1. 1 crsonat Details.		
Name	Dr. Marwan Shamseddin Moh'd Shalash	
Nationality	Jordanian	
Place and Date of Birth	Kuwait; September 11,1975	
Gender	Male	
Marital Status	Married	
Job Title	Lecturer (Assistant Professor)	
Number of Years of	7 Years (Academic University)	
Experience 12 Years (Pharmaceutical Industry)		
E-mail address	Shalashm07@yahoo.com	
E-man address	Shalashm07@gmail.com	
Phone number	00962 780469140	
r none number	00966 563206731 (WhatsApp)	
Web of Science Researcher ID	KLY-9893-2024	
ORCID-ID	0000-0003-4957-3734	
ORCID-ID	https://orcid.org/0000-0003-4957-3734	
Scopus Author-ID	37104912100	
H	Al-Osra Pharmacy, Army street, Al Zarqa,	
Home Address	Jordan.	



2. Educations:

1. Personal Details:

- **Ph.D in Analytical Chemistry-Separation**; Universiti Sains Malaysia (USM), April 2017. <u>Thesis title:</u> The Development of Green Microextraction Methods for the Determination of Phenolic Acids in Honey and Beverages.
- M.Sc. in Analytical Chemistry- Chemical Instrumentation; Universiti Sains Malaysia (USM), August 2008, with very good average (Grade: 3.13).
 <u>Thesis title:</u> Flow Injection Method for the Determination of Paracetamol in Pharmaceutical Formulation.
- **B.Sc. in Chemistry**; Mutah University –Al Karak; February 1998, with very good average (Grade: 80.6 %) and with the 1st rank.
- **Ministry of Higher Education and Scientific Research**: Education Credential Assessment from the Jordanian Ministry of Higher Education and Scientific for Bachelor, Master, and Doctorate (Date: *July 24, 2017*)

3. Professional Experiences:

Name of Organization	Position Title	Date Served	
Name of Organization	I USILION THE	From	То
Faculty of Pharmacy , Northern Border University (NBU), Kingdom of Saudi Arabia.	Assistant Professor of Analytical Chemistry	15/09/2020	Until now
Faculty of Sciences and Arts,Northern Border University (NBU),Kingdom of Saudi Arabia.	Assistant Professor of Analytical Chemistry	16/10/2017	15/09/2020
School of Chemical Sciences, University Sains Malaysia, Penang, Malaysia, (Professor Bahruddin Saad)	Research Assistant for Master Course (Separation Science)	01/2013	04/2017

School of Chemical Sciences, University Sains Malaysia, Penang, Malaysia	<i>Teaching assistant</i> for analytical chemistry	01/2010	01/2013
Hikma Pharmaceuticals Company, Amman, Jordan	 Quality Unit Senior Supervisor Quality Assurance and Compliance Senior Supervisor Quality Control Senior Supervisor Quality Control Supervisor Quality Control Senior Analyst Quality Control Analyst 	04/1998	02/2010

4. Administrative Activities and Experience:

Position Title	Desition Title Name of Organization		Date Served	
rosition rue	Name of Organization	From	То	
	Faculty of Pharmacy, Northern			
Head of Quality and Accreditation Unit	Border University (NBU), Kingdom	01/09/2022	Until now	
	of Saudi Arabia.			
	Faculty of Sciences and Arts,			
Head of Chemistry Department	Northern Border University	05/09/2019	15/09/2020	
	(NBU),, Kingdom of Saudi Arabia			
	Faculty of Sciences and Arts,			
Head of Academic Development Unit	Northern Border University	19/11/2018	19/11/2019	
	(NBU),, Kingdom of Saudi Arabia			

5. Teaching Experience:

Courses Taught University		
College of Pharmacy (Northern Border University (NBU)	 General Chemistry I General Chemistry II General Chemistry Lab Pharmaceutical Analytical Chemistry Instrumental Analysis Instrumental Analysis Lab Biochemistry 	 Pharmaceutical Organic Chemistry Chromatography Natural Product Spectra of Organic compounds Quality control and Drug analysis
College of Sciences and Arts (Department of Chemistry) Northern Border University (NBU)	 General Chemistry I General Chemistry II General chemistry Lab Analytical chemistry Instrumental Analysis Chromatographic method of Separation Electrochemistry 	 Topics of Analytical Chemistry Spectra of Organic Compounds Biochemistry Bioinorganic Chemistry Project Research Field Training Photochemistry
Courses Taught During Ph.D. Fellowship School of Chemical Sciences, Universiti Sains Malaysia (USM)	 Analytical Chemistry Chemistry Practical V Laboratory Manual (KUT 205) Chemistry practical VI- Organic Laboratory (KUT 206). Separation methods (Instrumental), (HPLC,GC,CE) (KAA505) 	 Separation methods practical- Laboratory (Instrumental practical), (HPLC,GC,CE) ,(KAA505). Analytical Chemistry I (KUT 245).

Courses Taught for Postgraduate Students School of Chemical Sciences, University Sains Malaysia (USM)

- Chromatography (master's Students Class)

- Natural Products (master's Students Class)

6. Professional Experiences in Pharmaceutical Industry:

- of Quality Unit (Quality Control-Quality Assurance-Compliance) in the Senior Supervisor Pharmaceutical Industry with 12 years of experience within Hikam Pharmaceutical Jordan (MENA region) Conduct activities concerned with the quality assurance/control of industrial processes, materials, and \triangleright products (Active Pharmaceutical Ingredients), develop new approaches to solve and provide recommended process improvement to the management Conducting internal audits to make sure Hikma pharmaceutical sites are in alignment with Hikma Quality \triangleright Standards and FDA/MHRA regulations Good knowledge of USP, ICH, ISO Guidelines, FDA, GMP, GLP, MHRA guidelines \triangleright Ensuring the implementation of GMP and GLP regulations Follow up GMP Trends and chemistry deficiency letters. \triangleright Ensure appropriate IQ,OQ, and PQ for the required classes of equipment Massively contributed to setting internal quality SOPs \triangleright Managing development, validation and analysis of drug substances and drug products (according to ICH, \triangleright FDA and MHRA guidelines).
- Checking the data of analysis generated for both Europe and US markets
- > Training and supervising department employees

7. Research Interests:

\triangleright	Exploring, developing and applicability of new microextraction techniques approaches and eco-
	environmental friendly methods by using Analytical Green Chemistry concepts for the analysis
	of nutrition, environmental water and pharmaceutical products using high performance liquid
	chromatography (HPLC), Capillary Electrophoresis (CE), Ultra-high Performance Liquid
	Chromatography (UPLC), Gas chromatography (GC) coupled to variety of detections systems,
	including mass spectrometry techniques (MS) and flow injection analysis.

- Developing and Synthesis a simple and miniaturized analytical techniques in association with novel nanomaterials such as functionalized nanoparticles and exploring analytical applications of these materials in the biomedical, Nutrition, Pharmaceutical and environmental monitoring areas.
- Exploring application of green analytical techniques to enhance performance of sample preparation, chromatographic separations and detection.
- Synthesis and characterization of advanced functional materials of nanomaterials and characterization using different instruments-Spectroscopy (UV, IR, NMR, Ms) and Other such as TEM, SEM, DSC that used for Pharmaceuticals-Food Applications

8. Professional Training:

Technical Training:

- Training for one month at the Jordan Petroleum Refinery -Laboratory Chemistry Center.
- Training for two months at the Ministry of Water & Irrigation. 13-Jan to 1- February 1997 in Chemistry Lab.
- Training for one month at Arab Center for Pharmaceutical & Chemicals as a Chemical analyst. 1-27 September 1997.
- Training course of Service, Maintenance, and Installation for Trace GC Instrument which was held by Thermo Electronic Corporation in Milan Italy. 10-13 November 2003.
- Occupational Health, Safety & Environmental (HSE) training course OSHA-10. Held by Hikma Pharmaceutical, 5 December 2009.
- Training course of Chirality held by School of Chemical Science -- Universiti Sains Malaysia (USM), 23-24 October 2007.
- Training course of Procedure for Method Validation and Verification, held by School of Chemical Science (USM) and Institute Kimia –Malaysia, 28-29 January 2008
- The 3D CE & Chemstation training course, held by Agilent Technologies, 29-30 April 2008.
- Training course of Laboratory safety and management, held by School of chemical science-Universiti Sains Malaysia (USM), 13 July 2011.
- Training course of Malaysia standards (MS), held by School of chemical science- Universiti Sains Malaysia (USM), 13 September 2013.

Managerial Training

Training course in Time Management held by International Consulting & Training Network (ICTN). *Training of Trainers (TOT)*

Training course in Training of Trainers (TOT) held by The Arab international Society for Management Technology (AIMICT) in Amman July 13-21, 2019

9. Publication:

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1-	Manganous oxide-cobalt@carbon microcubes with a hierarchical mesoporous structure for high
	performance lithium storage Vicciico Hono, Vifai Fongo, Dalal A. Alshammari, Marwan Shalash, Salah M. El Bahy, Hua Yuang
	Xiaojiao Hana, Yifei Fenga, Dalal A. Alshammari, <u>Marwan Shalash</u> , Salah M. El-Bahy, Hua Yuane, Wei Duf, Xiao Liug, Fuyi Jianga,*, Chuanxin Houa,*, Xiaoyu Zhanga,*. <i>Advanced Composites and</i>
	Hybrid Materials journal 7 (2024) 116 Impact Factor: 23.2, Q1 (2023-WOS)
2-	Structural, optical and magnetic properties of a new metal-organic Co ^{II} - based complex.
	Wiem Jabeur, Marcus Korb, Mohamed Hamdi, Mariia Holub, Dávid Princík, Vladimír Zeleňák, Antonio Sanchez-Coronilla, <u>Marwan Shalash*</u> , Erik Čižmár, Houcine Naïli. <i>RSC Advances journal</i> 14 (2024) 25048-25061. <i>Impact Factor: 3.9, Q2 (2023-WOS)</i>
3-	Covalent Organic Frameworks: Synthesis and Applications for Photocatalysis.
	Misbah Shahid, Aziz ur Rehman, Tayyaba Najam, Hammad Majeed, <u>Marwan Shalash</u> , Salah M. El-Bahy, Muhammad Sufyan Javed, Syed Shoaib Ahmad Shah*, Muhammad Altaf Nazir. <i>ChemPhotoChem journal (2024)</i> e202400131. <i>Impact Factor: 3.0, Q2 (2023-WOS)</i> <i>https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cptc.202400131</i>
4-	Synergistic reductive catalytic effects of an organic and inorganic hybrid covalent organic framework for hydrogen fuel production
	Sonia Rani, <u>Marwan Shalash</u> , Muhammad Nadeem, Mazen R. Alrahili, Moazzam H. Bhatti, Khurram Shahzad Munawar, Muhammad Tariq, Ha fi z Muhammad Asif * and Zeinhom M. El-Bahy. <i>Dalton Transactions</i> . 53(2024) 10875-10889. <i>Impact Factor: 4.0, Q1 (2023-WOS)</i>
5-	Research progress on spherical carbon-based electromagnetic wave absorbing composites
	Yuxia Shi, Baoquan Liang, <u>Marwan Shalash</u> , Hong Gao, Rui Zhao, Qi Dong, Tingxi Li, Yong Ma, Wei Gao, Jing Zhang, Junwei Gu, Saad Melhi, Zeinhom M. El-Bahy, Zhanhu Guo. <i>Carbon</i> 227(2024) 119244. <i>Impact Factor: 10.5, Q1 (2023-WOS)</i>
6-	Mini review polyurethane hybrids: preparation, characterization and applications
	El-Sayed Negim, <u>Marwan Shalash</u> , MukatayevaZh.S., BaidullayevaA.K., AlferovT.K., NurtazinaA.A., KarabayevaA.E., Moshera Samy. <i>Engineering and Technology</i> 333 (2025)16-26. <i>Impact Factor:</i> 0.8 Q4(2023-WOS)
7-	Vortex-assisted liquid-liquid—liquid microextraction followed by high performance liquid chromatography for the simultaneous determination of fourteen phenolic acids in honey, iced tea and canned coffee drinks.
	Marwan Shalash, Ahmad Makahleh*, Salizawati Muhamad Salhimi, Bahruddin Saad* Talanta, <u>174 (</u> 2017) 428-435. Impact Factor: 5.6, Q1 (2023-WOS)
8-	Simple flow injection spectrophotometric determination of Acetaminophen in pharmaceutical formulations using 1,2-naphthoquinone- 4-sulphonate as chemical derivatization chromogenic reagent. <u>Marwan Shalash</u> , Abdussalam Salhin, Bahruddin Saad, and Ismail Ab. Rahman, Journal of Liquid Chromatography and Related Technologies, 36 (2013)155–166. <i>Impact Factor: 1.0, Q4 (2023-WOS)</i>
9-	Effect of Acrylate Copolymers on the Rheological Properties of Cement Pastes, Part II.
	El-Sayed Moussa Negim, <u>Marwan Shalash</u> , Mahyuddin Ramli, Bahruddin Saad, Jamal Khatib, Lyazzat Bekbayeva, Muhammad Idiris Saleh, <i>Middle-East Journal of Scientific Research</i> , 9 (2011) 08-16.
10-	Spectroscopic Studies of 1,4-bis(4-dimethylaminobenzyl)-2,3-diaza-1,3-butadiene as colorimetric reagent for Cu ²⁺
	Marwan Shalash, Abdussalam Salhin, Tan Theng Theng, <i>World Applied Sciences Journal</i> , 15 (2011) 598-605.

11- (E)-4-Hydroxy-N-(4-hydroxy-3-methoxy-benzylidene)benzohydrazide.

<u>Marwan Shalash</u>, Abdussalam Salhin, Rohana Adnan, Chin Sing Yeap and Hoong-Kun Fun, Acta Crystallographica Section E, E66 (2010) o3126–o3127. *Impact Factor: 0.35 Q4 (2023-WOS)*

10. Ongoing Projects:

1-	Performance of orange peels crosslinked β -cyclodextrin (OP- β -CD) to uptake lanthanum from water: conventional adsorption studies and ultrasound-assisted desorption
	Guilherme L. D., <u>Marwan Shalash</u> , Yifei Fenga, Wei Duf, Chuanxin Houa*. <i>Chemical Engineering Journal (2024) (Submitted to journal-Under Review)</i> Impact Factor: 13.3 Q1 (2023-WOS)
2-	Development and Validation of an Optimized HPLC-UV Analytical Method for the Quantification of 5-Methyltetrahydrofolate (Active Folate) in Dietary Supplements: Application to Commercial Tablets and Capsules
	Anas Alshishani [*] , <u>Marwan Shalash</u> , Aya Aldalaty, Lena Shaghlil. <i>Journal of Food Composition and</i> Analysis (2024) (Submitted to journal-Under Review) Impact Factor: 4.0 Q2 (2023-WOS)
3-	Organically modified bentonite (nanoclay) as micro-solid phase extraction sorbent for the high performance liquid chromatographic determination of phenolic acids.
	Marwan Shalash [*] , Ahmad Makahleh, Ahmad Saud, Bahruddin Saad. <i>Talanta (2024) (Submitted to journal-Under Review)</i> . Impact Factor: 5.6, Q1 (2023-WOS)
4-	Recent development of metal-organic frameworks and their composites in electromagnetic wave absorption and shielding applications
	Kexin Wei; Yang Shi; Xin Tan; <u>Marwan Shalash</u> ; Ruanna Ren; Abeer A. Faheim; Chong Jia; Runzhou Huang; Yequan Sheng; John Zhanhu Guo*. <i>Advances in Colloid and Interface Science</i> (2024) (<i>Submitted to journal-Under Review</i>). <i>Impact Factor: 15.9 Q1 (2023-WOS)</i>
5-	An overreview of Adapting Modified Phenolic Resin Composites for Diverse Performance Requirements Across Various Fields
	Yue Zhang; Marwan Shalash; Salah M El-Bahy; Zijian Wu; Junna, Dawei Jiang*. Polymer (2024) (Submitted to journal-Under Review) Impact Factor: 4.1 Q2 (2023-WOS)
6-	Ion-pair vortex-assisted liquid–liquid microextraction with back extraction combined with high- performance liquid chromatography- diode array detector for determination of ellagic acid in honeys.
	Marwan Shalash*, Ahmad Makahleh, Saliza Mohamad Salhimi, Bahruddin Saad. Food Chemistry (will be submitted Soon). Impact Factor: 8.5 Q1 (2023-WOS)
7-	Ultrasound-Assisted Matrix Solid-Phase Dispersion for the Determination of Phenolic Acids in Honey Using Capillary Zone Electrophoresis. <u>Marwan Shalash</u> *, Ahmad Makahleh, Salizawati Muhamad Salhimi, Bahruddin Saad a
8-	(Under Review after writing). Salting-out vortex assisted liquid-liquid-liquid microextraction combined with capillary electrophoresis-
0-	for the simultaneous determination of phenolic acids in honey.
	Marwan Shalash [*] , Siti Farhana Binti Samsudin, Bahruddin Saad. (<i>Under writing</i>).

<u>11. Conferences and Workshops:</u>

No	Details	
	Conference: The 29 th Regional Symposium of Malaysia Analytical Sciences (SKAM 29).	
1	 Participate as : Presenter (Oral) Topic title: Ion-pair vortex-assisted liquid–liquid- liquid microextraction combined with high-performance liquid chromatography- diode array detector for the determination of ellagic acid in honeys. 	
Date: 15-17 August 2016 on Bayview Beach Resort, Penang, Malaysia.		
	Conference: 5 th International Conference for Young Chemists 2015 (ICYC 2015).	
2	 Participate as : Presenter (Poster) Topic title: Ion-pair vortex-assisted liquid–liquid- liquid microextraction combined with high-performance liquid chromatography- diode array detector for the determination of phenolic acids in honeys. 	
	Date: 5-7 th August 2015 on Bayview Hotel, Georgetown, Penang, Malaysia.	
	Conference: Vietnam - Malaysia International Chemical Congress (VMICC).	
3	Participate as : Presenter (Oral)Topic title : Organically modified bentonite (nanoclay) as micro-solid phase extraction sorbent for the high performance liquid chromatographic determination of phenolic acids	
	Date: 7-9 th November 2014 on Hanoi, Vietnam.	
	Conference: The 26 th Regional symposium of Malaysia Analytical Sciences (SKAM 26).	
4	 Participate as : Presenter (Oral) Topic title : vortex-assisted liquid–liquid microextraction followed by HPLC for the simultaneous determination of fourteen phenolic acids in fruit juice samples 	
	Date: 4-5 December 2013 on Hilton Kuching, Malaysia.	
	Conference: The 24 th Regional Symposium of Malaysian Analytical Sciences (SKAM 24).	
5	Participate as : Presenter (Oral)Topic title : Ultrasonication matrix solid-phase dispersion for the determination of phenolic acids in honey using capillary electrophoresis	
	Date: 21-23 rd November 2011 on Hotel Helang, Langkawi, Malaysia.	
6	 Conference: 13th International Symposium on Advances in Extraction Technologies (ExTech). Participate as : Presenter (Oral) Topic title: Determination of phenolic acids in honey by using matrix solid-phase dispersion and capillary electrophoresis with diod array detection 	
	Date: 27-29 September 2011 on Putra World Trade Center, Singapore	
7	Workshop: 13 th International Symposium on Advances in Extraction Technologies (ExTech). Participate as : Attender Topic title : Solid-Phase Microextraction (SPME)	
	Date: 26 September 2011 on Putra World Trade Center, Kuala Lumpur, Malaysia.	

	Workshop: 13 th International Symposium on Advances in Extraction Technologies (ExTech).	
8	Participate as : Attender Topic title : Liquid-Phase Microextraction (LPME)	
	Date: 26 September 2011 on Putra World Trade Center, Kuala Lumpur, Malaysia.	
	Conference: 3 th International Conference for Young Chemists 2010.	
9	 Participate as: Presenter (Oral). Topic title : Spectroscopic Studies of 1,4-bis(4-dimethylaminobenzyl)-2,3-diaza-1,3-butadiene as Colorimetric Reagent for Cu²⁺ 	
	Date: 23-25 th June 2010 on Copthorne Orchid Hotel, Penang, Malaysia.	
	Conference: 2 th International Conference for Young Chemists 2008.	
10	 Participate as: Presenter (Oral). Topic title: Simple flow injection spectrophotometric determination of acetaminophen in pharmaceutical formulations using 1,2-naphthoquinone-4-sulphonate as chemical derivatization chromogenic reagent. Date: 18-20th June 2008 on Universiti Sains Malaysia, Penang, Malaysia. 	
Workshop: Procedures of Method Validation and Verification.		
11	Participate as : Attender Date: 28-29 th January 2008 on Copthorne Orchid Hotel, Penang, Malaysia.	
	Workshop: 3D CE & Chemstation.	
12	Participate as : Attender Date: 29-30 April 2008 on Universiti Sains Malaysia, Penang, Malaysia.	
	Workshop: Chirality: Analysis and Emerging Issues.	
13	Participate as : Attender Date: 23-24 th October 2007 on Copthorne Orchid Hotel, Penang, Malaysia.	

11. Bachelor and Master Students Supervision:

No.	Student Name	Thesis Title	Advisor	Date
	Student Name: Ama Schanit	Determination and quantification of		
1	(Masters degree)	Chlorophenols in sea water by using micro solid phase extraction with high performance liquid chromatography	Co-supervisor	2016
	Student Name: Siti Farhana	Salting-out vortex assisted liquid-		
2	Binti Samsudin	liquid-liquid microextraction combined	Co maniera	
2	(Bachelor's degree)	with capillary electrophoresis- for the simultaneous determination of phenolic	Co-supervisor	2015
		acids in honey.		
3	Student Name: Nalisa	Ultrasound and vortex-assisted liquid-		
	Nurul	liquid-liquid microextraction coupled		2015
		with capillary electrophoresis for the	Co-supervisor	
	(Bachelor's degree)	determination of three phenolic acids in		
		iced tea.		
4	Student Name: Chong Jai	Determination of ellagic acid in honey		
	Voon	samples using vortex-assisted liquid-		2014
	(Bachelors degree)	liquid microextraction with high	Co-supervisor	
	(Paper in Preparation)	performance liquid chromatography		

12. Scientific Awards:

No.	Scientific Awards	
1.	Certificate of Reviewing -Food Chemistry 2023, 2024 (Elsevier)	
2.	Certificate of Reviewing -The Chemical Society of Ethiopia 2022	
	Excellent achievement in the category of Journal Publication, Sanggar Sanjung Award Universiti Sains Malaysia, 2017	
2	Best poster presentation "Ion-pair vortex-assisted liquid–liquid microextraction with back extraction combined with high-performance liquid chromatography- diode array detector for determination of ellagic acid in honeys", 5 th International Conference for Young Chemists 2015. 5-7 th August 2015 on Bayview Hotel, Georgetown, Penang, Malaysia	
3	Graduate Assistant scholarship, Universiti Sains Malaysia, Penang, MALAYSIA (Jan. 2014- Dec. 2016	
4	Fellowship, Universiti Sains Malaysia, Penang, MALAYSIA (Jun. 2010- Dec. 2013).	

13. References:

Name	Affiliation	Email
Associate Professor Ahmad Makahleh	Department of chemistry, Faculty of Science, University of Jordan Analytical chemistry.	makahleha@yahoo.com a.makahleh@ju.edu.jo
Associate Professor Khaldun Alazzam	Pharmaceutical Sciences Department, Al- Ahliyya Amman University,	azzamkha@yahoo.com
Assistant Professor, Anas Al- shishani	Faculty of Pharmacy, Zarqa University	aalshishani@zu.edu.jo
Professor El-Sayed Moussa Ashmawy	School of Chemical Engineering, Kazakh- British Technical University	elashmawi5@yahoo.com

Declaration :

I hereby declare that the particulars furnished above are true, complete and correct to the best of my knowledge and belief. All the information presented in this resume is documented. Should you require any further information, it is my pleasure to provide.

Yours Sincerely, Dr. Marwan Shalash