


## CURRICULUM VITAE (C.V.)

### I- PERSONAL:

<i>Name:</i>	Ehab Abdel-Latif Attia Khalifa	
<i>Place of Birth:</i>	DAKAHLIA - EGYPT	
<i>Date of Birth:</i>	16/2/1971	
<i>Citizenship:</i>	Egyptian	
<i>Marital Status:</i>	Married	
<i>Mailing Address:</i>	Chemistry Department – Faculty of Science - Mansoura University 35516 Mansoura - EGYPT	
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### II- ACADEMIC:

Degree	Specialty	Institute / Date	Title
B. Sc.	Chemistry	Mansoura University 1992	
M. Sc.	Organic Chemistry	Mansoura University 1998	“The use of thiocarbamoyl derivatives in the synthesis of some new disperse dyes”
Ph. D.	Organic Chemistry	Mansoura University 2003	“Synthesis of some heterocyclic derivatives and their applications as disperse dyes”

### III- PROFESSIONAL:

Period	Employer	Job Title
1992-1998	Chemistry Department, Faculty of Science, <b>Mansoura University, Egypt</b>	Demonstrator
1998-2000	Chemistry Department, Faculty of Science, <b>Mansoura University, Egypt</b>	Assistant Lecturer
2000-2002	Chemistry Department, Faculty of Science, <b>Oldenburg University, Germany</b>	Ph. D. Student
2002-2006	Chemistry Department, Faculty of Science, <b>Mansoura University, Egypt</b>	Lecturer
2006-2014	Deanship of Educational Services <b>Qassim University, K.S.A</b>	Associate Professor
2014 till now	Chemistry Department, Faculty of Science, <b>Mansoura University, Egypt</b>	Professor

#### **IV- Administrative work within the college**

<b>Administrative work</b>	<b>Period</b>
<b>Deputy Director of the Quality Assurance Unit - Faculty of Science - Mansoura University</b>	<b>From 1-9-2014 to 31-8-2015</b>
<b>Head of Control - Level 3 for the 2014-2015 academic year</b>	<b>First Semester</b>
<b>Head of Control - Level 3 for the 2015-2016 academic year</b>	<b>Second Semester</b>
<b>Head of Control - Level 3 for the 2016-2017 academic year</b>	<b>Second Semester</b>
<b>Head of Control - Level 3 for the 2017-2018 academic year</b>	<b>First Semester</b>
<b>Head of Control - Level 4 for the 2018-2019 academic year</b>	<b>First Semester</b>
<b>Head of Control - Level 4 for the 2019-2020 academic year</b>	<b>First Semester</b>
<b>Head of Control - Level 4 for the 2020-2021 academic year</b>	<b>Second Semester</b>
<b>Vice-Chair of the Chemistry Department</b>	<b>From 2015 to 2021</b>
<b>Chairman of the Committee for Maximizing the Benefit of Scientific Equipment</b>	<b>From 2017 to 2020</b>
<b>Executive Director, Petrochemicals Program and Applications</b>	<b>From 2019 to 2021</b>
<b>Vice Dean of Graduate Studies and Research Affairs</b>	<b>From August 2021</b>

#### **V- RESEARCH EXPERIENCE:**

1. Synthesis of azo disperse dyes application of disperse dyes on polyester fabrics.
2. Synthesis of metal free dye-sensitizers for solar cells.
3. Design and Synthesis of biologically active heterocyclic ring systems.
4. Solid-solid and solid-gas reactions with 100% yield.
5. Atomic force microscopy (AFM).

#### **VI- LANGUAGE KNOWLEDGE:**

*Mother Language* : Arabic  
*Foreign Language* : 1- English: Excellent  
2- German: Good

## **VI- LIST OF TEACHING AND COURSE COORDINATION RESPONSIBILITIES**

### (A) Courses for undergraduate students

- |   |                                 |
|---|---------------------------------|
| 1- Principles of organic chemistry      | 6- Pericyclic reactions         |
| 2- Physical organic chemistry           | 7- Photochemistry               |
| 3- Heterocyclic chemistry               | 7- Organic spectroscopy         |
| 4- Organic synthesis and Organometallic | 8- Chemistry of Dyes and fibers |
| 5- Stereochemistry                      | 10- Organic synthesis           |

### (B) Courses for graduate students:

- 1- Advanced applied spectroscopy
- 2- Advanced physical organic chemistry
- 3- Advanced heterocyclic chemistry
- 4- Chemotherapy and drug design
- 5- New synthetic reactions and supramolecular chemistry
- 6- Strategies and tactics in synthesis of nonconventional organic synthesis

## **VII- LIST OF PUBLICATIONS:**

- (1) "Synthesis of some new phenylthiocarbamoyl 2-pyrazolin-5-ones of pharmaceutical interest" M. A. Metwally, E. Abdel-Latif and F. A. Amer; Boll. Chim. Farmac., **2000**, 139, 213-216.
- (2) "New 4-arylozo-2-(substituted)-3-phenyl-1,3-thiazolidin-5-ones as disperse dyes (Part-1)" M. A. Metwally, E. Abdel-Latif and F. A. Amer; J. of the Textile Association -Nov. Dec., **2001**, 155-159.
- (3) "New 4-arylozo-2-bromo-2-( $\alpha$ -bromo-substituted)-3-phenyl-1,3-thiazolidin-5-ones dyes For dyeing polyester fabrics (Part 2)" M. A. Metwally, E. Abdel-Latif and F. A. Amer; J. of the Textile Association -Nov. Dec., **2002**, 149-154.
- (4) "Synthesis and reactions of some thiocarbamoyl derivatives" M. A. Metwally, E. Abdel-Latif and F. A. Amer; Sulfur Letters, **2003**, 26, 119-126.
- (5) "Quantitative gas-solid diazotization of 3-aminopyrazolo[3,4-b]pyridine derivatives and azo dye syntheses by means of solid-solid reactions" G. Kaupp, M. A. Metwally, F. A. Amer and E. Abdel-Latif; Eur. J. org. Chem., **2003**, 1545-1551.
- (6) "Versatile 2-aminothiazoles, building blocks for highly functionalised heterocycles" G. Kaupp, F. A. Amer, M. A. Metwally and E. Abdel-Latif; J. Heterocyclic Chem., **2003**, 40, 963-971.

- (7) "Synthesis of new 5-thiazolyl azo-disperse dyes for dyeing polyester fabrics" M. A. Metwally, E. Abdel-Latif, F. A. Amer and G. Kaupp,; Dyes and Pigments, **2004**, 60, 249-264.
- (8) "New azo-disperse dyes with thiazole ring for dyeing polyester fabrics" M. A. Metwally, E. Abdel-Latif, A. M. Khalil, F. A. Amer and G. Kaupp,; Dyes and Pigments, **2004**, 62, 181-195.
- (9) Review Entitled "Versatile 2-amino-4-substituted-1,3-thiazoles: synthesis and reactions" M. A. Metwally, E. Abdel-Latif, F. A. Amer and G. Kaupp, J. Sulfur Chemistry, **2004**, 25 (1), 63-85.
- (10) Review Entitled "Versatile  $\alpha$ -oxo ketene dithioacetals and analogues in heterocyclic synthesis" M. A. Metwally and E. Abdel-Latif, J. Sulfur Chemistry, **2004**, 25(5), 359-379.
- (11) "Brand new quantitative solid-state synthesis of N-pyrazolyl azomethines" Ehab Abdel-Latif, Gerd Kaupp and Mohamed A. Metwally, J. Chem. Res., **2005**, 187-189.
- (12) "Solvent-free photooxygenation of 5-methoxyoxazoles: stereoselective synthesis of  $\alpha$ -amino- $\alpha$ -hydroxy carboxylic acid derivatives" Samir Bondock, Ehab Abdel-Latif and Johann Lex, J. Chem. Res., **2005**, 422-426.
- (13) "Versatile synthesis of N,S-heterocycles containing the antipyrine moiety" Ehab Abdel-Latif, J. phosphorus, sulfur, silicon and the related elements, **2006**, 181 (1), 125-139.
- (14) "Utilization of  $\alpha$ -halocarbonyl compounds in the synthesis of thiazole, thiadiazole and thiophene derivatives" Ehab Abdel-Latif and Samir Bondock, Heteroatom Chem., **2006**, 17(4), 299-305.
- (15) "Synthesis of novel purine, pteridine and other pyrimidine derivatives" E. Abdel-Latif, H. M. Mustafa, H. A. Etman, and A. A. Fadda, Russian J. Org. Chem., 2007, 43(3), 443-448.
- (16) "Waste-free solid-state organic syntheses: solvent-free alkylation, heterocyclization and azo-coupling reactions" Ehab Abdel-Latif and Mohamed A. Metwally, Monatshefte fur Chemie, 2007, 138(8), 771-776.
- (17) Review Entitled "Thiocarbamoyl derivatives as synthons in heterocyclic synthesis" M. A. Metwally, E. Abdel-Latif and S. Bondock, J. Sulfur Chemistry, **2007**, 28(4), 431-466.
- (18) "Synthesis of some 4-aryloxy-3-hydroxythiophene disperse dyes for dyeing polyester fabrics" Ehab Abdel-Latif and Fathy A. Amer, Monatshefte fur Chemie, **2008**, 139(5), 561-566.
- (19) "Synthesis of some new pyrimidine and pyrimido[4,5-d]pyrimidine Derivative" Ahmed A. Fadda, Ehab Abd El-Latif, Samir Bondock, Ahmed Samir, Synthetic Communications, 2008, 38(24), 4352-4368.
- (20) "Thiocarbamoyl in Organic Synthesis: Synthesis of some new arylazothiophene and arylazopyrazole derivatives", A. A. Fadda, E. Abdel-Latif, Rasha E. El-Mekawy, Phosphorus, Sulfur, and Silicon and the Related Elements, **2008**, 183(8), 1940-1953.

- (21) "Synthesis and molluscicidal activity of some new thiophene, thiadiazole and pyrazole derivatives" Fadda A. A., Abdel-Laif E. and El-Mekawy R. E., *Eur. J. Med. Chem.*, **2009**, 44(3): 1250-1256.
- (22) "Synthesis of 5-arylaazo-2-(arylidenehydrazino)-thiazole disperse dyes for dyeing polyester fibers" E. Abdel-Latif, F. A. Amer, M. A. Metwally, M. E. Khalifa, *Pigment & Resin Technology*, **2009**, 38(2), 105–110.
- (23) "New arylhydrazonothiazolidin-5-one disperse dyes for dyeing polyester fibers" Mohamed A. Metwally, Mohamed E. Khalifa, Ehab A. Attia and Fathy A. Amer, *Polish Journal of Chemical Technology*, **2010**, 12, 1-6.
- (24) "Antimicrobial activity of some new 4-arylaazo-3-methylthiophene disperse dyes on polyester fabrics" Hatem E. Gafer and Ehab Abdel-Latif, *J. Applied Polymer Science*, **2011**, 122, 83–89.
- (25) "Synthesis of Some New Arylazothiophene and Arylazopyrazole Derivatives as Antitumor Agents" A. A. Fadda, E. Abdel-Latif and R. E. El-Mekawy, *Pharmacology & Pharmacy*, **2012**, 3, 148-157.
- (26) "New Azo Heterocyclic Disperse Dyes with Thiophene Moiety for Dyeing Polyester Fibers" Mohamed E. Khalifa, Mohamed A. Metwally, Ehab Abdel-Latif, Fathy A. Amer, *International Journal of Textile Science*, **2012**, 1(1): 1-6.
- (27) "Synthesis of Some New 5-Arylazothiazole Derivatives as Disperse Dyes for Dyeing Polyester Fibers" Mohamed E. Khalifa, Ehab Abdel-Latif, Fathy A. Amer, Mohamed A. Metwally, *International Journal of Textile Science*, **2012**, 1(6): 62-68.
- (28) Review Entitled "Thiohydantoin: synthetic strategies and chemical reactions" Mohamed A. Metwally and Ehab Abdel-Latif, *Journal of Sulfur Chemistry*, **2012**, 33, 229–257.
- (29) "Design and synthesis of new 4-pyrazolin-3-yl-1,2,3-triazoles and 1,2,3-triazol-4-yl-pyrazolin-1-ylthiazoles as potential antimicrobial agents" Bakr F. Abdel-Wahab, Ehab Abdel-Latif, Hanan A. Mohamed, Ghada E.A. Awad, *Eur. J. Med. Chem.*, **2012**, 52, 263-268.
- (30) "5-(4-Fluorophenyl)-3-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazol-4-yl]-4,5-dihydro-1H-pyrazole-1-carbothioamide" Bakr F. Abdel-Wahab, Ehab Abdel-Latif, Seik Weng Ng and Edward R. T. Tiekink, *Acta Cryst.* **2012**, E68, o1954–o1955.
- (31) "Synthesis of 2-aminothiazole dye and its metal complexes as agents for organic/inorganic heterojunction" F. A. El-Saied, E. Abdel-Latif, A. M. Nawar, A. S. Radwan, A. A. Hamed, *Smart Nanocomposites*, **2012**, 3(1), 17-42.
- (32) "(2E)-1-[5-Methyl-1-(4-methylphenyl)-1H-1, 2, 3-triazol-4-yl]-3-[4-(piperidin-1-yl)phenyl] prop-2-en-1-one" BF Abdel-Wahab, E. Abdel-Latif, SW Ng, ERT Tiekink, *Acta Crystallographica Section E*: **2013**, 69 (5), 639-640.
- (33) "Antibacterial activity of cotton fabrics treated with sulfadimidine azo dye/chitosan colloid" H. E. Gaffer, M. Gouda and E. Abdel-Latif, *Journal of Industrial Textiles*, **2013**, 42, 392-399.

- (34) "Novel antimicrobial agents: Fluorinated 2-(3-(benzofuran-2-yl)pyrazol-1-yl)thiazoles" Hanan A. Mohamed, Ehab Abdel-Latif, Bakr F. Abdel-Wahab, and Ghada E. A. Awad International Journal of Medicinal Chemistry, **2013**, 1-6.
- (35) "Synthesis of Some Novel 3-Amino-4-arylazothiophene Disperse Dyes of Biological Activity for Dyeing Polyester Fabrics and Their Application as Medical Textiles" Mohamed E Khalifa, Mahmoud Amin and Ehab Abdel-Latif, International Journal of Chemistry, **2013**, Vol.34, Issue.2, 1195-1204.
- (36) Review Entitled "Azoniallene Salts: Synthesis and their utility in heterocyclic synthesis" Ahmed S. Radwan, El-Sayed H. Al-Tamany, Ehab Abdel-Latif and Mohamed E. Khalifa, International Journal of Sciences, **2013**, 2, 68-86.
- (37) "Dyeing performance of new 4-arylazo-3-hydroxythiophene dyes on polyester fabrics" Ehab Abdel-Latif, Eman M. Keshk and Ahmed Fekri, International Journal of Chemistry, **2014**, Vol. 35, 1403-1409.
- (38) "Efficient synthesis of some new functionalized 3-amino- and 5-aminopyrazoles derivatives" Ehab Adel-Latif and Abdel-Galil M. Khalil, Research on Chemical Intermediates, **2015**, 41(7), 4555-4567.
- (39) "Disperse dyes based on 5-arylazo-thiazol-2-ylcarbamoyl-thiophenes: Synthesis, antimicrobial activity and their application on polyester" Mohamed E Khalifa, Ehab Abdel-Latif and Adel A Gobouria, Journal of Heterocyclic Chemistry, **2015**, 52(3), 674-680.
- (40) "Synthesis and antitumor activity of some new symmetrical diselenide derivatives" Nadher A. Abed, Saad Shaaban and Ehab Abdel-Latif, Research Journal of Pharmaceutical, Biological and Chemical Sciences **2015**, 6(4), 1655-1665.
- (41) "Synthesis of some new 2-substituted-4-sulfamoylphenylazo-thiophene and/or thiazole derivatives as antibacterial agents" Ahmed A. Fadda, Afnan M. El-badrawy, Hala M. Refat, and Ehab Abdel-Latif, phosphorus, sulfur, silicon and the related elements **2016**, 191(5), 778-785.
- (42) "Synthesis and antitumor activity of some new pyrazolo[3,4-d]pyrimidine and pyrazolo[3,4-b]pyridine derivatives" E. Abdel-Latif, S. Abdel-Fattah, H. E. Gaffer and H. A. Etman, Egyptian journal of basic and applied sciences, **2016**, 3, 118-124.
- (43) "Synthesis and Evaluation of Some New 3-methyl-2-substitutedthiophenes as antioxidants and corrosion inhibitors for Egyptian Lubricating Oils" Osman MO Habib, Evelen B Moawad, Ehab Abdel-Latif, Ahmed El-Mekabaty, and Dawood S Sasi. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(1), 128-134, **2016**.
- (44) "Synthesis and Antioxidant Activity of Some New 2-pyrazolin-5-one-1-carbothioamide Derivatives". Ebrahim Abdel-Galil, Ehab Abdel-Latif, Hussein A. Abbas, and Ezzat M. Kandeel. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(1), 222-228, **2016**.
- (45) "Synthesis, Reactions and Antioxidant Activity of 4,6-dimethyl-2-Substituted-nicotinonitrile Derivatives" Ebrahim Abdel-Galil, Ehab Abdel-Latif, Salah I. Haif, and Ez-Eldin M. Kandeel. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(1), 1401-1408, **2016**.

- (46) "Synthesis Some New Benzoxazole Derivatives and Their Cytotoxicity to Human Cancer Cell Lines" Ahmed A. Fadda, Ehab Abdel-Latif, Eman H. Tawfik, and Raaben M. Mohammed. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(1), 1820-1826, **2016**.
- (47) "Synthesis of some new symmetrical diselenide dyestuffs for dyeing polyester fabrics" H. E. Gaffer, S. Shaaban, N. A. Abed and E. Abdel-Latif, Pigment & Resin Technology, **2016**, 45(6), 431-438.
- (48) "Azothiophene dyes nanotubes structure based thin films: Synthesis, structural and optical characterization toward application in dyesensitized solar cells" A. S. Radwan, M. M. Makhoulouf and E. Abdel-Latif, Dyes and Pigments, **2016**, 134, 516-525.
- (49) "Synthesis and Antioxidant Activity of Some New Thiazolyl-Pyrazolone Derivatives" H. E. Gaffer, S. Abdel-Fattah, H. A. Etman and E. Abdel-Latif, Journal of Heterocyclic Chemistry, **2017**, 54 (1), 331-340.
- (50) "Synthesis and Antioxidant Evaluation of New Heterocycles Derived from *p*-Aminobenzoate Ester" Ahmed A. Fadda, Ehab Abdel-Latif, Ibrahim Youssef and Ghada Elagamy, J. Modern Sci. Eng., **2017**, Vol. 1 (1), 24-32.
- (51) "Utilization of Isatoic Anhydride in the Synthesis of New Quinazoline Scaffolds as Antioxidant Agents" Ahmed A. Fadda, Ehab Abdel-Latif, Ahmed Fekri and Amal R. Mostafa. J. Modern Sci. Eng., **2017**, Vol. 1 (3), 27-37.
- (52) "A facile synthesis of new functionalized pyrazole-based heterocycles" Ahmed A. Fadda, Ehab Abdel-Latif, Hadeer M. Youssri. J. Modern Sci. Eng., **2017**, Vol. 1 (3), 45-52.
- (53) "Utilization of 3-Aminopyrazolopyridine as Diazo-Component: Coupling with some Pyrazolone, Pyrimidone and/or Pyridone Derivatives" Ehab Abdel-Latif, Hatem E. Gaffer, Mona E. Ibrahim and Mahmoud M. Sultan. J. Modern Sci. Eng., **2017**, Vol. 1 (4), 10-15.
- (54) "Effect of gamma irradiation on the color properties of synthetic fabrics dyed by arylazo-pyrazolone disperse dyes" Ehab Abdel-Latif and Hatem E. Gaffer, The Journal of The Textile Institute, **2017**, 108, 653-656.
- (55) "Synthesis of Some New Thiazole-Containing Heterocycles Derived from 2-Cyanoacetamidothiazole" Ehab Abdel-Latif, Marwa Karam, and Mohamed A. Ismail. J. Modern Sci. Eng., **2017**, Vol. 1 (4), 1-9.
- (56) "Utilization of 2-(antipyrinyl)-2-oxoethyl 4-aminobenzoate in the synthesis of some azopyrazoles and azothiazoles" Hassan A. Etman, Ehab Abdel-Latif, Mohamed A. Hamed, Ahmed El Nemr and Shymaa Adel. J. Modern Sci. Eng., **2017**, Vol. 1, 1-8.
- (57) "Utilization of 4-Aminobenzoate Ester as Diazo-component for the Synthesis of Some New Azopyrazoles, Azopyrimidines and Azothiophenes" Ahmed A. Fadda, Ehab Abdel-Latif, Ahmed El-Mekabaty and Mohamed A. Lashen. J. Modern Sci. Eng., **2017**, Vol. 1 (3), 53-63.
- (58) "Synthesis of New 5-arylazo-1-substitutedpyridone Dyes with Antibacterial Activity" Hatem E. Gaffer, Mona E. Ibrahim Mahmoud M. Sultan and Ehab Abdel-Latif. Egypt. J. Chem., **2017**, 153 - 159.

- (59) "Synthesis and Anticancer Evaluation of Some New Heterocyclic Scaffolds Incorporating the Acetanilide Moiety" Ehab Abdel-Latif, Eman M. Keshk, Ali Saeed and Abdel-Galil M. Khalil. *Modern Organic Chemistry Research*, **2017**, Vol. 2, 112-123.
- (60) "Synthesis and antibacterial evaluation of new 2-substitutedamino-5-(4-ethoxycarbonylphenylazo)-thiazole scaffolds" Ehab Abdel-Latif, Altaf S. Almatari and Ghada E. Abdel-Ghani. *J. Modern Sci. Eng.*, **2018**, Vol. 2, 10-16.
- (61) "Solvent Effects on the Uv-Visible Absorption Spectra of Some New Thienylazo-Thiazole and Thienylazo-Thiophene Dyes" Ehab Abdel-Latif, Asmaa M. Mansour and Ebrahim Abdel-Galil. *J. Text. Color. Polym. Sci.*, **2018**, Vol. 15, 1-18.
- (62) Synthesis, Characterization and Anti-Cancer Activity (MCF-7) of Some Acetanilide-Based Heterocycles. Ehab Abdel-Latif, Eman M. Keshk, Abdel-Galil M. Khalil, Ali Saeed and Heba M. Metwally. *J. Heterocyclic Chem.*, **2018**, 55, 2334-2341.
- (63) "Recent Progress on Nicotinonitrile Scaffold-based Anticancer, Antitumor, and Antimicrobial Agents: A Literature Review" Moustafa A. Gouda, Ehab Attia, Mohamed H. Helal and Mohammed A. Salem. *J. Heterocyclic Chem.*, **2018**, 55, 2224-2250.
- (64) "Synthesis and Antioxidant Evaluation of New Thiazole-Containing Heterocycles Derived from 2-Chloroacetamidothiazole" Ehab Abdel-Latif, Ahmed S. Radwan, Marwa Karam, Mohamed A. Ismail. *Indian Journal of Heterocyclic Chemistry*, **2018**, 28, 495-501.
- (65) "Utilization of thioacetanilides in the synthesis of new 4-(4-acetamidophenylazo)thiophene scaffolds and evaluating their anti-oxidant activity" Ehab Abdel-Latif, Eman M. Keshk, Abdel-Galil M. Khalil, Ali Saeed, Heba M. Metwally. *Journal of the Iranian Chemical Society*, **2019**, 16, 629–637.
- (66) "An overview on the synthesis and chemical properties of p-aminoacetanilide and its derivatives" Ehab Abdel-Latif, Heba M. Metwally, Eman M. Keshk, Abdel-Galil M. Khalil, and Ali Saeed. *Synthetic Communications*, **2019**, 49 (16), 1957–1986.
- (67) "New derivatives of azopyrazolo dyes: Synthesis and optical characterization for application in sensitized solar cells" Ali Saeeda, Muneer A. Nasher, Ehab Abdel-Latif, Eman M. Keshk, Abdel-Galil M. Khalil, Heba M. Metwally. *Optik - International Journal for Light and Electron Optics*, **2019**, 196, 163036.
- (68) "Synthesis and Docking Studies of Some 1,2,3-Benzotriazine-4-one Derivatives as Potential Anticancer Agents" Ahmed A. Fadda, Ehab Abdel-Latif, Ahmed Fekri, Amal R. Mostafa. *J. Heterocyclic Chem.*, **2019**, 56, 804-814.
- (69) "Anticancer activity, dual prooxidant/antioxidant effect and apoptosis induction profile of new bichalcophene-5-carboxamidines" Mohamed A. Ismail, Amr Negm, Reem K. Arafa, Ehab Abdel-Latif, Wael M. El-Sayed. *European Journal of Medicinal Chemistry*, **2019**, 169, 76-88.
- (70) "Synthesis and Antibacterial Evaluation of Some New Thiazole-Based Polyheterocyclic Ring Systems" Ehab Abdel-Latif, Altaf S. Almatari, and Ghada E. Abd-ElGhani. *J. Heterocyclic Chem.*, **2019**, 56, 1978-1985.



- (71) "Targeting hepatocellular carcinoma: Synthesis of new pyrazole-based derivatives, biological evaluation, DNA binding, and molecular modeling studies" Dina M. Omran, Mariam A. Ghaly, Shahenda M. El-Messery, Farid A. Badria, Ehab Abdel-Latif, Ihsan A. Shehata. *Bioorganic Chemistry*, **2019**, 88, 102917.
- (72) "Synthesis and Evaluation of Thiazolyl pyrazolin-5-one Derivatives as Antioxidants for Egyptian Lubricating Oil" Ahmed A. Fadda, Ahmed El-Mekabaty, Khaled El-Saeed and Ehab Abdel-Latif. *J. Text. Color. Polym. Sci.*, **2019**, Vol. 16, No. 1, 69 -74.
- (73) "Co-sensitization of the HD-2 complex with low-cost cyanoacetanilides for highly efficient DSSCs" M. R. Elmorsy, L. Lyu, R. Su, E. Abdel-Latif, S. A. Badawy, A. El-Shafei, Ahmed A Fadda. *Photochemical & Photobiological Sciences*, **2020**, 19 (2), 281-288.
- (74) "Synthesis and antibacterial survey of some new pyridine-based heterocycles" Ebrahim Abdel-Galil, Maged A. Berghot, Alshimaa I. Zaki, Ehab Abdel-Latif. *Heterocycles*, **2020**, 100, 1883 – 1901.
- (75) "Synthesis of N-aryl 2-chloroacetamides and their chemical reactivity towards various types of nucleophiles" E. Abdel-Latif, M. M. Fahad, M. A. Ismail. *Synthetic Communications*, **2020**, 50 (3), 289-314.
- (76) "Utilization of 5-Chloro-2-(cyanoacetamido) pyridines in the Synthesis of Biologically Active Heterocyclic Hybrids" E. Abdel-Latif, R. E. Alashhab, A. El-Demerdash, M. A. Ismail. *ChemistrySelect*, **2020**, 5 (5), 1797-1802.
- (77) "Molecular geometry, synthesis and photovoltaic performance studies over 2-cyanoacetanilides as sensitizers and effective co-sensitizers for DSSCs loaded with HD-2" M. R. Elmorsy, E. Abdel-Latif, S. A. Badawy, A. A. Fadda, *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 389, 112239.
- (78) "New cyanoacetanilides based dyes as effective co-sensitizers for DSSCs sensitized with ruthenium (II) complex (HD-2)" M. R. Elmorsy, R. Su, E. Abdel-Latif, S. A. Badawy, A. El-Shafei, A. A. Fadda. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 7981–7990.
- (79) "Synthesis and biological evaluation of some heterocyclic scaffolds based on the multifunctional N-(4-acetylphenyl)-2-chloroacetamide" Ehab Abdel-Latif, Mustafa M. Fahad, Amr El-Demerdash, Mohamed A. Ismail. *Journal of Heterocyclic Chemistry*, **2020**, 57, 3071-3081.
- (80) "Micelle-mediated extraction for speciation and spectrophotometric determination of iron using a newly synthesized salicylic acid derivative" Y. G. Abou El-Reash, H. A. Tantawy, E. Abdel-Latif, W. I. Mortada. *Microchemical Journal*, **2020**, 158, 105280.
- (81) "Synthesis of new heterocycles festooned with thiophene and evaluating their antioxidant activity" N. A. Abed, M. M. Hammouda, M. A. Ismail, E. Abdel-Latif, *Journal of Heterocyclic Chemistry*, **2020**, 57, 4153–4163.
- (82) "Cloud point extraction of copper using 4-(2-chloroacetamido)-salicylic acid as a complexing agent" Huda Altantawy, Wael I. Mortada, Ehab Abdel-Latif, Yasmeen Abou El-Reash, *Egyptian Journal of Chemistry*, **2021**, 64, 25-32.

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