

**السيرة الذاتية : د. براءة فاروق سيو / الأستاذ مساعد في قسم الكيمياء
- كلية العلوم - جامعة اللاذقية**



الدكتوراة براءة فاروق سيو
المرتبة العلمية : أستاذ مساعد اختصاص: الكيمياء الصناعية- الصناعات العضوية

قسم الكيمياء - كلية العلوم- جامعة اللاذقية

حاصلة على شهادة الدكتوراه من جامعة روستوك - ألمانيا بتاريخ 2014/10/21

المسار الوظيفي:

التعيين كمعيد بتاريخ 2008/6/2 ---- نظام التعيين : خريج أول

تاريخ الايفاد : 2010/3/12

العودة من بلد الايفاد والمباشرة كمعيد عائد من الايفاد بتاريخ 2014/12/17

التعيين كمدرس مدرس متمرّن بتاريخ 2016 /2/16

التعيين كمدرس متأصل بتاريخ 2018/4/24

الترقية إلى مرتبة استاذ مساعد بتاريخ 2025/2/26

الاسهامات العلمية و البحثية:

التأليف: شاركت بتأليف أربعة كتب جامعية

البحث العملي: نشرت العديد من الأبحاث في مجلات داخلية و خارجية مصنفة.

المؤتمرات العلمية: شاركت في العديد من المؤتمرات الدولية بما في ذلك في ماليزيا (2025) و الباكستان

في (2024) بالإضافة إلى مشاركات سابقة خلال فترة الايفاد و مشاركات محلية أيضا

الإشراف والتحكيم : أشرفت على عدد من طلاب الدراسات العليا (ماجستير) في قسم الكيمياء و حكمت العديد من الرسائل.

Associate Prof. Dr. Baraa Siyo

Associate Professor, Department of Chemistry, Lattakia University /Syria

(Industrial Chemistry, Organic industries)

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Personal Data:

Full Name: Baraa Siyo

Date and Place of Birth : 29/8/1985

Nationality: Syrian Marital

Status: Married

Number of kids: three (Yousef, Sabah, and Masa)

Languages: Arabic (native speaker), Advanced level in English, German (DSH certificate), and beginners level in French*

Academics:

- 2011 - 2014 PhD student in Chemistry, Leibniz Institute for Catalysis (Likat) at University of Rostock, Germany, Supervisor: Prof. Dr. Peter Langer and Dr. Norbert Steinfeldt.
Title: Development of Palladium Nanoparticles Based Catalysts for Aerobic Oxidation of 5-Hydroxymethylfurfural and Glycerol.
- 2010 -2011 Masters Degree in Chemistry, Institute of Chemistry-University of Rostock, Germany, Supervisor: Prof. Dr. Peter Langer.
Title: Synthesis of N,N'-Diglycosylated Isoindigo-Derivatives and Regioselective Pd(0)-Catalysed Cross-Coupling Reactions of 2,4-Dichloro-1-(trifluoromethyl)benzene.
- 2007-2008 Diploma in educational qualification (Excellent), Lattakia University, /Syria.
- 2004-2007 Bachelor Degree in Chemistry- Faculty of Science-Department of Chemistry- Lattakia University, Latakia/Syria (Very good), rank 1st.

References:

Prof. Dr. Peter Langer

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18059 Rostock, Germany
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Teaching Experience :

Years	
2015 till now	Crude Oil and Natural Gas Chemistry (for Third Year - Applied Chemistry)
2015 till now	Organic Industries -1 (Third Year -Applied Chemistry)
2016 till now	Petrochemical Industries (Fourth Year - Applied Chemistry)
2019 till now	Organic Chemistry - 4 (Fourth Year- Chemistry)
2022 till now	Organic Chemistry - 3 - Spectroscopy (Third Year - Chemistry)
2024 till now	Food Chemistry- Fourth year-Biological Chemistry
2018 till now	Physical and Chemical Concepts (Third Year- Faculty of Education)
2015 till now	Organic Industries - Master - Applied Chemistry)
2015 -2017	Basic Chemistry - First Year - Engineer of Energy)

My Academic Books

1. Crude Oil and Natural Gas Chemistry (for Third Year - Applied Chemistry) Theoretical Part, published in 2022, Latakia University , **Written by: Dr. Baraa Siyo** , Dr. Hasan Wasouf
2. Crude Oil and Natural Gas Chemistry (for Third Year - Applied Chemistry) Practical Part, published in 2019, Lattakia Univerity, **Written by: Dr. Baraa Siyo** , Dr. Hasan Wasouf
3. Organic Industries -1 (Third Year -Applied Chemistry), published in 2019, Lattakia University, **Written by: Dr. Baraa Siyo** , Dr. Yaser Mousa
4. Petrochemical Industries (Fourth Year - Applied Chemistry), published in 2012, Lattakia University, **Written by: Dr. Baraa Siyo** , Dr. Imad Hwaja

Publications:

1. Jana Khador, **Baraa Siyo**, Ghaleb Tayoub, Development and Characterization of a topical Antimicrobial Cream from Ammi visnaga L. Fruit Extract Against Staphylococcus aureus, Jordn Journal of Pharmaceutical Science, 2025 accepted
2. Jana Khador, **Baraa Siyo**, Ghaleb Tayoub, Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2025, 47, No.3 Study the possibility of using the extract of the Ammi visnaga. L. plant in green pharmaceutical and cosmetic formulations, accepted.
3. Baraa Siyo Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2023, 45, No.6 Conversion of apricot kernel oil into biodiesel using alkaline catalysts.
4. Mayas Saad, **Baraa Siyo**, Husam Alrakad, Heliyon,9, e15836 2023, Characterization of Biodiesel from Waste Cooking Oils Using Heterogeneous Catalyst (Cat. Ts-7) Based on Natural Zeolite.
5. **Baraa Siyo**, Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2023, 45, No.1 Use of banana peels as heterogeneous catalyst for biodiesel production from waste cooking oil
6. R. Ilyas, M. Ali, I. Ali, **Baraa Siyo**, W. Xu, A. Hussain, W. wei, L. Chen, Zamarrud T., X. Wang, Journal of Mountain Area Research, 8, 2023, Exploring The Antidiaiabetic and Antioxidiant Potential of Nepeta Adenophzta hedge in Hepg 2 Cells and its Phytochemical Studies.
7. **Baraa Siyo**, Husam Alrakad, Nawar Abdullatif, Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2023, 45, No.1 Extraction of Orange Peels Oil and Possibility of Mixing it with Petroleum Diesel:

8. Hasan Wasouf, **Baraa Siyo**, Ghaith Salameh, Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2023,45 , No 1. Study the effect of Coumaron resin on Chloroprene Based Rubber Adhesives,
9. **Baraa Siyo**, Husam Alrakad, Mayas Saad, Lattakia University Journal of Research and Scientific studied- Basic Science Series, 2022, 44, No.1 Preparation of Biodiesel from Waste Vegetable Oils Using Waste Eggshells as a Heterogeneous Catalyst.
10. Iqra Bashir, Mubarak Ali Khan, Erum Dishad, **Baraa Siyo**, Ejaz Hussain, Iftikhar Ali, Inorganic and Nano-Metal Chemistry, 2021, Antioxidant and Anticancer Silver Nanoparticles of Metha Asiaticaaerial part extract: a novel Study,
11. Huanzhu Zhao, Xiangyun Song, Iftikhar Ali, Manzoor Hussain, Andleeb Mehmood, **Baraa Siyo**, Qianshan Gao, Li Cui, Shahid Aziz, Hidayat Hussain, Wenya Ma, Dawei Qin, and Daijie Wan, Fermentation, 2021, 7, 230, Silver Ion-Complexation High - Speed Countercurrent Chromatography Coupled with Prep-HPLC for Separation of Sesquiterpenoids from Germacrene A Fermentation Broth:
12. Iftikhar Ali, Abidon Faldun, **Baraa Siyo**, Bankeu K. J. Jules, Hidayat Hussain, Peter Langer , Tropical Journal of Natural Product Research , 2019, 3(3), 95-98, Isolation of photochemical Consitutents from Hunteria Umbellata K Schum .
13. **Baraa Siyo**, Matthias Schneider, Marga-Martina Pohl, Peter Langer, Norbert Steinfeldt, *Catalysis Letter*, **2014**, 144, 498-506. "Synthesis, characterization, and application of PVP-Pd NP in the aerobic oxidation of 5-hydroxymethylfurfural (HMF)".
14. **Baraa Siyo**, Matthias Schneider, Jörg Radnik, Marga-Martina Pohl, Peter Langer, Norbert Steinfeldt, *Applied Catalysis A: General*, **2014**, 478, 107–116. "Influence of support on the aerobic oxidation of HMF into FDCA over preformed Pd nanoparticle based materials".

15. Dennis Kleeblatt, **Baraa Siyo**, Martin Hein, Viktor Iaroshenko, Jamshed Iqbal, Alexander Villinger, Peter Langer, *Organic & Biomolecular Chemistry*, **2013**, *11*, 886-895. "Synthesis of *N,N'*-Diglycosylated Isoindigos".
16. Iftikhar Ali, **Baraa Siyo**, Zahid Hassan, Imran Malik, Ihsan Ullah, Asad Ali, Muhammad Nawaz, Jamshed Iqbal, Tamás Patonay, Alexander Villinger, Peter Langer, *Journal of Fluorine Chemistry*, **2013**, *145*, 18-34. "Synthesis of trifluoromethyl-substituted di- and terphenyls by site-selective Suzuki-Miyaura reactions of various dihalogenated trifluoromethyl-benzene derivatives".
17. Iftikhar Ali, **Baraa Siyo**, Yaseen Al Soud, Alexander Villinger, Peter Langer, *Synthesis* **2012**, *44*, 1637-1646. "Regioselective Suzuki-Miyaura Cross-Coupling Reactions of 2,6-Dichloroquinoxaline".

Participations

Participation in Conferences/Oral Presentation:

1. **Baraa Siyo**. "Development of Palladium Nanoparticles Based Catalysts for Aerobic Oxidation of 5- Hydroxymethylfurfural ".4st International Conference On Green Sustainable Technology and Managment ICGSTM2025, INTI (international University), Malaysia, 16 July 2025
2. **Baraa Siyo**. "Development of Palladium Nanoparticles Based Catalysts for Aerobic Oxidation of 5- Hydroxymethylfurfural ".1st International Conference On Green Sustainable Technology and Managment 1stICCM2024, KIU Department of Chemistry, Pakistan, July 2024
3. Jens Baumgard, **Baraa Siyo**, Norbert Steinfeldt. "Synthesis of tailored metallic nanoparticles and their application in liquid phase reaction".1st International Symposium on Nanoparticles/Nanomaterial and Applications, Caparica, Portugal, 20-22 January 2014.

4. Jens Baumgard, **Baraa Siyo**, Norbert Steinfeldt. "Influence of NaOH on formation of Pd nanoparticles in ethylene glycol". 7th Workshop of Chemical and Biological Micro Laboratory Technology, Ilmenau/Elgersburg, 25-27 February, 2014.
5. Norbert Steinfeldt, **Baraa Siyo**. "Development of tailored Pd nanoparticle based catalysts for aerobic oxidation of 5-hydroxymethylfurfural in to 2,5-furandicarboxylic acid". 2nd International Symposium on Green Chemistry Renewable carbon and Eco-Efficient Processes, 21-24 May 2013, La Rochelle – France.

Participation in Conferences/Poster:

1. **Baraa Siyo**, Matthias Schneider, Jörg Radnik, Marga-Martina Pohl, Peter Langer, Norbert Steinfeldt. "Aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid catalyzed by pre-formed Pd nanoparticles based materials". X6. Jahrestreffen Deutscher Katalytiker, 13-15 March 2013, Weimar-Germany.
2. **Baraa Siyo**, Matthias Schneider, Martin Adam, Jörg Radnik, Marga-Martina Pohl, Wolfgang Baumann, Peter Langer, Norbert Steinfeldt. "Selective oxidation of glycerol into lactic acid over preformed Pd and Pd-Ag nanoparticles (NPs) based materials". CASuS-LIKAT Workshop, 16-18 September 2013, Rostock-Germany.
3. **Dr. Baraa Siyo**, Dr. Tareq Arraj, Preparation of Natural Cosmetic , Higher Institute for Environmental Reserach Lattakia University, 6-7 June 2022, Latakia-Syria

Supervision of Masters Thesis:

<i>Name of Student</i>	<i>Title of Thesis</i>	<i>Status</i>
Larisa Yousef	A Chemical Study of quince leaves extract and evaluation of its antioxidant for preparing skin care products	In Progress
Jana Khador	A Chemical Study of the Fruit Extract of Ammi visnaga L. from Syria and its Potential for Green Cosmetics Preparation	Graduated 2025
Nawar Abdullatif	Extraction of Orange peels oil by light naphtha and study the possibility of mixing it with petrodiesel fuel and subsequent usage of the extract residue to produce adsorbent material	Graduated 2023
Mayas Saad	Biodiesel Preparation using locally prepared catalysts and study its physical and chemical properties	Graduated 2023
Ghaith Salama	Preparation and Characterization of Adhesives based on Chloroprene Rubber	Graduated 2023

Judgment of Master and doctoral thesis

Name	Title
Jana Khador	A Chemical Study of the Fruit Extract of Ammi visnaga L. from Syria and its Potential for Green Cosmetics Preparation
Kawther Khiata	Investigate the chemical content of Syrian Euphorbia helioscopia L. plant extracts
Mohammad Zaarour	Studying the properties lubricants oil local and improve these Properties using some additions
Nawar Abdullatif	Extraction of Orange peels oil by light naphtha and study the possibility of mixing it with petrodiesel fuel and subsequent usage of the extract residue to produce adsorbent material
Mayas Saad	Biodiesel Preparation using locally prepared catalysts and study its physical and chemical properties

Dr. Baraa Siyo

Lattakia 4/10/2025