

# Mostafa Aly Hussien

## Curriculum Vitae



### Personal information

|                           |                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                      | Mostafa Aly Hussien                                                                                                                             |
| 1 <sup>st</sup> Address   | King Abdulaziz University, , Faculty of Science,<br>Department of Chemistry, Jeddah                                                             |
| 2 <sup>nd</sup> Address   | Port-Said University, Faculty of Science,<br>Department of Chemistry, Portsaid                                                                  |
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| Nationality               | Egyptian                                                                                                                                        |
| Date of birth             | March 28 <sup>th</sup> , 1977                                                                                                                   |

### Work experience

|                                      |                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------|
| Dates                                | 09-09-2017 till now                                                                 |
| Position held                        | Associate professor of inorganic chemistry                                          |
| Main activities and responsibilities | King Abdulaziz University, Faculty of Science,<br>Department of Chemistry, Jeddah   |
| Dates                                | 28-05-2016 09-09-2017                                                               |
| Position held                        | Assistant professor of inorganic chemistry                                          |
| Main activities and responsibilities | King Abdulaziz University, , Faculty of Science,<br>Department of Chemistry, Jeddah |
| Dates                                | 28-02-2011 – 28-05-2016.                                                            |
| Position held                        | Lecturer of Inorganic Chemistry at the Department of Chemistry,                     |
| Main activities and responsibilities | Faculty of Science, Port Said University, Port said, Egypt.                         |
| Dates                                | 04-03-2004                                                                          |
| Position held                        | Assistant lecturer                                                                  |
| Main activities and responsibilities | Faculty of Education, Suez Canal University, Port said, Egypt.                      |
| Dates                                | 04-06-2000                                                                          |
| Position held                        | Demonstrator and Teaching Assistant                                                 |
| Main activities and responsibilities | Faculty of Education, Suez Canal University, Port said, Egypt.                      |

**Dates**  
**Degree awarded**

Principal subjects/skills  
Name and type of  
organization providing  
education

**Dates**  
**Degree awarded**

**Personal skills  
and competencies**

Languages  
(spoken and writing)

Computer skills

Memberships

05-02-2011  
Ph.D. Inorganic Chemistry.

Faculty of Education, Suez Canal University, Port said, Egypt

28-01-2004  
M.Sc. Inorganic Chemistry

- [1] Arabic: Mother tongue
- [2] English: Very Good 63(511) TOFEL Certificate)
- [3] German: Good

[1] Windows , Office , ChemBioOffice13, Molecular Docking,  
Computational Calculation, Endnote, and Hardware Maintenance

[2] International Computer Driving License (ICDL) Certificate  
holder and Teacher for ICDL Trainers.

- [1] Member of First National Bank for Laboratories in Egypt
- [2] Member of First center for Examination in Port Said  
university
- [3] Member of First Port Said University Teaching Staff Club
- [4] Member of the Committee of Port Said University student's  
union elections.
- [5] Vocal Point for Port Said University for Preparation for the  
new version of the card university governance.
- [6] Vice Chairman of the Central Laboratory of the Faculty of  
Science, University of Port Said.

## List of Publications

1. Murad, H.A.S., Alqurashi, T.M.A. & Hussien, M.A. Interactions of selected cardiovascular active natural compounds with CXCR4 and CXCR7 receptors: a molecular docking, molecular dynamics, and pharmacokinetic/toxicity prediction study. BMC Complement Med Ther 22, 35 (2022).  
<https://doi.org/10.1186/s12906-021-03488-8>.
2. Alomari, Fatimah Y., Abeer A. Sharfalddin, Magda H. Abdellattif, Doaa Domyati, Amal S. Basaleh, and Mostafa A. Hussien. 2022. "QSAR Modeling, Molecular Docking and Cytotoxic Evaluation for Novel Oxidovanadium(IV) Complexes as Colon Anticancer Agents" Molecules 27, no. 3: 649.  
<https://doi.org/10.3390/molecules27030649>.
3. Ahmed Said Mohamed, Isabelle Jourdain, Michael Knorr, Abdirahman Elmi, Samir Chtita, Rebecca Scheel, Carsten Strohmman, Mostafa A. Hussien, "Design of hydroxyl- and thioether-functionalized iron-platinum dimetallacyclopentenone complexes. Crystal and electronic structures, Hirshfeld and docking analyses and anticancer activity evaluated by in silico simulation", Journal of Molecular Structure, Volume 1251, 2022, <https://doi.org/10.1016/j.molstruc.2021.131979>.
4. Mohamed E El-Hefnawya, Jamal Lasria, Zahraa A Alsaihati, Khalid O Al-Footy, Mostafa A Hussien & Ali I Ismail "X-ray crystal structure, NMR, DFT investigations, pharmaco-kinetic, and toxicity of sarcotrocheliol: A pyrane-based cembranoids of marine origin", Indian Journal of Chemistry Vol. 61, January 2022, pp. 69-80.
5. Alamri, M. A., Al-Jahdali, M., Al-Radadi, N. S., Hussien, M. A., "Characterization, theoretical investigation, and biological applications of Mn(II), Co(II), Ni(II), Cu(II), and Zn(II) complexes of a triazene ligand containing a benzothiazole ring", Appl Organomet Chem 2022, 36( 1), e6466.  
<https://doi.org/10.1002/aoc.6466>.
6. Hussien, Mostafa A., Sharfalddin, Abeer A., Jaremko, Mariusz, "In-Silico-Study-Of-Natural-Compound-Candidates-As-Promising-Drugs-For-Sars-cov-2", International Journal of Scientific & Technology Research Volume 10, Issue 11, 15-26.
7. Musa, A., Alamry, K. A., Hussein, M. A., Elfaky, M. A., Alzahrani, A. Y., Al-Ghamdi, Y. O., Hussien, M. A., "Synthesis of arylidene-based benzoxazine derivatives as promising antimicrobial materials" J. Heterocycl. Chem. 2021, 1. <https://doi.org/10.1002/jhet.4411>.
8. Babgi, Bandar A., Doaa Domyati, Magda H. Abdellattif, and Mostafa A. Hussien. 2021. "Evaluation of the Anticancer and DNA-Binding Characteristics of Dichloro(diimine)zinc(II) Complexes" Chemistry 3, no. 4: 1178-1188. <https://doi.org/10.3390/chemistry3040086>.
9. S.J. Almeahadi, K.A. Alamry, M.A. Elfaky, A.M. Asiri, M.A. Hussien, S.Z. Al-Sheheri, M.A. Hussein, The role of the arylidene linkage on the antimicrobial enhancement of new tert-butylcyclohexanone-based polyketones, Polymer Bulletin (2021). <https://doi.org/10.1007/s00289-020-03365-3>.
10. Ali, Amena, Magda H. Abdellattif, Abuzer Ali, Ola AbuAli, Mohd Shahbaaz, Mohamed J. Ahsan, and Mostafa A. Hussien. 2021. "Computational Approaches for the Design of Novel Anticancer Compounds Based on Pyrazolo[3,4-d]pyrimidine Derivatives as TRAP1 Inhibitor" Molecules 26, no. 19: 5932. <https://doi.org/10.3390/molecules26195932>

11. Howsaui, Hanan B., Abeer A. Sharfalddin, Magda H. Abdellattif, Amal S. Basaleh, and Mostafa A. Hussien. 2021. "Synthesis, Spectroscopic Characterization and Biological Studies of Mn(II), Cu(II), Ni(II), Co(II) and Zn(II) Complexes with New Schiff Base of 2-((Pyrazine-2-ylimino)methyl)phenol" *Applied Sciences* 11, no. 19: 9067. <https://doi.org/10.3390/app11199067>.
12. Abdellattif, Magda H., Mohd Shahbaaz, M. M.H. Arief, and Mostafa A. Hussien. 2021. "Oxazinethione Derivatives as a Precursor to Pyrazolone and Pyrimidine Derivatives: Synthesis, Biological Activities, Molecular Modeling, ADME, and Molecular Dynamics Studies" *Molecules* 26, no. 18: 5482. <https://doi.org/10.3390/molecules26185482>.
13. S M Shakib, A Naz. Significance of MD Simulation in Pharmaceutical Sciences: A Review. *Am J Biomed Sci & Res.* 2021 -13(4). AJBSR.MS.ID.001895. <https://doi.org/10.34297/AJBSR.2021.13.001895>.
14. Complexation of uranyl (UO<sub>2</sub>)<sup>2+</sup> with bidentate ligands: XRD, spectroscopic, computational, and biological studies, Sharfalddin AA, Emwas AH, Jaremko M, Hussien MA (2021) Complexation of uranyl (UO<sub>2</sub>)<sup>2+</sup> with bidentate ligands: XRD, spectroscopic, computational, and biological studies. *PLOS ONE* 16(8): e0256186. <https://doi.org/10.1371/journal.pone.0256186>.
15. Howsaui, H.B.; Basaleh, A.S.; Abdellattif, M.H.; Hassan, W.M.I.; Hussien, M.A. Synthesis, Structural Investigations, Molecular Docking, and Anticancer Activity of Some Novel Schiff Bases and Their Uranyl Complexes. *Biomolecules* 2021, 11, 1138. <https://doi.org/10.3390/biom11081138>.
16. Babgi BA, Alsayari JH, Davaasuren B, Emwas A-H, Jaremko M, Abdellattif MH, Hussien MA. "Synthesis, Structural Studies, and Anticancer Properties of [CuBr(PPh<sub>3</sub>)<sub>2</sub>(4,6-Dimethyl-2-Thiopyrimidine-κS)]". *Crystals*. 2021; 11(6):688. <https://doi.org/10.3390/cryst11060688>.
17. Abeer A. Sharfalddin, Abdul-Hamid Emwas, Mariusz Jaremko, and Mostafa A. Hussien, "Synthesis and Theoretical Calculations of Metal–Antibiotic Chelation with Thiamphenicol; In vitro DNA and HAS Binding, Molecular Docking, and Cytotoxic Studies", *New J. Chem.*, 2021, Advance Article, <http://dx.doi.org/10.1039/D1NJ00293G>.
18. Tarek H. Afifi1, Magda Abdellattif, Adel A. Abdel-Rahman, Mohamed M. Arief, Samar M.Mounir, Amena Ali, Mostafa Hussien, Rawda M. Okasha, Mohamed Hagar , "Novel 2-Hydroselenonicotinonitriles and Selenopheno[2, 3-b]pyridines: Efficient Synthesis, Molecular Docking-DFT Modelling, and Antimicrobial Assessment" *Frontiers in Chemistry* , 9, 2021, 672503-672528, <http://dx.doi.org/10.3389/fchem.2021.672503>.
19. Sammar Alsaedi, Bandar A. Babgi, Magda H. Abdellattif, Abdul-Hamid Emwas, Mariusz Jaremko, Mark G. Humphrey & Mostafa A. Hussien Effect of Net Charge on DNA-Binding, Protein-Binding and Anticancer Properties of Copper(I) Phosphine-Diimine Complexes. *J Inorg Organomet Polym* (2021). <https://doi.org/10.1007/s10904-021-02063-5>.
20. A.Z. El-Sonbati, N.F. Omar, M.I. Abou-Dobara, M.A. Diab, M.A. El-Mogazy, Sh.M. Morgan, M.A. Hussien, A.A. El-Ghettany, "Structural, molecular docking computational studies and in-vitro evidence for antibacterial activity of mixed ligand complexes", *Journal of Molecular Structure* ,1239,2021, 130481-130495. <https://doi.org/10.1016/j.molstruc.2021.130481>.

21. Jamal Lasri, Magda M Aly, Naser E Eltayeb, Mona A Alamri, Bandar A Babgi and Mostafa A Hussien, "The potential anticancer activities of platinum(II) complexes with tridentate N'N'N' pincer ligands", Indian Journal of Chemistry Vol. 60A, April 2021, pp. 519-530.  
<http://nopr.niscair.res.in/handle/123456789/56968>.
22. Bandar A. Babgi, Musab Bawazeer , Najah A. Alzaidi , Muhammad N. Arshad ,Abdesslem Jedidi, Noor M. Bataweel c,d, Ahmed M. M. Al-hejin, and Mostafa A. Hussien, "Synthesis, Characterization, Theoretical, and Antimicrobial Studies of Indenoquinoxalin-based Ligands and their reactions with CuBr(PPh<sub>3</sub>)<sub>3</sub>", Journal of Molecular Structure, 2021, 130309-130348.  
DOI: [10.1016/j.molstruc.2021.130309](https://doi.org/10.1016/j.molstruc.2021.130309)
23. Babgi, Bandar A., Jalal Alsayari, Hana M. Alenezi, Magda H. Abdellatif, Naser E. Eltayeb, Abdul-Hamid M. Emwas, Mariusz Jaremko, and Mostafa A. Hussien. 2021. "Alteration of Anticancer and Protein-Binding Properties of Gold(I) Alkynyl by Phenolic Schiff Bases Moieties" *Pharmaceutics* 13, no. 4: 461-474.  
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24. Kijewska M, Sharfalddin AA, Jaremko Ł, Cal M, Setner B, Siczek M, Stefanowicz P, Hussien MA, Emwas A-H and Jaremko M (2021) Lossen Rearrangement of p-Toluenesulfonates of N-Oxyimides in Basic Condition, Theoretical Study, and Molecular Docking. *Front. Chem.* 9:662533-662544.  
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25. Abeer a sharfalddin and Mostafa A. Hissien, "Bivalence Metal Complexes of Antithyroid Drug Carbimazole; Synthesis, Spectral Characterization, Computational simulation and Biological Studies", *Journal of Molecular Structure* 1228 (2021) 1297725-129732 .  
<https://doi.org/10.1016/j.molstruc.2020.129725>.
26. Abeer Sharfalddin, bdul-Hamid Emwas, Mariusz Jaremko, Mostafa A Hussien, "Practical and Computational studies of Bivalence Metal Complexes of Sulfaclozine and Biological Studies" *Frontiers in Chemistry*, 2021 <http://dx.doi.org/10.3389/fchem.2021.644691>.
27. Nasser Mohammed Hosny, Arafa Belal, Rana Motawea, Mostafa A. Hussien, Mohamed H. Abdel-Rhman,, "Spectral characterization, DFT, docking and cytotoxicity of N-benzyl-4,5-dihydro-3-methyl-5-oxo-1H-pyrazole-4-carbothioamide and its metal complexes", *Journal of Molecular Structure*,2021,130020-130046. <https://doi.org/10.1016/j.molstruc.2021.130020>.
28. Magda H. Abdellatiif, Amena Ali, Abuzer Ali, Mostafa A. Hussien, "Computational studies by molecular docking of some antiviral drugs with COVID-19 receptors are an approach to medication for COVID-19", *Open Chemistry* 2021; 19: 1–20. DOI: <https://doi.org/10.1515/chem-2021-0024>.
29. Sammar Alsaedi , Bandar A. Babgi , Magda H. Abdellatif ,Muhammed N. Arshad , Abdul-Hamid M. Emwas , Mariusz Jaremko ,Mark G. Humphrey , Abdullah M. Asiri , and Mostafa A. Hussien, "Effect of Net Charge on DNA-Binding and Cytotoxicity of Copper(I) Complexes Containing Functionalized Dipyritylphenazine Ligands", *Pharmaceutics*, 2021, 13(5), 764;  
<https://doi.org/10.3390/pharmaceutics13050764>.
30. Abeer A. Sharfalddin, Abdul-Hamid Emwas, Mariusz Jaremko and Mostafa A. Hussien, Transition metal complexes of 6-mercaptopurine:Characterization, Theoretical calculation, DNA-Binding,molecular docking, and anticancer activity, *Appl Organomet Chem.* (2020) e6041-e6059.  
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<https://doi.org/10.3390/molecules26010076>.
32. Mohd Shahbaaz, Sameer H. Qari, Magda H. Abdellattif & Mostafa A. Hussien (2020) Structural analyses and classification of novel isoniazid resistance coupled mutational landscapes in *Mycobacterium tuberculosis*: a combined molecular docking and MD simulation study, *Journal of Biomolecular Structure and Dynamics*, 2020, 1-10. <https://doi.org/10.1080/07391102.2020.1861986>.
33. Hussien, M.A., Abdelaziz, A.E.M. Molecular docking suggests repurposing of brincidofovir as a potential drug targeting SARS-CoV-2 ACE2 receptor and main protease. *Netw Model Anal Health Inform Bioinforma* 9, 56 (2020). <https://doi.org/10.1007/s13721-020-00263-6>.
34. Hosny NM, Hussien MA, Motawa R, Belal A, Abdel-Rhman MH. Synthesis, Spectral, Modeling, Docking and Cytotoxicity Studies on 2-(2-aminobenzoyl)-N-ethylhydrazine-1-carbothioamide and its divalent metal complexes. *Appl Organomet Chem*. 2020;e5922. <https://doi.org/10.1002/aoc.5922>
35. Mona A. Alamri , Mutlaq Al-Jahdali , Najlaa S. Al-Radadi ,Mostafa A. Hussien, “Biological Activity Evaluation and Computational Study of Novel Triazene Derivatives Containing Benzothiazole Rings”, *Journal of Molecular Structure*, 2020. <https://doi.org/10.1016/j.molstruc.2020.129507>.
36. Bandar A. Babgi, Khlood H. Mashat, Magda H. Abdellattif , Muhammed N. Arshad, Khaled A. Alzahrani, Abdullah M. Asiri, Jun Du, Mark G. Humphrey, Mostafa A. Hussien, “Synthesis, Structures, DNA-Binding, Cytotoxicity and Molecular Docking of CuBr(PPh<sub>3</sub>)(diimine)”, *Polyhedron* , 192 (2020) 114847. <https://doi.org/10.1016/j.poly.2020.114847>.
37. Sharfalddin A, Davaasuren B, Emwas AH, Jaremko M, Jaremko Ł, Mostafa A. Hussien (2020) Single crystal, Hirshfeld surface and theoretical analysis of methyl 4-hydroxybenzoate, a common cosmetic, drug and food preservative—Experiment versus theory. *PLOS ONE* 15(10): e0239200.  
<https://doi.org/10.1371/journal.pone.0239200>.
38. Basma H. Amin Mohamed I. Abou-Dobara Mostafa A. Diab Essam A. Gomaa Mohammed A. El-Mogazy Adel Z. El-Sonbati Mohamed S. EL-Ghareib Mostafa A. Hussien Hanaa M. Salama, “Synthesis, characterization, and biological investigation of new mixed-ligand complexes”, *Applied Organometallic Chemistry*, 2020, 34(8)e5689. <https://doi.org/10.1002/aoc.5689>.
39. M.A. Hussein, K.A. Alamry, S.J. Almeahadi, M.A. Elfaky, H. Džudžević-Čančar, A.M. Asiri, M.A. Hussien, Novel biologically active polyurea derivatives and its TiO<sub>2</sub>-doped nanocomposites, *Designed Monomers and Polymers* 23(1) (2020) 59-74. <https://doi.org/10.1080/15685551.2020.1767490>.
40. M. Shahbaaz, A.S. Al-Samghan, A. Malik, S. Afaq, A.S. Alwabli, I. Ahmad, M.A. Hussien, M. Zubair, F. Fatima, S. Begum, O. Alzahrani, M. Tarique, Functional and Structural Analysis of Predicted Proteins Obtained from *Homo sapiens* Minisatellite 33.15-Tagged Transcript pAKT-45 Variants, *BioMed Research International* 2020 (2020) 2562950-2562959. <https://doi.org/10.1155/2020/2562950>.
41. Mohd Shahbaaz, Awad Saeed Al-Samghan, Arshi Malik, Sarah Afaq, Afaf S. Alwabli, Irfan Ahmad, Mostafa A. Hussien, Mohammad Zubair, Farha Fatima, Shamina Begum, Othman Alzahrani, Mohammed Tarique, "Functional and Structural Analysis of Predicted Proteins Obtained from *Homo sapiens*’ Minisatellite 33.15-Tagged Transcript pAKT-45 Variants", *BioMed Research International*, vol. 2020, Article ID 2562950, 9 pages, 2020. <https://doi.org/10.1155/2020/2562950>

42. Mohd Shahbaaz , Vladimir Potemkin, Krishna Bisetty, Md Imtaiyaz Hassan, and Mostafa A Hussien, "Classification and functional analyses of putative virulence factors of Mycobacterium tuberculosis: A combined sequence and structure based study", Computational Biology and Chemistry, 2020, 107270-107279. <https://doi.org/10.1016/j.compbiolchem.2020.107270>.
43. Saadullah G. Aziz, Shaaban A. Elroby, Abdesslem Jedidi, Bandar A. Babgi, Nujud S. Alshehri, Mostafa A. Hussien, "Synthesis, characterization, computational study, DNA binding and molecular docking studies of chromium (III) drug-based complexes", Journal of Molecular Structure, 1215,(2020),128283-128294. <https://doi.org/10.1016/j.molstruc.2020.128283>.
44. Naser E. Eltayeb, Jamal Lasri, Saied M. Soliman, Charalampos Mavromatis, Dina Hajjar, Sobhy E. Elsilik, Bandar A. Babgi, Mostafa A. Hussien, "Crystal structure, DFT, antimicrobial, anticancer and molecular docking of (4E)-4-((aryl)methyleneamino)-1,2-dihydro-2,3-dimethyl-1-phenylpyrazol-5-one", Journal of Molecular Structure, 1213,2020,128185-128198. <https://doi.org/10.1016/j.molstruc.2020.128185>.
45. Mona S Alsaedi, Bandar A Babgi, Mostafa A Hussien, Magda H Abdellattif, Mark G Humphrey," DNA-Binding and Anticancer Activity of Binuclear Gold (I) Alkynyl Complexes with a Phenanthrenyl Bridging Ligand", Molecules, 25(2020)5, 1033-1047. <https://doi.org/10.3390/molecules25051033>.
46. M. H. Abdellattif, O. A. Ali, M. H. Arief, M. A. Hussien, "One pot System Synthesis of Novel Derivatives of Oxadiazine-4-thione, and its antibacterial activity, and Molecular modeling studies", Current organic synthesis, 2020, 17(3), 230 – 242. <https://doi.org/10.2174/1570179417666200218092047>.
47. Naser E Eltayeb, Fatih Şen, Jamal Lasri, Mostafa A Hussien, Sobhy E Elsilik, Bandar A Babgi, Halil Gökce, Yusuf Sert," Hirshfeld Surface analysis, spectroscopic, biological studies and molecular docking of (4E)-4-((naphthalen-2-yl) methyleneamino)-1, 2-dihydro-2, 3-dimethyl-1-phenylpyrazol-5-one". Journal of Molecular Structure,1202(2020) 127315-127330. <https://doi.org/10.1016/j.molstruc.2019.127315>.
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49. Mona Alamri, Mostafa A Hussien, and Mutlaq Al-Jahdali, "Synthesis and Biochemical Study of Some Heterocyclic-Azo Compounds and their Copper (II) Complexes" 19th International Conference on Biological Inorganic Chemistry (ICBIC-19). <https://www.chem.uzh.ch/en/icbic19.html>.
50. Bandar A.Babgia, Magda H.Abdellattif, Mostafa A.Hussien, Naser E.Eltaye, "Exploring DNA-Binding and anticancer properties of benzoimidazolyl-ferrocene dye" 1198(2019)126918-126925. <https://doi.org/10.1016/j.molstruc.2019.126918>.
51. Nujud S. Alshehr, Mostafa A Hussien, and Amal BasalehAmal Basaleh, "Preparation, Characterization and DNA binding of 1-((2-chlorophenyl)diphenylmethyl)-1H-imidazole with Plantinum(II)Complex", 10th Scientific Forum for King Abdulaziz University Students, King Abdulaziz University, Jeddah, 2019.
52. Nasser M. Hosny Mohamed H. Abdel-Rhman, Mostafa A. Hussien , Heba M. Mahmoud, "Synthesis, characterization, molecular docking and cytotoxicity studies on N-benzyl-2-isonicotinoylhydrazine-1-carbothioamide and its metal complexes", Journal of Molecular Structure, 1196 (2019)417-428. <https://doi.org/10.1016/j.molstruc.2019.06.092>.

53. Khlood H. Mashat, Bandar A.Babgi, Mostafa A. Hussien, Muhammad Nadeem Arshad, Magda H.Abdellattif, Synthesis, structures, DNA-binding and anticancer activities of some copper(I)-phosphine complexes, *Polyhedron*, 158, (2019) 164-172. <https://doi.org/10.1016/j.poly.2018.10.062>.
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58. Mostafa.A.Hussien, W.Fathalla, F. M. Abd-Elrahim, M.I.Megahed,"Synthesis and characterization of some metal complexes of 2- Phenyl-3,4-dihydro-quinazolin-4-yloxy)-acetic acid and their Biological Application",*Journal of Applied Chemistry*, 10, 3 Ver. I (2017), 21-32.
59. Alaa S Amin, Mostafa A Hussien and Dina A Khedr ,“ Synthesis, thermal, molecular structure, molecular docking and biological study of 1-(2-thiazolylazo)-2-naphthalenol with Zn (II), Cd (II) and Pb (II)”, *Mansoura Journal of Environmental Sciences - Egypt JOESE* 46 ( 2017) 1, 1-24.
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