

Curriculum Vitae

Prof. Dr. Tarik El-Sayed Ali Ismail

Professor of Organic Chemistry

Department of Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt.

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Personal Data

Name : **Tarik El-Sayed Ali Ismail**
Nationality : Egyptian
Date of Birth : 3rd Jan 1975
Marital status : Married
Spouse name : Dr. Hanaa R. Aboelwafa (Ass. Prof. Zoology)
Children : Two Daughters (16 and 4 years) and
Son (9 year)



Academic Qualifications

- **Bachelor of Science:** (Chemistry and Physics), with very Good, 1st with honor from Ain Shams University, Cairo, Egypt (1994-1997).
- **General diploma:** (Chemistry), from Ain Shams University, Cairo, Egypt (1998).
- **Special diploma:** (Organic Chemistry), from Ain Shams University, Cairo, Egypt (1999).
- **Master of Science:** (Organic Chemistry), "Synthesis of some new phosphorus derivatives of 1,2,4-Triazine" Ain Shams University, Cairo, Egypt (2000-2001).
- **Ph.D.:** (Organic Chemistry), "Synthesis and reactions of some new 4-oxo-4H-1-benzopyrans" from Ain Shams University, Cairo, Egypt (2002-2005).

Teaching Experience

- **1998-2001:** A demonstrator in Department of Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. Along this period I taught different undergraduate practical studies in all branches of organic chemistry.
- **2002-2005:** A assistant teacher in Department of Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. Along this period I taught different undergraduate practical studies in all branches of organic chemistry.
- **2005-2010:** A lecturer in Department of Chemistry, Faculty of Education, Ain Shams University Roxy, Cairo, Egypt. Along this period I taught different undergraduate studies in all branches of organic chemistry (Reaction mechanism, Spectroscopy, biochemistry, heterocyclic compounds...).
- **2011-2016:** Assistant professor in department chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. Along this period I taught different undergraduate and post gradual studies in all branches of organic chemistry (Reaction mechanism, Spectroscopy, biochemistry, heterocyclic compounds ...).
- **2016 till now:** full professor in department chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. Along this period I taught different undergraduate and post gradual studies in all branches of organic chemistry (Reaction mechanism, Spectroscopy, biochemistry, heterocyclic compounds ...).

Research Interest

- ✚ Design, synthesis and chemical reactivity of chromone compounds containing sulfur and phosphorus heterocycles.
- ✚ Design, synthesis and characterization of 1,2,4-triazine compounds containing sulfur and phosphorus heterocycles.

- ✚ Design, synthesis and characterization of novel classes of α -amino-phosphonate and α -hydrazinophosphonate bearing different heterocyclic systems with new biological properties.
- ✚ Good research experience in the area of synthesis, spectral and bioactivity studies of organophosphorus heterocyclic compounds

Reviewing Experience

* An editorial board member in:

The International Journal of Materials and Chemistry

* Reviewing of several theses in Egyptian universities and other countries.

* Reviewing more than 150 manuscripts in the following journals:

- Journal of Organic Chemistry
- European Journal of Medicinal Chemistry
- Phosphorus, Sulfur and Silicon and Related Elements
- Journal of Sulfur Chemistry
- Heteroatom Chemistry
- Journal of Heterocyclic Chemistry
- Synthetic Communication
- Medicinal Chemical Research
- Journal of Molecular Structure
- Current Organic Synthesis
- European Journal of Chemistry
- Molecules
- Medicinal Chemistry Communication
- Research on Chemical Intermediates
- Journal of Serbian Chemical Society
- Archiv der Pharmazie
- Mini-Reviews in Medicinal Chemistry
- Letters In Drug Design & Discovery
- Letters in Organic Chemistry
- SciPharm
- Green Chemistry Letters and Reviews
- Journal of Advanced Research
- Australian Journal of Chemistry
- International Research Journal of Pure and Applied Chemistry

- Synth. Reactivity in Inorg. Metal-Org. Nano-Metal Chem
- Journal of International Research
- The Chemical Society of Ethiopia
- Bulgarian Chemical Communications
- Journal of International Research in Medical and Pharmaceutical Sciences
- Journal of Microbiology and Antimicrobials
- Microbiological Research
- Open Pharmaceutical Sciences Journal
- Journal of Chemica Acta

Honours and Awards

- ✚ Postdoctoral fellowship for 3 months in Institute of polymers, Bulgarian Academy of science, Sofia, Bulgaria 2007.
- ✚ His article which was published in Journal of sulfur chemistry 2009 was classified as excellent article in this year (He received financial prize).
- ✚ His CV was involved in Who's Who in the World in 2011, 2012, 2013, 2015, 2016, 2017 and 2018.
- ✚ He won with the best research article in Egyptian universities and research centers (Heterocyclic chemistry field) in 2011.

Conferences Attended

1. The Sixth international conference on applied chemistry, 24-28 May 2007, Varna, Bulgaria.
2. The Eighth International Symposium on new trends in chemistry, Jan 3-7, 2009, Cairo, Egypt.
3. “14rd International Electronic Conference on Synthetic Organic Chemistry, 1-30 November 2010. <http://www.sciforum.net>.
4. The 1st Conference on Science Diplomacy and Developments in Chemistry 24-26 November 2012, Alexandria – Egypt.
5. “16rd International Electronic Conference on Synthetic Organic Chemistry, 1-30 November 2012. <http://www.sciforum.net>.

6. "17th International Electronic Conference on Synthetic Organic Chemistry, 1-30 November 2013. <http://www.sciforum.net>.
7. "18th International Electronic Conference on Synthetic Organic Chemistry, 1-30 November 2014. <http://www.sciforum.net>.
8. "13th IBN SINA International Conference on Pure and Applied Heterocyclic Chemistry" 14-17 February 2015, Hurghada, Egypt.
9. "International Conference on Chemical, Pharmaceutical Sciences & Applications 8-11 August 2017, Sharm El-Sheikh. Egypt.

Supervision of Scientific Thesis

He participated in the following Master and PhD Degrees:

1. Master of Somaia M. Abdel-Kariem, entitle "*Utility of phosphonic dihydrazide in synthesis of biologically active heterocyclic systems*" **2011**.
2. Master of Amira M. Abdel-Monem, entitle "*Synthesis and chemical reactivity of 6,8-dibromo-7-hydroxychromone-3-carboxaldehyde towards some nucleophilic reagents*" **2013**.
3. Master of Eman M. Al-Amin, entitle "*Utility of 4,6-diacetylresorcinol in synthesis of expected biologically active heterocyclic systems*" **2013**.
4. PhD of Somaia M. Abdel-Kariem, entitle "*Synthesis, spectral characterization and biological evaluation of some novel organophosphorus compounds*" **2014**.
5. Master of Marwa M. Osman, entitle "*Reaction of 3-formylchromone hydrazones with some phosphorus reagents: Synthesis and biological evaluations of Some new phosphorus compounds*" **2017**.
6. Master of Noha M. Hassanien, entitle "*Synthesis and biological evaluations of some novel Phosphorus Compounds Containing Chromene Ring*" **2018**.

Research Publications

Scopus data: ORCID code: 16644861600, Citation times: 575, H-index: **12** (Till 1-4-2019)

Google scholar: Citation times: 865, H-index: **16** (Till 10-4-2018).

Published Papers

- [1] **Tarik E. Ali** "Synthesis and fungicidal activity of some new 4H-chromen-4-ones containing some 1,3-thiazole, 1,3-thiazine, 1,2,4-triazole and 1,2,4-triazine moieties" Phosphorus, Sulfur and Silicon and related Elements **2007**, 182(8), 1717-1726.
- [2] **Tarik E. Ali** and Wafaa R. Abdel-Monem "Synthesis of some new 9-hetero-arylcarbazole derivatives with expected biological activity" International Journal of Chemistry **2007**, 17(4), 303-314.
- [3] **Tarik E. Ali** "Synthesis and characterization of novel bis-(α -aminophosphonates with terminal chromone moieties" Arkivoc **2008**, ii, 71-79.
- [4] **Tarik E. Ali**, S. A. Abdel-Aziz, H. M. El-Shaaer, F. I. Hanafy and A. Z. El-Fauomy "Synthesis of some new 4-oxo-4H-chromene derivatives bearing nitrogen heterocyclic systems as antifungal agents" Turkish Journal of Chemistry **2008**, 32, 365-374.
- [5] **Tarik E. Ali**, S. A. Abdel-Aziz, H. M. El-Shaaer, F. I. Hanafy and A. Z. El-Fauomy "Synthesis of bioactive 4-oxo-4H-chromenes bearing heterocyclic systems from hydrazine-carbodithioic acid and thiocarbohydrazone" Phosphorus, Sulfur and Silicon and related Elements **2008**, 183(9), 2139-2160.
- [6] **Tarik E. Ali** and Wafaa R. Abdel-Monem, "Chemoselective pathway to 3-hetero-aryliminomethyl-4-oxo-4H-chromenes: Reaction of 4-oxo-4H-chromene-3-carboxaldehyde thiosemicarbazones with electrophiles in basic media" Phosphorus, Sulfur and Silicon and related Elements **2008**, 183(9), 2161-2172.
- [7] **Tarik E. Ali**, R. M. Abdel-Rahman, F. I. Hanafy and S. M. El-Edfawy, "Synthesis and molluscicidal activity of phosphorus containing heterocyclic compounds derived from 5,6-bis(4-bromophenyl)-3-hydrazino-1,2,4-triazine" Phosphorus, Sulfur and Silicon and related Elements **2008**, 183(10), 2565-2577.
- [8] **Tarik E. Ali** and Silvia S. Halacheva "Synthetic approach of novel bis(α -amino-phosphonic acid) derivatives of chromone containing 1,2,4,3-triazaphosphole moieties" Heteroatom Chemistry **2009**, 20, 117-122.
- [9] **Tarik E. Ali**, Magdy A. Ibrahim, Somaia M. Abdel-Kariem "Synthesis of biologically active 4-oxo-4H-chromene derivatives containing sulfur-nitrogen heterocycles" Phosphorus, Sulfur and Silicon and related Elements **2009**, 184(9), 2358-2392.

- [10] **Tarik E. Ali** "Synthesis of some novel pyrazolo[3,4-b]pyridine and pyrazolo[3,4-d]pyrimidine derivatives bearing 5,6-diphenyl-1,2,4-triazine moiety as potential antimicrobial agents" *European Journal of Medicinal Chemistry* **2009**, 44, 4385-4392.
- [11] **Tarik E. Ali** "Synthesis and antibacterial activity of some new thiadiazatriazaphospholes, thiadiazatriaza/tetrazaphosphinines and thiadiazatriazaphosphines containing 1,2,4-triazinone moiety" *European Journal of Medicinal Chemistry* **2009**, 44, 4539-4546.
- [12] **Tarik E. Ali** "Utility of thiocarbohydrazide in heterocyclic synthesis" *Journal of Sulfur Chemistry* **2009**, 30(6), 611-647.
- [13] **Tarik E. Ali** "Synthesis of some new 1,3,2-oxazaphosphinine, 1,3,2-diazaphosphinine, acyclic and/or cyclic α -aminophosphonate derivatives containing chromone moiety" *Phosphorus, Sulfur and Silicon and related Elements* **2010**, 185(1), 88-96.
- [14] **Tarik E. Ali**, Magdy A. Ibrahim "Synthesis and antimicrobial activity of chromone-linked 2-pyridone fused with 1,2,4-triazoles, 1,2,4-triazines and 1,2,4-triazepines ring systems" *Journal of Brazilian Chemical Society* **2010**, 21(6), 1007-1016.
- [15] **Tarik E. Ali**, Azza M. El-Kazak "Synthesis and antimicrobial activity of some new 1,3-thiazoles, 1,3,4-thiadiazoles, 1,2,4-triazoles and 1,3-thiazines incorporating acridine and 1,2,3,4-tetrahydro-acridine moieties" *European Journal of Chemistry* **2010**, 1(1), 6-11.
- [16] Magdy A. Ibrahim, **Tarik E. Ali**, Youssef A. Alnamer and Yassin A. Gabr "Synthesis and chemical reactivity of 2-methylchromones" *Arkivoc* **2010**, i, 98-149.
- [17] Reda M. Abdel-Rahman, Mohammed S. T. Makki, **Tarik E. Ali** and Magdy A. Ibrahim "1,2,4-Triazine chemistry Part I: Orientation of cyclization reactions of functionalized 1,2,4-triazine derivatives" *European Journal of Chemistry* **2010**, 1(3), 236-245.
- [18] Reda M. Abdel-Rahman, Magdy. A. Ibrahim and **Tarik E. Ali** "1,2,4-Triazine chemistry Part II: Synthesis of phosphorus containing 1,2,4-triazine derivatives" *European Journal of Chemistry* **2010**, 1(4), 388-396.
- [19] Salah A. Abdel-Aziz, **Tarik E. Ali**, Kamilia M. El-Mahdy and Somaia M. Abdel-Karim "Synthesis and antimicrobial activities of some novel bis-pyrazole derivatives containing a hydrophosphoryl unit" *European Journal of Chemistry* **2011**, 2(1), 25-35.
- [20] S. A. Abdel-Aziz, H. M. El-Shaaer, F. I. Hanafy, **Tarik E. Ali** and A. Z. El-Fauomy "Synthesis, antifungal activity and semi-empirical AM1-MO calculations of some new 4-oxo-4H-chromene derivatives" *European Journal of Chemistry* **2011**, 2(2), 158-162.

- [21] Mounir A. I. Salem, **Tarik E. Ali**, and Magda I. Marzouk "Electron ionization mass spectra of organophosphorus compounds Part I: The mass fragmentation pathways of cyclic α -aminophosphonates monoester containing 1,2,4-triazinone moiety" *Phosphorus, Sulfur and Silicon and related Elements* **2012**, 187(3), 336-342.
- [22] Mounir A. I. Salem, **Tarik E. Ali**, Magda I. Marzouk, and Rizk E. Khidre "Electron ionization mass spectra of organophosphorus compounds Part II: Mass spectrometric fragmentation of spiro(indene-2,3'-pyrazole)phosphonates, spiro(indene-2,3'-pyrazole)phosphanylidene, spiro(1,2,4-diazaphosphole-3,2'-indenes) and (1,3-dioxo-2H-isoindolyl)phosphonate derivatives" *Heteroatom Chemistry* **2012**, 23(3), 254-264.
- [23] **Tarik E. Ali** and Somaia M. Abdel-Karim "Synthetic methods for phosphorus compounds containing pyrazole rings" *Heterocycles* **2012**, 85(9), 2073-2109.
- [24] Mounir A. I. Salem, Mohmoud R. Mahmoud, El-Said A. Soliman, **Tarik E. Ali** and Ibrahim S. Mabrouk " Mass spectrometric fragmentation of some isolated and fused heterocyclic rings with dibromoquinazoline moiety" *Journal of Chemical Acta* **2012**, 1(1), 1-5.
- [25] **Tarik E. Ali**, Somaia M. Abdel-Kariem "Vilsmeier-Haack reaction of phosphonic dihydrazide: Synthesis of 4-[[[(dimethyl)azanylidene]methyl]amino-2,3-dihydro-3-oxo-4H-1,2,4,3-triazaphosphole" *International Journal of Material Chemistry* **2012**, 2(5), 192-196.
- [26] Reda M. Abdel-Rahman, Mohamed S. T. Makki, **Tarik E. Ali** and Magdy A. Ibrahim "1,2,4-Triazine chemistry Part III: Synthetic strategies to functionalized bridgehead nitrogen heteroannulated 1,2,4-triazine systems and their regiospecific and pharmacological properties" *Current Organic Synthesis* **2013**, 10(1), 136-160.
- [27] **Tarik E. Ali**, Salah A. Abdel-Ghaffar, Kamilia M. EL-Mahdy and Somaia M. Abdel-Karim "Synthesis, characterization and antimicrobial activity of some new phosphorus macrocyclic compounds containing pyrazole rings" *Turkish Journal of Chemistry* **2013**, 37(1), 160-169.
- [28] Magdy A. Ibrahim, **Tarik E. Ali**, Azza M. El-Kazak, and Amira M. Mohamed "Studies on the chemical behavior of the novel 6,8-dibromo-7-hydroxychromone-3-carboxaldehyde towards some carbon nucleophilic reagents" *Heterocycles* **2013**, 87(5), 1075-1086.
- [29] Reda M. Abdel-Rahman and **Tarik E. Ali** "Design and biological evaluation of some new polyfluorinated 4-thiazolidinone and α -aminophosphonic acid derivatives" *Monatshefte Fur Chemie* **2013**, 144 (8), 1243-1252.

- [30] Mounir A. I. Salem, Wafaa M. Abdou, **Tarik E. Ali**, Azza A. Kamal, and R. F. Barghash "Electron ionization mass spectra of organophosphorus compounds Part III: Mass spectrometric fragmentation of diethyl spiro[pyrimidino[5,3][1,2]oxazole]phosphonate, diethyl (oxazolo[5,4-d]pyrimidine-4,6-dione) phosphonate and diethyl (pyrimidino[4,5-b][1,4]oxazine)phosphonate derivatives" Phosphorus, Sulfur and Silicon and related Elements **2013**, 188(8), 1007-1016.
- [31] **Tarik E. Ali** "Synthesis and spectral characterization of some novel phosphonyl- and phosphoryl pyrazole compounds" Heteroatom Chemistry **2013**, 24(5), 426-436.
- [32] **Tarik E. Ali**, Magdy A. Ibrahim, Zeinab M. El-Gendy and Eman M. El-Amin "4,6-Diacetylresorcinol in heterocyclic synthesis Part I: Synthesis and biological evaluation of new linearly and angularly substituted pyrano[3,2-g]chromenes via Vilsmeier-Haack formylation of 4,6-diacetylresorcinol, its Schiff bases and hydrazones" Synthetic Communication **2013**, 43(24), 3329-3341.
- [33] Magdy A. Ibrahim, **Tarik E. Ali**, Nasser M. El-Gohary, and Azza M. El-Kazak "3-Formylchromones as diverse and interesting building blocks in heterocycles synthesis" European Journal of Chemistry **2013**, 4(3), 311-328.
- [34] **Tarik E. Ali**, Salah A. Abdel-Aziz, Somaya M. El-Edfawy, El-Hossain A. Mohamed and Somaia M. Abdel-Kariem "Synthesis and biological evaluations of a series of novel azolyl, azinyl, pyranyl, chromonyl and azepinyl phosphonates" Heterocycles **2013**, 87(12), 2513-2532.
- [35] **Tarik E. Ali**, "Synthetic methods of cyclic α -aminophosphonic acids and their esters" Arkivoc **2014**, i, 21-91.
- [36] **Tarik E. Ali** " Reaction of 2-(1,3-dithiolan-2-ylidene)malononitrile with amino- and hydrazinophosphorus compounds: A Facile route to functionalized phosphorus heterocycles" Journal of Heterocyclic Chemistry **2014**, 51(1), 38-43.
- [37] **Tarik E. Ali** and Reda M. Abdel-Rahman "Synthesis and antioxidant activities of some novel fluorinated spiro[oxindole-thiazolidine] fused with sulfur and phosphorus heterocycles" Journal of Sulfur Chemistry **2014**, 35(4), 399-411.

- [38] Mounir A. I. Salem, **Tarik E. Ali**, Magda I. Marzouk, Marwa S. Salem, and Ghazala A. Al-Shibani "Mass spectral fragmentation modes of some new pyrimidinethiones, thiazolo [3,2-a]pyrimidines and bis-pyrimidines" International Journal of Materials and Chemistry **2014**, 4(4), 92-99.
- [39] **Tarik E. Ali**, Salah A. Abdel-Aziz, Somaya M. El-Edfawy, El-Hossain A. Mohamed and Somaia M. Abdel-Kariem "Cleavage of diethyl chromonyl α -aminophosphonate with nitrogen and carbon nucleophiles: A synthetic approach and biological evaluations of a series of novel azoles, azines and azepines containing α -aminophosphonate and phosphonate groups" Synthetic Communications **2014**, 44(24), 3610-3629.
- [40] Magdy A. Ibrahim and **Tarik E. Ali** "Ring opening and ring closure reactions of chromone-3-carboxylic acid: unexpected routes to synthesize functionalized benzoxocinones and heteroannulated pyranochromenes" Turkish Journal of Chemistry **2015**, 39(2), 412-425.
- [41] Reda M. Abdel-Rahman, Mounir A. I. Salem, **Tarik E. Ali**, and Magdy A. Ibrahim "Utility of 4,6-diacetylresorcinol in heterocyclic synthesis" Chemistry of Heterocyclic Compounds **2015**, 51(4), 299-309.
- [42] Magdy A. Ibrahim, **Tarik E. Ali**, Azza M. El-Kazak and Amira M. Mohamed "Synthesis and chemical reactivity of the novel 6,8-dibromo-7-hydroxychromone-3-carboxaldehyde towards nitrogen nucleophilic reagents" Journal of Heterocyclic Chemistry **2015**, 52(3), 815-826.
- [43] **Tarik E. Ali** and Somaia M. Abdel-Kariem "Methods for synthesis of α -heterocyclic/heteroaryl- α -aminophosphonic acids and their esters" Arkivoc **2015**, vi, 246-287.
- [44] Reda M. Abdel-Rahman, Mohamed S. T. Makki, **Tarik E. Ali** and Magdy A. Ibrahim "1,2,4-Triazine chemistry Part IV: Synthesis and chemical behavior of 3-functionalized-5,6-diphenyl-1,2,4-triazines towards some nucleophilic and electrophilic reagents" Journal of Heterocyclic Chemistry **2015**, 52(6), 1595-1607.
- [45] **Tarik E. Ali** and Somaia M. Abdel-Kariem "Electron impact ionization mass spectra of organophosphorus compounds part IV: mass fragmentation modes of some diethyl [(alkyl/arylamino)(6-methyl-4-oxo-4H-chromen-3-yl)methyl]phosphonates" Phosphorus, Sulfur and Silicon and Related Elements **2015**, 190(11), 1942-1947.
- [46] **Tarik E. Ali** and Somaya M. El-Edfawy "A convenient synthesis and biological evaluations of some novel linear and cyclic α -aminophosphonic acid derivatives

containing a quinazolinone ring" Research on Chemical Intermediates **2016**, 42(2), 1329-1347.

- [47] Reda M. Abdel-Rahman, **Tarik E. Ali** and Somaia M. Abdel-Kariem "Methods for synthesis of N-heterocyclyl/heteroaryl- α -aminophosphonates and α -(azaheterocyclyl) phosphonates" Arkivoc **2016**, i, 183-211.
- [48] **Tarik E. Ali** and Somaia M. Abdel-Kariem "Electron ionization mass spectra of organophosphorus compounds Part V: Mass fragmentation modes of some azolyl, azinyl and azepinyl phosphonates as cyclic α -aminophosphonates" Phosphorus, Sulfur and Silicon and Related Elements **2016**, 191(9), 1223-1228.
- [49] **Tarik E. Ali**, Mamdouh M. Ali, Somaia M. Abdel-kariem and Marwa M. Ahmed "Reaction of 2-Hydroxy-N'-[(4-oxo-4H-chromen-3-yl)methylidene]benzohydrazide with Some Phosphorus Reagents. Synthesis and Evaluation of Anticancer Activity of Novel α -Hydrazinophosphonic Acid, 1,4,5,2 λ^5 -Oxadiazaphosphinines, and 1,3,2 λ^5 -Benzoxazaphosphinines Bearing a Chromone Ring " Russian Journal of Organic Chemistry **2017**, 53(6), 904-912.
- [50] **Tarik E. Ali**, Magdy A. Ibrahim, and Somaya M. El-Edfawy "Synthesis and cytotoxicity evaluation of some novel chromone annulated phosphorus heterocycles" Phosphorus, Sulfur and Silicon and Related Elements **2017**, 192(7), 819-826.
- [51] Mohamed M. Hassan, Somaia M. Abdel-Kariem and **Tarik E. Ali** "Synthesis and antioxidant properties of some novel 1,3,4,2-oxadiazaphosphepino[6,7-c]quinolinones and pyrazolo[3,4:4',3']quinolino[5,1-c][1,4,2]oxazaphosphinine" Phosphorus, Sulfur and Silicon and Related Elements **2017**, 192(7), 866-873.
- [52] **Tarik E. Ali**, Mamdouh M. Ali, Somaia M. Abdel-kariem and Marwa M. Ahmed "Reaction of 2-cyano[(4-oxo-4H-chromen-3-yl)methylidene]acetohydrazide with phosphorus reagents: Synthesis and evaluation of anticancer activities of some novel 1,2-azaphospholes, 1,2,3-diazaphospholidine and 1,3,2-diazaphosphinanes bearing a chromone ring" Synthetic Communications **2017**, 47(16), 1458-1470.
- [53] Somaia M. Abdel-kariem and **Tarik E. Ali**, "The reaction of phosphorus pentasulfide with some hydrazides and their hydrazones: New route for construction of four-, five- and six-membered phosphorus heterocycles" Journal of Heterocyclic Chemistry **2017**, 54(5), 2916-2921.
- [54] **Tarik E. Ali** and Mohamed M. Hassan "Reaction of 2-cyano-3-(4-oxo-4H-chromen-3-yl)prop-2-enamide with some phosphorus reagents: synthesis of some novel diethyl

- phosphonates, 1,2,3-diazaphosphinanes, 1,3,2-thiazaphosphinine and 1,2-azaphospholes bearing a chromone ring" *Research on Chemical Intermediates* **2018**, 44(1), 173–189.
- [55] **Tarik E. Ali**, Mohammed A. Assiri, and I. S. Yahia "Synthesis of novel 3-phenyl-2-oxido/sulfido-1,3,4,2-benzoxadiazaphosphepines" *Synthetic Communication* **2018**, 28 (14), 1828-1837.
- [56] Mohammed A. Assiri, Somaia M. Abdel-Kariem, **Tarik E. Ali**, and Ibrahim S. Yahia "A convenient route to novel fluorinated 1,2,4,3-triazaphospholo[1,5-a]pyridines and pyrido[1,2-b][1,2,4,5]triazaphosphinines" *Arkivoc* **2018**, v, 240-253.
- [57] Mohammed A. Assiri, Tarik E. Ali, Somaya M. El-Edfawy and I. S. Yahia" Synthesis and Characterization of Some Novel Phosphorylated 4-Oxo-2-phenylquinazolines" *Journal of Heterocyclic Chemistry* **2018**, 55, 1955-1959.
- [58] **Tarik E. Ali**, Mohammed A. Assiri, Somaia M. Abdel-Kariem and Ibrahim S. Yahia "Facile synthesis of novel 6-methyl-5-phenyl-2-sulfido-1,2,3,5-tetrahydro-4H[1,2]oxazolo [4',5':5,6]pyrano[2,3-d][1,3,2]diazaphosphinines". *Journal of Sulfur Chemistry* **2018**, 39(5), 472-482.
- [59] Noha M. Hassanin, **Tarik E. Ali**, Hafez M. El-Shaaer, Mohamed M. Hassan "Reaction of 2-imino-2H-chromene-3-carboxamide with some phosphorus sulfides: Synthesis of some novel 2-sulfido-2,3-dihydro-4H-chromeno[2,3-d] [1,3,2]diazaphosphinines" *Phosphorus, Sulfur and Silicon and Related Elements* **2018**, 193, 651-655.
- [60] Mohammed A. Assiri, **Tarik E. Ali**, Mamdouh M. Ali and Ibrahim S. Yahia "Synthesis and anticancer activity of some novel diethyl {(chromonyl/pyrazolyl)[(4-oxo-2-phenylquinazolin-3(4H)-yl)amino]methyl} phosphonates" *Phosphorus, Sulfur and Silicon and Related Elements* **2018**, 193, 668-674.
- [61] **Tarik E. Ali**, Mohammed A. Assiri, Ibrahim S. Yahia and Heba Y. Zahran "Unusual behavior of 3-(dimethylamino)-1-(2-hydroxyphenyl)prop-2-en-1-one towards some phosphorus reagents: synthesis of novel diethyl 2-phosphonochromone, diethyl 3-phosphonopyrone and 1,3,2-oxathiaphosphinines" *Synthetic Communications* **2019**, 49, 550–557.
- [62] Mohammed A. Assiri, **Tarik E. Ali**, Magdy A. Ibrahim, Eman M. El-Amin and Ibrahim S. Yahia "4,6-Diacetylresorcinol in Heterocyclic Synthesis Part II: synthesis of some novel 4,6-bis(azolyl/azinyl/azepinyl)resorcinols" *Heterocycles* **2019**, 98, 114-125.
- [63] Mohammed A. Assiri, **Tarik E. Ali**, Noha M. Hassanin, Ibrahim S. Yahia and Gamal B. Sakr "Reaction of 2-Imino-2H-chromene-3-carboxamide with Phosphorus

- Isothiocyanates: First Synthesis of Novel Chromeno[2,3-d] pyrimidinyl and Bis(chromeno[2,3-d]pyrimidinyl)phosphines and Chromeno [2',3':4,5]pyrimido[2,1-d][1,3,5,2] triazaphosphinine* Journal of Heterocyclic Chemistry **2019**, 56, 1646-1650.
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