

CURRICULUM VITAE

PERSONAL DATA

Name	Magdi ElSayed AbdelSalam Zaki
Nationality	Egyptian
Position	Professor of Organic Chemistry
E-Mail	Mezaki@imamu.edu.sa
Phone	01125894648

EDUCATION

Year	Academic Degree	Institution
1980	B.Sc. Chemistry- Zoology	Faculty of Science Ain Shams University Cairo Egypt
1983	M. Sc. Organic Chemistry	Faculty of Science, Al-Azhar University. Cairo, Egypt
1990	Ph. D. Organic Chemistry	Faculty of Science, Cairo University, Cairo, Egypt

WORK EXPERIENCE

Period	Position	Address
Oct. 1980 - Nov. 1984	Researcher Assistant	Organic Chemistry Department. National Research Centre, Cairo, Egypt
Nov. 1984 – April 1990	Assistant Researcher	Organic Chemistry Department. National Research Centre, Cairo, Egypt
April 1990 – Sep. 1991	Researcher	Photochemistry Department. National Research Centre, Cairo, Egypt
1991 Sep.- Jan 1993	Invited Researcher	Faculty of Chemistry, Institute of Organic Chemistry and Technology, Silesian Technical University, Gliwice, Poland. Financed from Polish Ministry of Education.
Jan 1993 - July. 1994	Invited	Faculty of Chemistry, Konstanz University, Konstanz, Germany.

	Researcher	
Sep.1995 - July. 1996	Invited Associate Professor	Faculty of Chemistry, Institute of Organic Chemistry and Technology, Silesian Technical University, Gliwice, Poland. Financed from Polish Ministry of Education.
May 1997- Sep. 2009	Associate Professor	Photochemistry Department, National Research Centre, Cairo, Egypt.
Sep. 2009- 2012	Professor	Photochemistry Department, National Research Centre, Cairo, Egypt.
April 1999 – October 2012	Visiting Prof.	Chemistry Department, Centre of Chemistry, School of Science, Minho University, Braga, Portugal.
October 2012- up till now	Professor of Organic Chemistry	Chemistry Department, Science College, Al- Imam Mohammad Ibn Saud Islamic University, Riyadh, KSA.

RESEARCH INTERESTS

The ability to synthesize molecules is of fundamental importance and at the core of advances in every technological field. We seek to advance the synthetic art and to solve chemical problems in areas such as heterocyclic synthesis and medicinal chemistry, natural products application in water treatment, and Exploring new Nano-catalysts, Current focus areas include.

The main research interest is

- 1- Synthesis of Nitrogen Heterocycles with Potential Biological Activity.
- 2- The reaction mechanism and ring transformation.
- 3- Transition metal chelates as potent new anticancer agents.
- 4- Drug Design.
- 5- Degradation of Organic Pollutants from Aqueous Systems
- 6- Bioinformatics
- 7- Natural Products and its nanomaterials in water treatment.
- 8- Design and Synthesis of Nano-catalysts.

PUBLICATIONS

A. International Journals:

1. Himporna Nath, Ankita Khataniar, Kusum K. Bania, Nobendu Mukerjee, Sami A. Al-Hussain, Magdi E. A. Zaki and Sanchaita Rajkhowa, Nano-functionalization and evaluation of antimicrobial activity of *Tinospora cordifolia* against the TolB protein of *Pseudomonas aeruginosa* – An antibacterial and computational study, **Front. Microbiol. Sec. Antimicrobials, Resistance and Chemotherapy** Volume 14 - 2023 | <https://doi.org/10.3389/fmicb.2023.1138106>
2. Muhammad Adnan Khan, Afaq Ullah Khan, Kamran Tahir, Munirah Sulaiman Othman Alhar, Magdi E.A. Zaki, Talal M. Althagafi, Abdulaziz A. Alanazi, Sameerah I. Al-Saeedi, Hamza S. Al-Shehri, Sadia Nazir, Synthesis of Zr–Fe₂O₃/In₂O₃ photocatalyst by novel hydrothermal method for highly selective photo inhibition of pathogens, pollutant degradation and DPPH stabilization, **Materials Chemistry and Physics**, 2023, 127746
3. Noor, Rida, Ameer Fawad Zahoor, Asim Mansha, Samreen Gul Khan, Atta UI Haq, Sajjad Ahmad, Sami A. Al-Hussain, Ali Irfan, and Magdi E. A. Zaki. 2023. "Synthetic Potential of Regio- and Stereoselective Ring Expansion Reactions of Six-Membered Carbo- and Heterocyclic Ring Systems: A Review" **International Journal of Molecular Sciences** 24, no. 7: 6692. <https://doi.org/10.3390/ijms24076692>
4. Magdi E. A. Zaki Muhammad Atif Irshad, Basharat Ali, Ali Irfan, Sami A. Al-Hussain, Rab Nawaz, Iqra Nasim, Maria Latif ,Sustainable and safe treatment of wastewater of paint industry using *Azadarachta indica* leaf extract combined with silver nitrate solution, **Sustainability**, 2023, 15
5. Violetta Rakic Violeta Jevtovic, Afaq Ullah Khan, Zainab M. Almarhoon, Kamran Tahir, Salman Latif, Fahad Abdulaziz, Karma Albalawi, Magdi E. A. Zaki Synthesis of MnSe-based GO composites as effective photocatalyst for environmental remediations, **Nanomaterials**, 2023, 13
6. Moataz Morad, Magdi EA Zaki, Moustafa Sanad, Abbas I. Alakhras and Ahmed A. Farag Ahmed Fawzy, Arafat Toghan, Nada Alqarni, , Experimental and Computational Exploration of chitin, pectin and amylopectin Polymers as Efficient Eco-friendly corrosion inhibitors for mild steel in acidic environment, **Polymers**, 2023,
7. Magdi E. A. Zaki Nida Iqbal, Sami Al Hussain, Fozia Batool *, Amina Mumtaz, Ali Irfan, Sobia Noreen, Muhammad Mustaqeem Alginate based sustainable green composites of polymer and reusable birm for mitigation of malachite green dye: Characterization and application for water decontamination, **Sustainability**, 2023, 15,
8. Gomha SM, Riyadh SM, Alharbi RAK, Zaki MEA, Abolibda TZ, Farag B. Green Route Synthesis and Molecular Docking of Azines Using Cellulose Sulfuric Acid under Microwave Irradiation. **Crystals**. 2023; 13(2):260. <https://doi.org/10.3390/cryst13020260>
9. Sayed F. Abdelwahab Heba Ali Hassan, Eslam A.R. Mohamed, Islam M. Abdel-Rahman, Magdi E. A. Zaki, Ahmad Al-Khdhairawi, Mahmoud M. Abdelhamid, Ahmad M. Alqaisi, Lyana binti Abd Rahim, Bilal Abu-Hussein, Azza A.K. El-Sheikh, In silico prediction of potential inhibitors for SARS-CoV-2 omicron variant using molecular D ocking and dynamics simulation-based drug-repurposing, **Journal of Molecular Modeling**, 2023,29
10. Irfan A, Zahoor AF, Rasul A, Al-Hussain SA, Faisal S, Ahmad S, Noor R, Muhammed MT, Zaki MEA. BTEAC Catalyzed Ultrasonic-Assisted Synthesis of Bromobenzofuran-Oxadiazoles: Unravelling Anti-HepG-2 Cancer Therapeutic Potential through In Vitro and In Silico Studies. **International Journal of Molecular**

Sciences. 2023; 24(3):3008. <https://doi.org/10.3390/ijms24033008>

11. Kanwal S, Irfan A, Al-Hussain SA, Sharif G, Mumtaz A, Batool F, Zaki MEA. Fabrication of Composites of Sodium Alginate with Guar Gum and Iron Coated Activated Alumina for the Purification of Water from Direct Blue 86. **Coatings.** 2023; 13(1):103. <https://doi.org/10.3390/coatings13010103>
12. Abolibda TZ, Fathalla M, Farag B, Zaki MEA, Gomha SM. Synthesis and Molecular Docking of Some Novel 3-Thiazolyl-Coumarins as Inhibitors of VEGFR-2 Kinase. **Molecules.** 2023; 28(2):689. <https://doi.org/10.3390/molecules28020689>
13. Rasool MA, Sattar R, Anum A, Al-Hussain SA, Ahmad S, Irfan A, Zaki MEA. An Insight into Carbon Nanomaterial-Based Photocatalytic Water Splitting for Green Hydrogen Production. **Catalysts.** 2023; 13(1):66. <https://doi.org/10.3390/catal13010066>
14. Magdi E.A.Zaki, Amrut Gunwantrao Gaddamwar, Vijay Hariram Masand, ROCESSFOR PREPARATIONOF ALIPHATIC.AROMATIC CHELATEDAMINOACID SALTSFROMION TURPALE, **ZA PATENT 2022/07069**
15. Irshad, M.A.; Humayoun, M.A.; Al-Hussain, S.A.; Nawaz, R.; Arshad, M.; Irfan, A.; Zaki, M.E.A. Green and Eco-Friendly Treatment of Textile Wastewater by Using Azadirachta indica Leaf Extract Combined with a Silver Nitrate Solution. **Sustainability** 2023, **15**, 81. <https://doi.org/10.3390/su15010081>
16. Aziz Ullah Khan, Hidayat Ullah Khan, Munirah Sulaiman Othman Alhar, Kamran Tahir, Zainab M Almarhoon, Magdi EA Zaki, Salman Latif, Afzal Shah, Afaq Ullah Khan, **Inorganic Chemistry Communications**, Available online 14 December 2022, 110297, <https://doi.org/10.1016/j.inoche.2022.110297>
17. Magdi E. A. Zaki Samia Kanwal, Ali Irfan, Sami A. Al-Hussain, Gulnaz Sharif, Amina, Mumtaz, Fozia Batool, Fabrication of Composites of Sodium Alginate with Guar Gum and Iron Coated Activated Alumina for the Purification of Water from Direct Blue 86, **Coatings**, **2023**, 13(1), 103
18. Magdi E. A. Zaki * Asghar Rasool, Rabia Sattar, Ayesha Anum, Samil Al Hussain, Sajjad Ahmad, Ali Irfan, An Insight into Carbon Nanomaterial-Based Photocatalytic Water Splitting For Green Hydrogen Production, **Catalysts**, **2023**, 13(1), 66
19. Muhammad Arif Ullah, Munirah Sulaiman Othman Alhar, Afaq Ullah Khan, Kamran Tahir, Magdi E. A. Zaki, Eman A. Alabbad, Ebraheem Abdu Musad Saleh, Hassan M. A. Hassan, Adel A. El-Zahhar, Alaa M Munshi, Photocatalytic removal of alizarin red and photoinhibition of microbes in the presence of surfactant and Bio-template mediated Ag/SnO₂/Nb₂O₅-SiO₂ nanocomposite, **Journal of Molecular Liquids**, 2023, 370, 121042, <https://doi.org/10.1016/j.molliq.2022.121042>,
20. Mohsin, N.u.A.; Aslam, S.; Ahmad, M.; Irfan, M.; Al-Hussain, S.A.; Zaki, M.E.A. Cyclooxygenase-2 (COX-2) as a Target of Anticancer Agents: A Review of Novel Synthesized Scaffolds Having Anticancer and COX-2 Inhibitory Potentialities. **Pharmaceuticals** **2022**, 15, 1471. <https://doi.org/10.3390/ph15121471>
21. Munir, S.; Khurshid, M.; Ahmad, M.; Ashfaq, U.A.; Zaki, M.E.A. Exploring the Antimicrobial and Pharmacological Potential of NF22 as a Potent Inhibitor of *E. coli* DNA Gyrase: An In Vitro and In Silico Study. **Pharmaceutics** **2022**, 14, 2768. <https://doi.org/10.3390/pharmaceutics14122768>

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23. Kassab, R. M., A Zaki, M. E., Abo Dena, A. S., Al-Hussain, S. A., Abdel-Aziz, M. M., & Muhammad, Z. A. Novel Set of Highly Substituted Bis-pyridines: Synthesis, Molecular Docking and Drug-Resistant Antibacterial Profile. *Future Medicinal Chemistry*, (0).. DOI: [10.4155/fmc-2022-0196](https://doi.org/10.4155/fmc-2022-0196). PMID: 36420816.
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27. Rubab, L.; Anum, A.; Al-Hussain, S.A.; Irfan, A.; Ahmad, S.; Ullah, S.; Al-Mutairi, A.A.; Zaki, M.E.A. Green Chemistry in Organic Synthesis: Recent Update on Green Catalytic Approaches in Synthesis of 1,2,4-Thiadiazoles. *Catalysts* **2022**, *12*, 1329. <https://doi.org/10.3390/catal12111329>
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29. Farghaly, Thoraya A.; Al-Hussain, Sami A.; Zaki, Magdi E.A.; Asghar, Basim H.; Muhammad, Zeinab A., Synthesis of Spiropyrazoles Under Organic and Nonorganic Catalysis, *Current Organic Chemistry*, Volume 26, Number 9, 2022, pp. 834-856(23), <https://doi.org/10.2174/1385272826666220517220157>
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- Abuzenadah, Arabinda Ghosh and Ghulam Md Ashraf, *Frontiers in Aging Neuroscience*, 2022, 14:878276, [DOI: 10.3389/fnagi.2022.878276](https://doi.org/10.3389/fnagi.2022.878276), [PMCID: PMC9443073](https://pubmed.ncbi.nlm.nih.gov/35331121/)
33. Muhammad ZA, Farghaly TA, Al-Hussain SA, Edrees MM, Zaki MEA, Shabaan SN. Dry Grinding Synthesis and Docking Study of Cyclopentanone-Sulfur Containing Compounds with Anti-Proliferative Activity for HepG-2 and A-549 Cancer Cell Lines. *Med Chem*. 2022;18(10):1086-1099. [doi: 10.2174/1573406418666220324155119](https://doi.org/10.2174/1573406418666220324155119). [PMID: 35331121](https://pubmed.ncbi.nlm.nih.gov/35331121/).
34. RD Jawarkar, Ravindrakumar L Bakal, Magdi E. A Zaki, Sami Al-Hussain, Arabinda Ghosh, Ajaykumar Gandhi, Nobendu Mukerjee, Abdul Samad, Vijay H Masand, Israa Lewaa , QSAR based virtual screening derived identification of a novel hit as a SARS CoV-229E 3CLpro Inhibitor: GA-MLR QSAR modeling supported by molecular Docking, molecular dynamics simulation and MMGBSA calculation approaches, *Arabian Journal of Chemistry*, Volume 15, Issue 1, January 2022, 103499, <https://doi.org/10.1016/j.arabjc.2021.103499>
35. Ravindra L. Bakal, Rahul D.Jawarkar, J.V.Manwarb Minal S. Jaiswal Arabinda Ghosh Ajaykumar Gandhi, Magdi E.A.Zaki, SamiAl-Hussain, Abdul Samad, Vijay H.Masand, Nobendu Mukerjeeh, Syed Nasir Abbas Bukhari, Praveen Sharmak Israa Lewaa, Identification of potent aldose reductase inhibitors as antidiabetic (Anti-hyperglycemic) agents using QSAR based virtual Screening, molecular Docking, MD simulation and MMGBSA approaches, *Saudi Pharmaceutical Journal*, 2022, Volume 30, Issue 6, June 2022, Pages 693-710.
36. Sobhi M. Gomha, Zeinab A. Muhammad, Sami A. Al-Hussain, Magdi E. A. Zaki & Hassan M. Abdelaziz (2022) Synthesis, Characterization, and Antimicrobial Evaluation of Some New 1,4-Dihydropyridine Hybrid with 1,3,4-Thiadiazole, *Polycyclic Aromatic Compounds*, 2022, 42:4, 1697-1709, [DOI: 10.1080/10406638.2020.1804410](https://doi.org/10.1080/10406638.2020.1804410)
37. Zaki, M.E.A.; Al-Hussain, S.A.; Al-Mutairi, A.A.; Masand, V.H.; Samad, A.; Jawarkar, R.D. Mechanistic Analysis of Chemically Diverse Bromodomain-4 Inhibitors Using Balanced QSAR Analysis and Supported by X-ray Resolved Crystal Structures. *Pharmaceuticals* 2022, 15, 745. doi.org/10.3390/ph15060745
38. El-Sayed NNE, Zaki MEA, Al-Hussain SA, Ben Bacha A, Berredjem M, Masand VH, Almarhoon ZM, Omar HS. Synthesis and Evaluation of Some New 4H-Pyran Derivatives as Antioxidant, Antibacterial and Anti-HCT-116 Cells of CRC, with Molecular Docking, Antiproliferative, Apoptotic and ADME Investigations. *Pharmaceuticals*. 2022; 15(7):891. doi.org/10.3390/ph15070891
39. Jawarkar, Rahul D., Ravindra L. Bakal, Nobendu Mukherjee, Arabinda Ghosh, Magdi E. A. Zaki, Sami A. Al-Hussain, Aamal A. Al-Mutairi, Abdul Samad, Ajaykumar Gandhi, and Vijay H. Masand. "QSAR Evaluations to Unravel the Structural Features in Lysine-Specific Histone Demethylase 1A Inhibitors for Novel Anticancer Lead Development Supported by Molecular Docking, MD Simulation and MMGBSA" *Molecules*, 2022, 27, no. 15: 4758. doi.org/10.3390/molecules27154758

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41. Refaie M Kassab, Sami A Al-Hussain, Nooran S Elleboudy, Amgad Albohy, Magdi EA Zaki, Khaled AM Abouzid & Zeinab A Muhammad, Tackling Microbial Resistance with Isatin Decorated Thiazole Derivatives: Design, Synthesis, and in vitro Evaluation of Antimicrobial and Antibiofilm Activity, *Drug Design, Development and Therapy* 2022:16 2817–2832, doi.org/10.2147/DDDT.S365909
42. Afaq Ullah Khan, Kamran Tahir, Karma Albalawi, Mona Y. Khalil, Zainab M. Almarhoon, Magdi E.A.Zaki, Salman Latif, Hassan M.A.Hassan, Moamen S.Refat, Alaa M.Munshi, Synthesis of ZnO and ZnS nanoparticles and their structural, optical, and photocatalytic properties synthesized via the wet chemical method, *Materials Chemistry and Physics*, 2022, Volume 291, 15 November, 126667, doi.org/10.1016/j.matchemphys.2022.126667
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47. Debanjan Sen, Bimal Debnath, Pradip Debnath, Sudhan Debnath, Magdi E. A. Zaki & Vijay H. Masand, Identification of potential edible mushroom as SARS-CoV-2 main protease inhibitor using rational drug designing approach, *Scientific Reports* volume 12, Article number: 1503 (2022)

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56. Magdi E.A. Zaki, Sami A. Al-Hussain, Vijay H. Masand, Manoj K. Sabnanai and Abdul Samad, Mechanistic and predictive QSAR analysis of diverse molecules to capture salient and hidden pharmacophores for anti-thrombotic activity , **International Journal of Molecular Science**, 2021
57. Vijay H. Masand, Md Fulbabu Sk, ParimalKar,Vesna Rastija, Magdi E.A.Zaki, Identification of Food Compounds as Inhibitors of SARS-CoV-2 Main Protease Using Molecular Docking and Molecular Dynamics Simulations, **Chemometrics and Intelligent Laboratory Systems, online 22**

58. Furqan Ahmad Saddique , Sana Aslam , Matloob Ahmad, Usman Ali Ashfaq, Muhammad Muddassar, Sadia Sultan Saman Taj, Muzammil Hussain , Dae Sung Lee and Magdi E. A. Zaki, Synthesis and α -Glucosidase Inhibition Activity of 2-[3-(Benzoyl/4-bromobenzoyl)-4-hydroxy-1,1-dioxido-2Hbenzo[e][1,2]thiazin-2-yl]-N-arylacetamides: An In Silico and Biochemical Approach, ***Molecules***, 2021,26(10),3043, doi.org/10.3390/molecules26103043 (I.F. 4.427)
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