Abdelhamid, A. H. Elghandour, **S. A. Ahmed** and Y. H. Zaki Synthesis and reactions of 2-chloro-2(hydroximino)-1-(4-methyl-2-Phenylthiazol-5-yl)-ethanone, *J. Heterocycl. Chem.*, **43**, 249, **2006**.
- 9- **Sayed A. Ahmed**, Ahmed M. Hussein, Walaa G. M. Hozayen, Ahmed H. H. El-Ghandour and Abdou O. Abdelhamid: Synthesis of some

- pyrazolopyrimidines as purine analoges and their biological activates, *J. Heterocycl.Chem.*, **44**, 803, **2007**.
- 10- **Sayed A. Ahmed**, Ahmed H. H. El-Ghandour, Abdou O. Abdelhamid ,Mahmoud A. Sayed and Basant M. Mohamed: Synthesis of new non classical purine analogues with their biological activities as antimetabolite, *J. Chem. Research*, **26**, **2008**.
 - 11- **Sayed A. Ahmed**, Synthesis of Some New 5-Phenylazothiazoles and Pyrazolo[1,5-*a*]-pyrimidines, *Mansoura J chem.*, **35**, 1, **2008**.
 - 12- Osama M. Ahmed, Mahmoud A. Mohamed, Rasha R. Ahmed, **Sayed A. Ahmed**, Synthesis and anti-tumor activities of some new pyridines and pyrazolo[1,5-*a*]Pyrimidines, *European Journal of Medicinal Chemistry*, **44**, 3519-3523, **2009**.
 - 13- Abdou O. Abdelhamid; Eman K. A. Abdelall; Nadia A. Abdel-Riheem; **Sayed A. Ahmed**: [Synthesis and Antimicrobial Activity of Some New 5-Arylazothiazole, Pyrazolo\[1,5-*a*\] Pyrimidine, \[1,2,4\]Triazolo\[4,3-*a*\]Pyrimidine, and Pyrimido\[1,2-*a*\]Benzimidazole Derivatives Containing the Thiazole Moiety, *Phosphorus, Sulfur, and Silicon and the Related Elements*, **185**:709–718, **2010**.](#)
 - 14- **Sayed A. Ahmed**, Nadia A. Abdelriheem and Abdou O. Abdelhamid, Synthesis of some pyrazolopyrimidines and 5-arylazothiazoles, *Eur. Chem. Bull.*, **3**(10), 1038-1045 **2014**.
 - 15- **Sayed A. Ahmed**, Osama M. Ahmed and Abdou, O. Abdelhamid, Synthesis and anticancer activity of triazolopyrimidines. *Eur. J Chem.*, **5**(2) 334-338, **2014**.
 - 16- **Sayed A. Ahmed**, Osama. M. Ahmed, Hussein S. Hussein, Novel Synthesis of Puriens analogues and Thieno[2,3-*b*]pyridines with anticancer and antioxidant activity, *Journal of Pharmacy Research*, **8**(9),1303-1313, **2014**.
 - 17- **Sayed A. Ahmed** and M. Alrefai, Microwave Assisted Synthesis and Antimicrobial Activity of New Pyrazolo[5,1-*c*][1,2,4]triazines and Thieno[2,3-*b*] pyridine Derivatives, *Jordan Journal of Chemistry*, **7**(4), 365-381, **2012**.
 - 18- **Sayed A. Ahmed** and Emadeldin M. Kamel, Cytotoxic activities of flavonoids from *Centaurea scoparia*, *Scientific world Journal*, 1-7, **2014**.

- 19- **Sayed A. Ahmed**, and M. Alrefai, Chemical constituents and cytotoxic activities of the extracts of *Melilotus indicus*. *Eur. J Chem.*, **5**(3) 503-506, **2014**.
- 20- **Sayed A. Ahmed** and Emadeldin M.Kamel, Phytochemical and Pharmacological Studies on *Pluchea dioscoridis*, *International Journal of Applied Research in Natural Products*, **7**(4) 1-10, **2014**.
- 21- **Sayed A. Ahmed**, Ashraf A. El Bassuony and Mahmoud A. Ahmed, Synthesis and Antimicrobial Activity of New Hydrazoneothizole and Diazo-[1,3,4] thiadiazole Derivatives, *Journal of Pharmacy Research*, **8**(8),1185-1190, **2014**.
- 22- **Sayed A. Ahmed**, Hussein S. Elgendy, Synthesis of Some new Purine and Mercaptopurine Analogues as Antimetabolites, *International J. of advanced Research*, **5**, 865-876. **2014**.
- 23- **Sayed A. Ahmed** and E. M. Kamel, Chemical constituents, cytotoxic and antibacterial Activities of the Aerial parts of BRASSICA NIGRA, *Int. J .Bioassys*, **02** (08), 1134-1138, **2013**.
- 24- Hisham Essawy, A.H.H.Elghandour, **Sayed A. Ahmed** and Abdelrahman M. Ali., *Egypt. J. Appl. Sci*, **27** (5) **2012**.
- 25- Nabel A. Negm · **Sayed A. Ahmed** · Ali A. Abd-Elaal, Tarek Ashraf, Synthesis and Surface Activity of Nonionic Surfactants Derived, from Gallic Acid, *Arab J Sci Eng*,41:67–73, ., **2014**.
- 26- I.E. Attalla, A.H.H. Elghandour, **S.A. Ahmed**, A.S.O. Seloma. A study of the stability of fenitrothion and malathion and relevant impurities under different environmental conditions, *International Journal of Academic Research Part A*; **6**(6), **2014**
- 27- I.E. Attalla, **S.A. Ahmed**, A.H.H. Elghandour, A.S.O. Seloma. A study of the stability of carbendazim and dimethoate and relevant impurities under different environmental conditions, *International Journal of Academic Research Part A*; **6**(6), **2014**.

- 28- Abdelrahman Mohamed, Soha M. Albukhari³, Hisham Essawy, Ahmed H.H. EL-Ghandour, **Sayed A. Ahmed**, Patricia A. Heiden, Epoxy/silica nanocomposites and benefit of a gelatin interface on nanocomposite properties, *International Journal of Advanced Research*, **2**, (11), 605-613, **2014**.
- 29- **Sayed A. Ahmed** and E. M. Kamel, Phenolic constituents and biological activity of the genus *pluchea*, *Der Pharma Chemica*, **5** (5):109-114, **2013**.
- 30- **Sayed A. Ahmed** and Hussein E, Elgendy, Synthesis of pteridines derivatives from different heterocyclic compounds, *Der Pharma Chemica* **6** (3):194-219, **2014**.
- 31- **Sayed A. Ahmed**, Hussein S. Elgendy and Walaa O. Younis, Pyrazolopyrimidines: Synthesis, Chemical reactions and Biological activity, *International J. of advanced Research*, **2**(7) 474-564, **2014**.
- 32- G. H. Elgemeie, A. M. Elzanate, A. H. H. Elghandour and **S. A. Ahmed**; A Facile Synthesis of N-Substituted-4-Methyl-Sulfanyl-2-Pyridone Derivatives Using Ketene Dithioacetals, Proceeding of *1st International Conference NTCA1 (February 2-4 2002 Cairo University Beni-Suef, Egypt Org 4, V(1)*. (poster)
- 33- G. H. Elgemeie, A. H. H. Elghandour , **S. A. Ahmed**, and M. A. Mohamed, Synthesis of Some Novel 4-Methylthiopyridones and pyrazolo[4,3-c]pyridines Using –Cyanoketene-s,s-acetals Proceeding of *7st International Conference ICCRD⁷ (April 14-17, 2003, Organized by Chemistry department, Faculty of Science, Mansoura University*. (poster)
- 34- Ahmed H. H. El-Ghandour, Ahmed M. Hussein, **Sayed A. Ahmed**, and Walaa G. M. Hozayen, Novel synthesis of some fused pyrazolo[1,5-a]pyrimidine with expected biological activities *9th Ibn Sina International conference on Pure and Applied Chemistry Sharm el sheikh, Egypt, 11-14 December, 2004* (poster)
- 35- **Sayed A. Ahmed**, Hamdi abdelrahim, Khaled A. Shabban, Mahmoud. Al Refai, Helmke, Hartmut Laatsch, Butanloide, Acetophenones and tyrosol

derivatives from terrestrial streptomyces 2nd Gottinger Chemie-Forum 4 Juli, 2008, Germany, (poster)

- 36- Sayed A. Ahmed**, Ahmed. H. H. Elghandour and Houssein S. Hussien, New trends on the synthesis of novel purine analogues with expected antimetabolite effects, published in 2nd International Conference on New Trends in Chemistry and Their Applications NTCA2 Hurghada, , Egypt 13- 15 February- 2008, Beni-Suef University, Egypt. (oral)
- 37-** Mahmoud Al-Refai , Hafizur Rahman, **Sayed A. Ahmed** Elisabeth Helmke and Hartmut Laatsch, A new Butenolide and two Plant Flavones from a Marine *Streptomyces sp.*, published in 2nd Gottinger Chemie-Forum 4 Juli, 2008, Germany. (poster)
- 38- Sayed A. Ahmed**, Hussein S. Elgendy, Synthesis of Some new Purine and Mercaptopurine Analogues as Antimetabolites, 1st International Conference on Advanced basic & applied Sciences (ABAS) Including Egyptian-Sweden Workshop, Hurghada 2012. (oral)
- 39-** Olfat A. Fadali, Ibrahim E. Ibrahim, **Sayed A. Ahmed**, Nabila Sh. Mohamed, Sequencing Batch Reactor as Low-Cost Innovative Technology for Municipal Wastewater Treatment 2nd International Conference on Advanced basic & applied Sciences (ABAS) Ain El-Sohna 2014. (oral)
- 40-** Sobhi Gomh, **Sayed Ahmed**, Abdou Abdelhamid, Synthesis and anticancer evaluation of some novel thiazoles, thiadiazoles, and pyrido[2,3-d][1,2,4]triazolo[4,3-a] pyrimidinone incorporating triazole moiety., *MOLECULES*, 20, 1357-1376, 2015.
- 41-** Nadia Abdelriheem, **Sayed Ahmad**, Abdou Abdelhamid Synthesis of Some New Thieno[2,3-b]pyridines, Pyrimidino [4',5':4,5] thieno[2,3-b]pyridine and Pyridines incorporating 5-Bromobenzofuran-2-yl moiety. *MOLECULES*, 20, 822-838, 2015.
- 42-** Shimaa A. Ahmed, Hossam M. Hassan, **Sayed A. Ahmed*** and Ahmed H. Elghandour, Comparative Investigation of Minerals, Amino acids, Lipoidal Contents and General Analysis of *Chamaerops humilis* L. Organs Growing in Egypt., *Journal of American Science*, 11(9) , 2015.

- 43-** Doaa A. Abdel Rheem, Hossam M. Hassan*, **Sayed A. Ahmed***and Ahmed H. Elghandour, Investigation and Comparison of Lipid Content and Nutritional Composition of Different Organs of *Brahea armata*– S. Watson, Family Arecaceae, Growing in Egypt., *Journal of American Science*, 11(9). **2015**.
- 44-** Nabel A. Negm, **Sayed Abdelkader Ahmed**, • Emad A. Badr, nionic Surfactants Derived from Tannic Acid as Corrosion Inhibitors for Carbon Steel in Acidic Medium., *J Surfact Deterg* , 1742-2, **2015**.
- 45-** **Sayed A. Ahmed***, Ebtelhal Taha, Islam Koriem, Emadeldin M. Kamel, BUTANOLIDE, TYROSOL ESTER AND ACETOPHENONE DERIVATIVES FROM TERRESTRIAL STREPTOMYCES SPP., *World Journal of Pharmaceutical Research.*, Vol 4, Issue 10, **2015**.
- 46-** Emadeldin M Kamel, Ayman M Mahmoud, **Sayed A Ahmed**, Al Mokhtar Lamsabhi, [A phytochemical and computational study on flavonoids isolated from *Trifolium resupinatum* L. and their novel hepatoprotective activity.](#), *Food & function*, 7, 4, 2094-2106, **2016**.
- 47-** The Construction and Performance Characteristics of Carbon Paste Electrodes for Oxomemazine Hydrochloride,
- 48-** M. Issa, **Sayed A. Ahmed**, Nabila S. Mohamed, Naglaa M. Mohamed., *American Journal of Applied and Industrial Chemistry.*, **2016**; 2(2): 10-17.
- 49-** Yousry M.I. **Sayed A.Ahmed**. , Nabila S. Naglaa M.M. ,(2016) *Der pharma chemica*. ,8 (11) 197-206
- 50-** Nabila Shehata, Hussein SH Mohamed, Heba M Emam, **Sayed A. Ahmed**, FUEL PRODUCED FROM CATALYTIC PYROLYSIS OF WASTE PLASTIC, *Emirates Journal for Engineering Research*, 22 (4), 1-6, **2017**.
- 51-** **Sayed A. Ahmed**, Hussein S. H. Mohamed , Mohamed Nour, Synthesis, Chemical reactions and applications of Aryl azo Thiazole, *International Journal of advanced research*, 5(7), 2426-2496, **2017**.
- 52-** **Sayed A. Ahmed**, Hussein S. H. Mohamed, Heba S. Bahnsawy, Evaluation of N-Sulfanoamide Pyridines from Chalchon with Anticancer Effect, *International Journal of Innovative Research in Science, Engineering and Technology*, 6(8), 15972-15981, **2017**.

- 53-** Hussein SH Mohamed, Nabila Shehata, Heba M Emam, **Sayed A Ahmed**, Waste plastic between estimation and pyrolysis, RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES, 8(4), 685-708, **2017**.
- 54-Sayed A. Ahmed**, Hussein S. H. Mohamed, Mohamed Nour, Novel synthesis and characterization of Aryl Benzothiazoles with antimicrobial activity, der pharma chemical, 10(5), 121-127, **2017**.
- 55-** Adsorption of chromium(VI) from aqueous solution by glycine modified cross-linked chitosan resin, Asmaa S. Hamouda, **Sayed A. Ahmed**, Nahla M. Mohamed¹, Mostafa M.H. Khalil, Egypt. J. Chem. Vol. 61, No.5 pp. 799 - 812 (**2018**)
- 56-** Synthesis and characterization of N-alkyl-2-pyridinium oligomers as pour points depressants for crude oils, Eid M S Azzam, **Sayed A. Ahmed**, hanafy M abdel salam, Osama A Abdalla, Elshafie AM Gada, Egyptian Journal Of Petroleum., **2018**.
- 57-** A novel approach for the removal of lead (II) ion from wastewater using Kaolinite/Smectite natural composite adsorbent, I. M. El-Naggar · **Sayed A. Ahmed** · Nabila Shehata · E. S. Sheneshen · Mahmoud Fathy · Amr Shehata, Applied Water Science., (**2019**) **9:7**
- 58-** Eid MS Azzama, **Sayed A Ahmed**, Hussein H Mohamed, Mohamed A Adly, Elshafie AM Gada, Removal of iron (II) from wastewater in oil field using 3-(p-methyl) phenyl-5-thionyl-1, 2, 4-triazoline assembled on silver nanoparticles, DESALINATION AND WATER TREATMENT, 142, 244-251, **2019**.
- 59-** Hussein S Mohamed, NK Soliman, Doaa A Abdelrheem, Arwa A Ramadan, Ahmed H Elghandour, **Sayed A Ahmed**, Adsorption of Cd²⁺ and Cr³⁺ ions from aqueous solutions by using residue of Padina gymnospora waste as promising low-cost adsorbent, Heliyon, 5(3), e01287, **2019**.
- 60-** Sayed A. Ahmed, N.K. Soliman, Hussein S. Mohamed , Rasha H. Elsayed, Nashwa M. Elmedny, Ahmed H. Elghandour, Removal of chromium and cadmium ions from aqueous solution using residue of Rumex dentatusL. plant waste, Desalination and Water Treatment, 149, 181-193, **2019**.

- 61-** Diatomite supported by CaO/MgO nanocomposite as heterogeneous catalyst for biodiesel production from waste cooking oil, [Abdelrahman M. Rabie](#), [Mohamed Shaban](#), [Mostafa, R. Abukhadra](#), [Rania Hosny](#), [Sayed A. Ahmed](#), and [Nabel A. Negm.](#), [Journal of Molecular Liquids](#), **279**, (1), 224-231, **2019**.
- 62-** Ion Exchangers as an Emerging Technique for Removal of Toxic Heavy Metals in Wastewater: A Review, Davidson E Egirani¹ Mohamed El-Naggar, **Sayed A. Ahmed** Nabila Shehata⁴ Eman. S. Sheneshen⁵ Mahmoud Fathy, [International Journal of Innovative Studies in Sciences and Engineering Technology](#) Volume: 5 Issue: 6 | **2019**.
- 63-** Surface decoration of diatomite by Ni/NiO nanoparticles as hybrid composite of enhanced adsorption properties for malachite green dye and hexavalent chromium, Mostafa R. Abukhadra, Mohamed Adel Sayed, Abdelrahman M. Rabie, **Sayed A. Ahmed**, [Colloids and Surfaces A: Physicochem. Eng. Aspects](#), [Volume 577](#), 20 September **2019**, Pages 583-593
- 64-** Hussein S. Mohamed, N. K. Soliman, Shima A. Ahmed, Fatma. H. Sayed, Ahmed H. Elghandour, **Sayed A. Ahmed** , Cd²⁺ and Cu²⁺ removal by waste of Egyptian marine brown macroalga *Hydroclathrus clathratus*, [Environmental Technology & Innovation](#), volume 15, 15 August, 100365.
- 65-** Statistical physics-based analysis of the adsorption of Cu²⁺ and Zn²⁺ onto synthetic cancrinite in single-compound and binary systems, Ali Q. Selim, Lotfi Sellaoui , **Sayed A. Ahmed**, Mohamed Mobarak, Essam A. Mohamed, Abdelmottaleb Ben Lamine, Alessandro Erto, Adrián Bonilla-Petriciolet,, Moaaz K. Seliem, [Journal of Environmental Chemical Engineering](#), 7, 4, 103217, **2019**.
- 66-** Reviewing of synthesis and computational studies of pyrazolo pyrimidine derivatives, Hussein Shaban Mohamed, **Sayed A. Ahmed**, [Journal of Chemical Reviews](#), **1, 3, 154-251, 2019**.
- 67-** Synthesis, characterization and biological activity of Schiff bases based on chitosan and acetophenone derivatives, Olivia H. Raouf, Samy Selim, Hussein Shaban Mohamed, Omayma F. Abdel-Gawad, Ali M. Elzanaty,

- Sayed A. Ahmed.**, Advanced Journal of Chemistry-Section A, 3,3, 274-282, 2019.
- 68- [Nano metal oxide impregnated Chitosan-4-nitroacetophenone for industrial dye removal](#), Hussein S Mohamed, NK Soliman, AF Moustafa, Omima F Abdel-Gawad, Rana R Taha, **Sayed A Ahmed**, International Journal of Environmental Analytical Chemistry, doi:-
<https://doi.org/10.1080/03067319.2019.1691178>
- 69- Naglaa M. Mohamed, Nabila Shehata, Yousry M. Issa, Hussein S. Mohamed, **Sayed A. Ahmed**, Carbon paste electrodes for Oxomemazine Hydrochloride: Fabrication and evaluation, Advanced Journal of Chemistry-Section A., 3, 1, 24-35, 2019.
- 70- Effect of selenium and nano-selenium on cisplatin-induced nephrotoxicity in albino rats, M. M. A. Shafae, Hussein Mohamed, M. A. Kandeil, **S. A. Ahmed**, Ukr. Biochem. J, 91, 6, 86-95, 2019.
- 71- [Instantaneous photocatalytic degradation of malachite green dye under visible light using novel green Co-ZnO/algae composites](#), Abdelrahman M Rabie, Mostafa R Abukhadra, Ahmed M Rady, **Sayed A Ahmed**, Ahmed Labena, Hussein SH Mohamed, Mohamed A Betiha, Jae-Jin Shim, Research on Chemical Intermediates, 46, 1955-1973, 2020.
- 72- Cytotoxic activity, molecular docking, pharmacokinetic properties and quantum mechanics calculations of the brown macroalga Cystoseira trinodis compounds, Shima A Ahmed, Aziz A Rahman, Khaled NM Elsayed, HR Abd El-Mageed, Hussein S Mohamed, **Sayed A Ahmed**, Journal of Biomolecular Structure and Dynamics, doi:-
<https://doi.org/10.1080/07391102.2020.1774418>
- 73- H₂O₂-activated anthracite impregnated with chitosan as a novel composite for Cr(VI) and methyl orange adsorption in single-compound and binary systems: Modeling and mechanism interpretation, Essam A. Mohamed, Ali Q. Selim, **Sayed A. Ahmed**, Lotfi Sellaoui, Adrián Bonilla-Petriciolet, Alessandro Ertoe ZichaoLi, Yanhui Li, Moaaz K. Seliem, Chemical Engineering Journal, Volume 380, 15 January 2020, 122445.

- 74-** Insight into novel β -cyclodextrin-grafted-poly (N-vinylcaprolactam) nanogel structures as advanced carriers for 5-fluorouracil: Equilibrium behavior and pharmacokinetic modeling, Hayam M. El-Zeiny, Mostafa R. Abukhadrab, Osama M. Sayed, Ali H. M .Osman, **Sayed A. Ahmed**, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 586, 5 February 2020, 124197.
- 75-** Zinc aluminate nanoparticles: Preparation, characterization and application as efficient and economic catalyst in transformation of waste cooking oil into biodiesel, Mohamed Shaban, Rania Hosny, Abdelrahman M. Rabie, Jae-Jin Shim, **Sayed A. Ahmed**, Mohamed A. Betihac, Nabel A. Negm, Journal of Molecular Liquids, Volume 302, 15 March 2020, 112377.
- 76-** Rumex dentatus L. phenolics ameliorate hyperglycemia by modulating hepatic key enzymes of carbohydrate metabolism, oxidative stress and PPAR γ in diabetic rats, Rasha H. Elsayed, Emadeldin M. Kamel, Ayman M. Mahmoud, Ashraf A. El-Bassuony, MayBin-Jumah, Mokhtar Lamsabhid, **Sayed A. Ahmed**, Food and Chemical Toxicology, Volume 138, April 2020, 111202.
- 77-** GC/MS spectroscopic approach, antimicrobial activity and cytotoxicity of some marine macroalgae from qusier and marsa alam seashore (Red sea), Egypt, Doaa A. Abdelrheem; Aziz A. Rahman; Khaled N. M. Elsayed; **Sayed A. Ahmed**, Egyptian Journal of Aquatic Biology & Fisheries , DOI: [10.21608/EJABF.2020.88670](https://doi.org/10.21608/EJABF.2020.88670).
- 78-** Bis-indole alkaloid caulerpin from a new source Sargassum platycarpum: isolation, characterization, in vitro anticancer activity, binding with nucleobases by DFT calculations and MD simulation, Doaa A Abdelrheem,

HR Abd El-Mageed, Hussein S Mohamed, Aziz A Rahman, Khaled NM Elsayed, Sayed A Ahmed, Journal of Biomolecular Structure and Dynamics, DOI:- <https://doi.org/10.1080/07391102.2020.1784285>.

79- Exhibiting the diagnostic face of selenium nanoparticles as a radio-platform for tumor imaging, Mohamed Korany, Fawzy Marzook, Basant Mahmoud, **Sayed A. Ahmed**, Samia M. Ayoub, Tamer M. Sakr, Bioorganic Chemistry, Volume 100, July 2020, 103910.

80- Synthesis and radiolabeling of vitamin C-stabilized selenium nanoparticles as a promising approach in diagnosis of solid tumors, Mohamed Korany, · Basant Mahmoud, · Samia M. Ayoub, Tamer M. Sakr, **Sayed A. Ahmed**, Journal of Radioanalytical and Nuclear Chemistry, DOI:- <https://doi.org/10.1007/s10967-020-07195-5>

81- Destabilizing the structural integrity of SARS-CoV-2 main protease and the SARS-CoV-2 spike protein receptors by caulerpin and its derivatives along with some SARS-CoV-2 inhibitors: An insilico approach for a combination therapy, Shima A. Ahmed1 , Doaa A. Abdelrheem, H.R. Abd El-Mageed, Hussein S. Mohamed, Aziz A. Rahman, Khaled N. M. Elsayed, **Sayed A. Ahmed**, Journal of Structural Chemistry, Inpress.