

CURRICULUM VITAE**Personal Details**

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Birthdate and place	Iraq / Baghdad, 21 <sup>th</sup> , Juli 1979
Nationality	Iraqi
Marital status	Married
Present Position	Lecturer and researcher in the chemistry department college of science Mustansiriyah university
Academic Title:	professor

**Education****01/2009 - 01/2012**

Ph.D. Student at University of Rostock, Institute of Chemistry, Department of Organic Chemistry, Germany, Research group of Professor Peter Langer

title: "Synthesis of Functionalized Benzofurans, Diaryl-Substituted 1,2,3,4-Tetrahydro-9,10-Anthracen-1-ones, 5,10-Diaryl-11*H*-benzo[*b*]fluoren-11-ones, Benzothieno[3,2-*b*]quinolines, Thieno[3,2-*b*]pyrroles, Benzofuro[3,2-*b*]quinolines, and Furo[3,2-*b*]quinolines by Regioselective Palladium(0)-Catalyzed Cross-Coupling and Domino C-N Coupling/Annulation Reactions"

very good, (1.3) magna cum laude

<b>09/ 2002 - 08/ 2004</b>	M.Sc in Chemistry, Al-Nahrain University, Baghdad, Iraq. Thesis title: "Preparation of cross-linged polymer as a stationary face for the separation of some amino acids and polyaromatic compounds". Note: GPA (84.6%), (Very good), rank 4st.
<b>09/1998 - 06/2001</b>	Bachelor (BSc.) in Chemistry, Al-Nahrain University, Baghdad, Iraq. Note: GPA (71.53%), ( good), rank 10 <sup>rd</sup> .

### Professional Experience

<b>Synthesis</b>	Organic Synthesis Procedures and modern purification techniques of organic compounds.
<b>Catalysis</b>	wide knowledge about Organometallic and Catalytic Reactions "Cross Coupling"; "Homogeneous Catalysis"
<b>Laboratory Manager</b>	Supervision of graduate and undergraduate students for Organic Chemistry during their Projects
<b>Analytical Methods</b>	Gas chromatography GC, Thin layer Chromatography TLC, Column Chromatography, HPLC Analysis and Preparative, Spectroscopy <sup>1</sup> H-NMR, <sup>13</sup> C-NMR, Dept und 2D- Sptroscopy "Noesy und Cosy" and IR.
<b>Computer &amp; Software</b>	System: Windows (Operating System), Internet resources Software: Word, Excel, PowerPoint, CorelDraw, ChemDraw Databases: Beilstein, SciFinder Scholar

### Working Experience

During Master studies	Al-Nahrain chemistry Labs supervision
2005-till now	Mustansiriyah university as lecturer and researcher

### Languages

<b>Arabic</b>	Native speaker
<b>English</b>	fluently in writing, listening and speaking
<b>German</b>	Average

Awards	
<b>Scholarships</b>	<p>Deutscher Akademischer Austausch Dienst (DAAD)</p> <p>German Academic Exchange Service Scholarship</p> <p>2008-2012 (Full Ph.D. scholarship)</p> <p>The Matsumae International Foundation (MIF), Japan</p> <p>October 2016- April 2017</p> <p>Postdoc at the Institute of Chemistry, Department of Organic Chemistry, Rostock university, Germany, Research group of Professor Peter Langer (August 2015- August 2016) supporting by ministry of higher education and scientific research Iraq/Baghdad.</p>
Research Interests	
	<ul style="list-style-type: none"> <li>• Palladium catalyzed couplings</li> <li>• Methodology development in heterocycles synthesis</li> <li>• Homogeneous catalysis</li> <li>• Asymmetrical synthesis</li> </ul>
Hobby	
	<p>Music, Photography, Reading, and several group matches like Football</p>

### List of publications:-

[1] “Domino C-N coupling / annulation versus C-N coupling / hydroamination of 2-alkynyl-3-bromobenzothiophenes and 2-alkynyl-3-bromothiophenes. Highly efficient synthesis of benzothieno[3,2-b]quinolines and thieno[3,2-b] pyrroles. **Salman, G. A.**; Hussain, M.; Iaroshenko, V. O.; Villinger, A.; Langer, P. *Adv. Synth. Catal.* **2011**, 353, 331.

- [2] "Regioselective Suzuki-Miyaura Reactions of the Bis(triflate) of 1,2,3,4-Tetrahydro-9,10-dihydroxyanthracen-1-one". **Salman, G. A.**; Mahal, A.; Shkooor, M.; Hussain, M.; Villinger, A.; Langer, P. *Tetrahedron Lett.* **2011**, 52, 392.
- [3] "Site-selective Suzuki-Miyaura Reactions of the Bis(triflate) of 5,10-Dihydroxy-11Hbenzo[b]fluoren-11-one". **Salman, G. A.**; Hussain, M.; Villinger, A.; Langer, P. *Synlett*, No. 20, **2010**, 3031.
- [4] "Synthesis of Functionalized Benzofurans by a Double Heck Reaction of 2,3-Dibromofurans and Subsequent  $6\pi$ -Electrocyclization/Dehydrogenation". **Salman, G. A.**; Ali, A.; Hussain, M.; Khera, R. A.; Langer, P. *Synthesis*, **2011**, No. 14, 2208.
- [5] "Efficient Synthesis of Functionalized Anthraquinones by Domino Twofold Heck /  $6\pi$ -Electrocyclization Reactions of 2,3-Dibromonaphthoquinone". Hussain, M.; Zinad, D. S.; **Salman, G. A.**; Sharif, M.; Villinger, A.; Langer, P. *Synlett* **2010**, 276-280.
- [6] "Pyrrole versus quinoline formation in the palladium catalyzed reaction of 2-alkynyl-3-bromothiophenes and 2-alkynyl-3-bromofurans with anilines. A combined experimental and computational study". **Salman, G. A.**, Nisa, R.; Iaroshenko, V.; Iqbal, J.; Ayub, K.; Langer, P. *Org. Biomol. Chem.* **2012**, 10, 9464.
- [7] "Palladium(0)-catalyzed Domino C-N Coupling/Hydroamination/C-H Arylation: Efficient Synthesis of Benzothieno[2',3':4,5]pyrrolo[1,2-f]phenanthridines". **Salman, G. A.**, Ngo Nghia Pham, a, Thang Ngoc Ngo, Peter Ehlers, Alexander Villinger, and Peter Langer, *Adv. Synth. Catal.* **2017**, 359, 1–6.
- [8] "Synthesis of Pyrimido[5',4':4,5]pyrrolo[1,2-f]phenanthridines by a One-Pot C–N-Coupling/Hydroamination/C–H-Arylation Sequence". Ngo Nghia Pham, **Salman, G. A.**, Nadjah Belattar, Tuan Thanh Dang, Peter Ehlers, and Peter Langer, *Eur. J. Org. Chem.* **2017**, 989–995.

[9] "Synthesis of Quinolino[3',4':4,5]pyrrolo[1,2-f]phenanthridines by Regioselective Sonogashira Reaction Followed by Domino C–N Coupling/Hydroamination/C–H Arylation". Ngo Nghia Pham, **Salman, G. A.**, Marian Blanco Ponce, Tuan Thanh Dang, Anke Spannenberg, Peter Ehlers, and Peter Langer, *Eur. J. Org. Chem.* **2017**, 3865–3873.

[10] "Rapid interaction, in aqueous media, between anionic dyes and cellulosic Nerium oleander fibers modified with Ethylene-Diamine and Hydrazine". Mahjoub Jabli, Najeh Tka, **Salman, G. A.**, Arwa Elaissi, Nouha Sebeia, Mohamed Hamdaoui, *Journal of Molecular Liquids*, 242 (2017) 272–283.

[11] "Synthesis of Novel 3-Acetyl N-methyl-2- Quinolone Derivatives with Expected Antimicrobial Activity". **Salman, G. A.**, *Al-Mustansiriya Journal of Science*, **2017**, 14, 234.

[12] "Convenient synthesis of 11-substituted 11*H*-indolo[3,2-*c*]quinolines by sequential chemoselective Suzuki reaction/double C-N coupling". Ngo Nghia Pham, Sophie Janke, **Salman, G. A.**, Tuan Thanh Dang, Thanh Son Le, Anke Spannenberg, Peter Ehlers, Peter Langer, *Eur. J. Org. Chem.* **2017**, 5554–5565

[13] " Amines modified fibers obtained from natural Populus tremula and their rapid biosorption of Acid Blue 25 ". Najeh Tka, Mahjoub Jabli, Tawfik A. Saleh, **Salman, G. A.**, *Journal of Molecular Liquids*, 250 (2017) 423–432.

[14] " Comparative Study on Conventional and Ultrasound Irradiation Promoted Synthesis of 2,3-Disubstitutedquinoxaline Derivatives". **Salman, G. A.**, Hamid Mohammed, Ahmed Mutanabbi Abdula, Zainab N. Mageed, *Al-Mustansiriya Journal of Science*, **2017**, 28, 344.

[15] " Convenient synthesis of 10*H*-indolo[3,2-*b*]quinolines and 6*H*-indolo [2,3-*b*]quinolines by sequential chemoselective Suzuki reaction followed by double C-N coupling". **Salman, G. A.**, Sophie Janke, Ngo Nghia Pham, Peter Ehlers, Peter Langer, *Tetrahedron Journal*, 74 (2018) 1024-1032.

- [16] "Design, synthesis, and biological evaluation of new quinoline-based heterocyclic derivatives as novel antibacterial agents" **Salman, G. A.**, Dhafer, S. Zinad, Ahmed Mahal, *Monatshefte für Chemie - Chemical Monthly*, 151 (2020), 1621–1628.
- [17] Synthesis of 2-Alkynyl- and 2-Amino-12H-benzothiazolo[2,3-b]quinazolin-12-ones and Their Inhibitory Potential against Monoamine Oxidase A and B, Behzad Jafari, Saquib Jalil, Sumera Zaib, Sayfidin Safarov, Muattar Khalikova, Djurabay Khalikov, Meirambek Ospanov, Nazym Yelibayeva, Shynar Zhumagalieva, Zharylkasyn A. Abilov, Mirgul Z. Turmukhanova, Sergey N. Kalugin, **Ghazwan Ali Salman**, Peter Ehlers, Abdul Hameed, Jamshed Iqbal, Peter Langer, *Chemistry select*, 19, 2019, 13760-13767.
- [18] "Molecular modeling study and Antifungal activity of some synthesized Quinoline derivatives" Dhafer, S. Zinad, **Salman, G. A.**, Ahmed Mahal, *AIP conference proceeding Scopus Indexed*, second international scientific conference (SISC2021) 24-25 May 2021/ college of science, Al-Nahtrain university Baghdad/Iraq.
- [19] Synthesis, Antibacterial Activity, and Molecular Docking Study of Bispyrazole-Based Derivatives as Potential Antibacterial Agents" **Ghazwan Ali Salman**, Dhafer S. Zinad, [b] Ahmed Mahal, Mohammad Rizki Fadhil Pratama, Meiato Duan, Anas Alkhouri, and Ahmed Alamiery, *ChemistrySelect*, 2022, 7, e202103901 (1 of 6).
- [20] Synthesis of Novel Quinolines with Antibacterial Activity" Dhafer S. Zinad, Ahmed Mahal, **Ghazwan Ali Salman**, Ihsan A. Alduhan, Mohamed Yahya, Duan Meito, Anas Alkhouri & Younis S. Zinad, *Organic Preparations and Procedures International*, Volume 56, 2024 - Issue 2.
- [21] Synthesis, DFT investigation, molecular docking, drug-likeness and molecular dynamic analysis of new quinoxaline-based pyrazoline derivatives" **Ghazwan Ali Salman**, Dhafer S. Zinad, Anas Alkhouri, Ahmed Mahal, Meriem Khedraoui, Samir Chtita, Meitao Duan, Ahmad J. Obaidullah, Hany S. Zinad, *journal of molecular structure*, Vol. 1339, 5 September 2025, 142405.

