

Curriculum Vitae

Personal Data

Name Wael Talaat AbdelKader Ismail
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Qualifications

- 1) Ph.D. in Analytical Chemistry. Nov. 2012. Faculty of Pharmacy, Mansoura University. Mansoura, Egypt.
- 2) M.Sc. in Analytical Chemistry. Aug.2007. Faculty of Pharmacy, Mansoura University. Mansoura, Egypt.
- 3) B. Pharm. Sci. May 2001. Faculty of Pharmacy, Mansoura University, Mansoura, Egypt, General grade very good.

Postdoc. Studies

Visiting scholar in department of NanoEngineering (Prof. Joseph Wang, Nanomachine lab). University of California San Diego. USA.

Selected Publications

- 1) Songsong Tang, Fangyu Zhang, Jing Zhao, **Wael Talaat**, Fernando Soto, Emil KarshalevChuanrui Chen, Zhihan Hu, Xiaolong Lu, Jinxing Li, Zhihua Lin, Haifeng DongXueji Zhang, Amir Nourhani, Joseph Wang ; Structure-Dependent Optical Modulation of Propulsion and Collective Behavior of Acoustic/Light-Driven Hybrid Microbowls; Advanced

Functional Materials , 2019, 29, 1809003, DOI: 10.1002/adfm.201809003. Impact Factor: **13.325**

- 2) Reda MohammedKeshk, **Wael Talaat**; New fluorescence probe for cilazapril analysis in dosage forms and biological fluids; *Microchemical Journal*, 2020, 105614, doi.org/10.1016/j.microc.2020.105614
- 3) Samir Morshedy, Gamal Omran, Ossama Abdullatef, Mariam Omar, **Wael Talaat**; Validated spectrofluorimetric method for determination of mirabegron by utilizing its quenching effect on acetoxymurcuric fluorescein reagent; *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2020,239, 118509
- 4) Hadil M. Elbardisy , Eduardo M. Richter , Robert D. Crapnell ^a, Michael P. Down , Peter G. Gough , Tarek S. Belal , **Wael Talaat** , Hoda G. Daabees, Craig E. Banks; Versatile additively manufactured (3D printed) wall-jet flow cell for high performance liquid chromatography-amperometric analysis: application to the detection and quantification of new psychoactive substances (NBOMes); *Analytical Methods*, 2020, 12, 2152-2165
- 5) Alejandro Garcia -Miranda Ferrari, Hadil M. Elbardisy, Valentine Silva, Tarek S. Belal, **Wael Talaat**, Hoda G. Daabees, Craig E. Banks, Dale A. C. Brownson ; The influence of lateral flake size in graphene/graphite paste electrodes: an electroanalytical investigation; *Analytical Methods*, 2020, 12, 2133 - 2142, DOI: 10.1039/d0ay00169d
- 6) Amira El-Yazbi, Nourhan Elashkar, Karim Abdel-Hay, **Wael Talaat**, Hytham Ahmed; Eco-friendly HPTLC method for simultaneous analysis of sofosbuvir and ledipasvir in biological and pharmaceutical samples: Stability indicating study; *Microchemical Journal*,2020, 154, 104584 DOI: 10.1016/j.microc.2019.104584
- 7) Hytham M.Ahmed, Yousef S.Elshamy,**Wael Talaat**, Hala F.Labib, Tarek S.Belal ;Simultaneous analysis of chlorzoxazone, diclofenac sodium and

tramadol hydrochloride in presence of three potential impurities using validated HPLC-DAD and HPTLC methods; Microchemical Journal, 2019, 153, 104505, DOI: 10.1016/j.microc.2019.104505

- 8) **Wael Talaat**; Bioanalytical method for the estimation of co-administered esomeprazole, leflunomide and ibuprofen in human plasma and in pharmaceutical dosage forms using micellar Liquid chromatography; Biomedical Chromatography, 2017, 31 (5) | DOI: 10.1002/bmc.3865
- 9) Hadil M. Elbardisy, Christopher W. Foster, Jack Marron, Ryan E. Mewis Oliver B. Sutcliffe, Tarek S. Belal, **Wael Talaat**, Hoda G. Daabees, Craig E. Banks; Quick Test for Determination of N-Bombs (Phenethylamine Derivatives, NBOMe) Using High-Performance Liquid Chromatography: A Comparison between Photodiode Array and Amperometric Detection; ACS Omega, 2019, 4, 14439–14450 DOI: 10.1021/acsomega.9b01366
- 10) Hadil M. Elbardisy, Alejandro García-Miranda Ferrari, Christopher W. Foster, Oliver B. Sutcliffe, Dale A. C. Brownson, Tarek S. Belal, **Wael Talaat**, Hoda G. Daabees, Craig E. Banks; Forensic Electrochemistry: The Electroanalytical Sensing of Mephedrone Metabolites; ACS Omega 2019, 4, 1947–1954, DOI 10.1021/acsomega.8b02586
- 11) Hadil M. Elbardisy, Christopher W. Foster, Loanda Cumba, Lysbeth H. Antonides, Nicolas Gilbert, ad Christopher J. Schofield, de Tarek S. Belal, **Wael Talaat**, Oliver B. Sutcliffe, Hoda G. Daabeesg, Craig E. Banks; Analytical determination of heroin, fentanyl and fentalogues using high-performance liquid chromatography with diode array and amperometric detection; Analytical Methods, 2019, 11, 1053, DOI: 10.1039/C9AY00009G
- 12) **Wael Talaat**, Mohamed M.Y. Kaddah; Validated Analytical Method for the Determination of Sorafenib in Dosage form and Human plasma in

presence of its Degradation Products; International Journal of PharmTech Research, 2019, 12, 8-21, doi.org/10.20902/IJPTR.2019.120302

- 13) H.G. Daabees, **Wael Talaat**, Manal El-Shal , Kholoud Ahmed ; Highly sensitive voltammetric sensor based on modified gold nanoparticles electrode for determination of Nepafenac in Bulk powder, Pharmaceutical dosage form and Blood Serum; Analytical & Bioanalytical Electrochemistry, 2018, 10, 851-872.
- 14) H.G. Daabees, **Wael Talaat**, Manal El-Shal , Kholoud Ahmed; Ion selective membrane sensors for determination of Brimonidine tartarate in bulk powder, pharmaceutical eye drops and biological fluids; International Journal of Advanced Research, 2018, 6(5), 120-128
- 15) H.G. Daabees, **Wael Talaat**, Manal El-Shal , Kholoud Ahmed; Highly Sensitive Square Wave Voltammetric Technique for Determination of Nepafenac in Bulk Powder, Pharmaceutical Dosage Form and Blood Serum; International Journal of Chemical Sciences, 2018, 16(1):242
- 16) **Wael Talaat**; Micellar liquid chromatographic determination of lamivudine, indinavir and ketoconazole in dosage forms and biological fluids; Pharm Anal Acta, 2015, 6:327. doi: 10.4172/2153-2435.1000327
- 17) **Wael Talaat** ; Thermodynamic contribution to the solubility equation; International Journal of Recent Scientific Research, 2015, 6: 2461-3470
- 18) Fathalla Belal, Manal Eid, Amina EL-Brashy, **Wael Talaat**; Micellar Liquid Chromatographic Determination of Idrocilamide in Dosage Form and Biological Fluids: Application to Stability Study; Pharm Anal Acta, 2015, 6:335. doi: 10.4172/2153-2435.1000335
- 19) Mohie Khalid, Manal Eid, **Wael Talaat**; Liquid chromatographic determination of ribavirin, silybin, interferon α 2a, lamivudine, ursodeoxycholic acid; J. liquid chromatography and related technology, 2014, 37: 1785-1804

- 20)** Amina El-Brashy, Fatma Ali, Manal Eid , **Wael Talaat**; Spectrofluorometric determination of ketorolac tromethamine via its oxidation with cerium(IV) in pharmaceutical preparations and biological fluids; J. AOAC International 2007, 90(4):941-7.
- 21)** Amina El-Brashy, Manal Eid, **Wael Talaat**; Kinetic Spectrophotometric Method For The Determination of Ketoprofen in Pharmaceuticals and Biological Fluids; Int J Biomed Sci 2006 , 2: 405-41

Patent

- 1) Ismail, Wael Talaat Abd El-kader. " Modified NMR for multicomponent analysis" U.S. Patent Application 15063039, filed MAR 7,2016.
- 2) Ismail, Wael Talaat Abd El-kader. "Quantum Chemical Analysis." US20150022815 A1, WO2013127402 A2, PCT/EG2012/000029
<https://patents.google.com/patent/US20150022815A1/en>
<https://patents.google.com/patent/WO2013127402A2/en>

Experiences

- 1) Associate Professor of Analytical Chemistry, Faculty of Pharmacy, Damanshour University from Aug.2020
 - 2) Lecturer of Analytical Chemistry, Faculty of Pharmacy, Damanshour University from 4/2014 to 1/2018.
 - 3) Supervisor Analyst in Unit of Drug and Pharmaceutical Analysis, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt from 12/2008 to 6/2014.
 - 4) Pharmacist in Mansoura University hospitals from 6/2002 to 11/2008
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Research Experiences

- 1) Development of hybrid nanomachine
- 2) Development and validation of analytical methods for drug raw material and dosage form analysis .
- 3) Development and validation of stability indicating methods .
- 4) Development and validation of bio analytical methods for the estimation of drug in biological fluids.
- 5) Conduct bio availability and bio equivalence studies.

Teaching Course:

- Instrumental Analysis
- Analytical chemistry
- Quality Control
- Physical Chemistry

Conferences

- 1) Bioavailability & Bioequivalence: BA/BE studies, 2016 ,Atlanta, Georgia, USA.
- 2) Menofia University Pharmaceutical Sciences conference, 2018

Languages & Skills

- 1) Fluent English (IELTS &GRE general)
- 2) GRE Chemistry
- 3) Computer skills (word, power point, Excel, Prism 4,hyperchem to some extent)

Membership

- 1) Member of postgraduate studies and research committee , Faculty of Pharmacy, Damanhour University, Egypt.
- 2) Member of environmental development and community service, committee , Faculty of Pharmacy, Damanhour University, Egypt.

References

1) Prof. Gamal Omran

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2) Prof. Hoda Dabeas

Prof. of Pharmaceutical chemistry, Faculty of pharmacy,

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3) Prof. Joseph Wang

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