



Abbas Washeel Salman

عباس وشيل سلمان محمد الفضلي

Professor

PROFILE

Abbas Washeel Salman, is a Professor specializing in the field of Synthetic Inorganic Chemistry. He earned his doctoral degree in Synthetic Inorganic Chemistry from Universiti Sains Malaysia (USM) in 2012.

Professor Salman's research focuses primarily on synthetic inorganic chemistry, exploring the design, synthesis, and characterization of novel inorganic compounds and coordination complexes. He has authored 50 scientific publications, establishing a respected research profile. His scholarly impact is highlighted by an h-index of 19 on both Google Scholar and Scopus, with his work garnering over 1,330 citations on Google Scholar and more than 1,160 on Scopus.

He was promoted to the rank of Professor in 2022.

ACADEMIC TITLES

2022-03-27 Professor

2022-03-27 Professor

ADMINISTRATIVE POSITIONS

2015-01-10 - 2017-01-06 Head of Chemistry Department

PUBLICATIONS (7 4)

- Metal-organic-frameworks (MOFs) advanced synthetic strategies and applications, including light emitting diodes, solar cells and photodetectors**
Reviews in Inorganic Chemistry 45 (4), 863-883, 2025 | 2025 | Cited: 9
- Gold complexes: a new frontier in the battle against lung cancer**
Reviews in Inorganic Chemistry 45 (3), 647-662, 2025 | 2025 | Cited: 3
- Advances in synthesis and anticancer applications of organo-tellurium compounds**
Reviews in Inorganic Chemistry 45 (2), 337-358, 2025 | 2025 | Cited: 11
- Advancement in schiff base complexes for treatment of colon cancer**
Reviews in Inorganic Chemistry 45 (3), 565-585, 2025 | 2025 | Cited: 7
- Gold complexes: A new frontier in the battle against lung cancer**
Reviews in Inorganic Chemistry | 2024 | Cited: 3
- Advances in synthesis and anticancer applications of organo-tellurium compounds**
Reviews in Inorganic Chemistry | 2024 | Cited: 11
- Advancement in schiff base complexes for treatment of colon cancer**
Reviews in Inorganic Chemistry | 2024 | Cited: 7
- Ruthenium complexes for breast cancer therapy**
Reviews in Inorganic Chemistry 44 (2), 191-208, 2024 | 2024 | Cited: 21
- Pd(II) Complexes Derived from Sugar-Incorporated N-Heterocyclic Carbene (Nhc) Ligands as a Promising Source for Pancreatic Adenocarcinoma Treatment**
SSRN | 2024

CONTACT

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EDUCATION

دكتوراه (12-09-2012)

Synthetic Inorganic Chemistry

Universiti Sains Malaysia (USM)

RESEARCH METRICS

h-index (Scopus) 20

h-index (GS) 20

Citations (Scopus) 1201

Citations (GS) 1383

Documents (Scopus) 43

Documents (GS) 53



10. **New sugar-incorporated N-heterocyclic carbene precursors and their Ag(I) and Pd(II) complexes: Synthesis, characterization, and cytotoxicity studies**
Journal of Molecular Liquids | 2024 | Cited: 6
11. **Hydrogel nanocomposite of acrylic acid-grafted sodium alginate-based zinc oxide: synthesis, characterization, and applicability for crystal violet dye removal**
Journal of Nanostructures 13 (1), 223-237, 2023 | 2023 | Cited: 9
12. **Fabrication and structural design of MXene-based hydrogels**
Handbook of Functionalized Nanostructured MXenes: Synthetic Strategies and..., 2023 | 2023 | Cited: 8
13. **Effect of Sr/Mg co-substitution on corrosion resistance properties of hydroxyapatite coated on Ti–6Al–4V dental alloys**
Journal of Physics and Chemistry of Solids 161, 110450, 2022 | 2022 | Cited: 28
14. **Theoretical and experimental studies of copper(II) and nickel(II) complexes derived from the ligand N-benzyl benzimidazole as corrosion inhibitors in ionic and bacterial media**
International Journal of Corrosion and Scale Inhibition | 2022 | Cited: 2
15. **Metal complexes of a new azo ligand 2-[2'-(5-nitrothiazolyl) azo]-4-methoxyphenol (NTAMP): Synthesis, spectral characterization, and theoretical calculation**
Inorganic Chemistry Communications | 2022 | Cited: 61
16. **Synthesis of a new nanocomposite with the core TiO₂/hydrogel: Brilliant green dye adsorption, isotherms, kinetics, and DFT studies**
Journal of Industrial and Engineering Chemistry | 2022 | Cited: 81
17. **Development and evaluation of biocompatible topical petrolatum-liquid crystal formulations with enhanced skin permeation properties**
Journal of Oleo Science 71 (3), 459-468, 2022 | 2022 | Cited: 23
18. **Synthesis of a new nanocomposite with the core TiO₂/hydrogel: Brilliant green dye adsorption, isotherms, kinetics, and DFT studies**
Journal of Industrial and Engineering Chemistry 109, 475-485, 2022 | 2022 | Cited: 83
19. **Synthesis, characterization, and applicability of an acrylic acid-grafted sodium alginate- based Zinc oxide hydrogel nanocomposite for crystal violet dye removal**
Research Square | 2022
20. **Efficient Methods for Synthesis of B-Diketonates Complexes of Europium**
SSRN | 2022
21. **New Ag(I) and Pd(II) complexes derived from symmetrical and asymmetrical NHC precursors: Synthesis, Characterization, Antibacterial activity, and Theoretical calculations**
Journal of Molecular Structure | 2021 | Cited: 20
22. **1-Isoquinolinyl phenyl ketone as a corrosion inhibitor: A theoretical study**
Materials Today: Proceedings 42, 2241-2246, 2021 | 2021 | Cited: 43
23. **Inhibition of SARS-CoV-2 reproduction using Boswellia carterii: a theoretical study**
Journal of Molecular Liquids 337, 116440, 2021 | 2021 | Cited: 35
24. **Theoretical evaluation of Citrus Aurantium leaf extract as green inhibitor for chemical and biological corrosion of mild steel in acidic solution: Statistical, molecular dynamics, docking, and quantum mechanics study**
Journal of Molecular Liquids | 2021
25. **Theoretical evaluation of Citrus Aurantium leaf extract as green inhibitor for chemical and biological corrosion of mild steel in acidic solution: Statistical, molecular**...
Journal of Molecular Liquids 343, 116978, 2021 | 2021 | Cited: 116
26. **Metal complexes of 1,6-bis(1-benzimidazolyl) hexane: Synthesis, characterization and biological activity against some soil-borne fungi**
Journal of Physics: Conference Series | 2021
27. **Novel triazine-functionalized tetra-imidazolium hexafluorophosphate salt: Synthesis, crystal structure and DFT study**
Journal of Molecular Structure 1198, 126902, 2019 | 2019 | Cited: 24

28. **Synthesis, Structure and Antibacterial Activity of 1, 4-bis (1-benzimidazolyl) butane Complexes with some Transition Metal Salts**
2019
29. **Synthesis, characterization and antibacterial activity of some transition metal complexes derived from the ligand N-benzylimidazole against methicillin-resistantt ...**
Int. J. Drug Delivery Technol 9, 666, 2019 | 2019 | Cited: 4
30. **Synthesis, characterization and antibacterial activity of some transition metal complexes derived from the ligand N-benzylimidazole against methicillin-resistantt Staphylococcus aureus (Mrsa)**
International Journal of Drug Delivery Technology | 2019
31. **Study mass attenuation coeffi cient of dinitrate is (1-benzylbenzimidazole) Copper (II) by using gamma-ray sources for energy range 122-1330 KeV**
Journal of Engineering and Applied Sciences, 13 (23), 9924 - 9929, 2018 | 2018 | Cited: 6
32. **Study mass attenuation coefficient of dinitratobis (1-benzylbenzimidazole) Copper (II) by using gamma ray sources for energy range 122-1330 keV**
Journal of Engineering and Applied Sciences | 2018
33. **Study mass attenuation coefficient of dinitrate is (1-benzylbenzimidazole) Copper (II) by using gamma-ray sources for energy range 122-1330 KeV**
HAL (Le Centre pour la Communication Scientifique Directe), 2018 | 2018
34. **Mixed Ligands Ternary Complexes of n-Acetylcysteine with Some Transition Metal Ions; Synthesis, Characterization, Biological and Antitumor Activities**
Journal of Chemical and Pharmaceutical Research 9 (10), 2017 | 2017
35. **Antibacterial activity of new benzylbenzimidazole complexes against Grampositive (+ ve) and-negative (-ve) bacterial species isolated from surgical wounds of Iraqi patients**
Int. J. of Multidisciplinary and Current research 5, 2017 | 2017 | Cited: 3
36. **The Investigation of a New Solar Water Collector**
J. Energy Technol. Policy. 7, 33-40, 2017 | 2017 | Cited: 1
37. **Pd (II) and trinuclear Ag (I) bis-N-heterocyclic carbene complexes: synthesis, structural and in vitro anticancer activity**
European Journal of Chemistry 7 (1), 115-120, 2016 | 2016 | Cited: 16
38. **Synthesis, characterization, density function theory and catalytic performances of palladium(II)-N-heterocyclic carbene complexes derived from benzimidazol-2-ylidenes**
Inorganica Chimica Acta | 2015 | Cited: 17
39. **Sterically modulated palladium(II)-N-heterocyclic carbene complexes for the catalytic oxidation of olefins: Synthesis, crystal structure, characterization and DFT studies**
Polyhedron | 2014 | Cited: 31
40. **Sterically tuned Ag(i)- and Pd(ii)-N-heterocyclic carbene complexes of imidazol-2-ylidenes: Synthesis, crystal structures, and in vitro antibacterial and anticancer studies**
Metallomics | 2013
41. **Coordination diversity of Ag (I) and Hg (II) towards symmetrically and non-symmetrically substituted imidazol-2-ylidenes: Synthesis, crystal structures, nitrile reactivity, and ...**
Polyhedron 49 (1), 200-206, 2013 | 2013 | Cited: 27
42. **Silver(I)-N-heterocyclic carbene complexes of bis-imidazol-2-ylidenes having different aromatic-spacers: synthesis, crystal structure, and in vitro antimicrobial ...**
Applied Organometallic Chemistry 27 (8), 465-473, 2013 | 2013 | Cited: 42
43. **Sterically tuned Ag(i)- and Pd(ii)-N-heterocyclic carbene complexes of imidazol-2-ylidenes: synthesis, crystal structures, and in vitro antibacterial and anticancer ...**
Metallomics 5 (6), 760-769, 2013 | 2013 | Cited: 70
44. **Biologically relevant silver(I)-N-heterocyclic carbene complexes: Synthesis, structure, intramolecular interactions, and applications**
European Journal of Inorganic Chemistry | 2013 | Cited: 123

45. **Coordination diversity of Ag(I) and Hg(II) towards symmetrically and non-symmetrically substituted imidazol-2-ylidenes: Synthesis, crystal structures, nitrile reactivity, and Hofmann-type elimination studies**
Polyhedron | 2013
46. **Non-symmetrically substituted N-heterocyclic carbene-Ag(I) complexes of benzimidazol-2-ylidenes: Synthesis, crystal structures, anticancer activity and transmetallation studies**
Inorganica Chimica Acta | 2013 | Cited: 79
47. **Silver(I)-N-heterocyclic carbene complexes of bis-imidazol-2-ylidenes having different aromatic-spacers: Synthesis, crystal structure, and in vitro antimicrobial and anticancer studies**
Applied Organometallic Chemistry | 2013
48. **3-(3-Cyano-benz-yl)-1-methyl-1H-imidazol-3-ium hexa-fluoro-phosphate**
Acta Crystallographica Section E: Structure Reports Online | 2012
49. **Ag (I)-N-heterocyclic carbene complexes of N-allyl substituted imidazol-2-ylidenes with ortho-, meta-and para-xylyl spacers: Synthesis, crystal structures and in vitro ... **
Inorganic chemistry communications 22, 113-119, 2012 | 2012 | Cited: 81
50. **Stereochemical and structural characteristics of single-and double-site Pd (II)–N-heterocyclic carbene complexes: Promising catalysts in organic syntheses ranging from CC ... **
Coordination Chemistry Reviews 256 (17-18), 1787-1830, 2012 | 2012 | Cited: 201
51. **Cationic nitrile-functionalized Ag(I)- and Hg(II)-N-heterocyclic carbene complexes of CCC, CNC, and NCN pincer-type carbene ligands: Synthesis, crystal structures, and characterization**
Heteroatom Chemistry | 2012
52. **Mercury(II)- and silver(I)-N-heterocyclic carbene complexes of CNC pincer-type ligands: Synthesis, crystal structures and Hofmann-type elimination studies**
Inorganica Chimica Acta | 2012 | Cited: 40
53. **Stereochemical and structural characteristics of single- and double-site Pd(II)-N-heterocyclic carbene complexes: Promising catalysts in organic syntheses ranging from CC coupling to olefin polymerizations**
Coordination Chemistry Reviews | 2012
54. **New Hg (II)–N-heterocyclic carbene complexes of compartmental ligands with a suitable topology for a η^1 -arene–Hg (II) close interaction**
Polyhedron 42 (1), 18-23, 2012 | 2012 | Cited: 15
55. **3-(3-Cyanobenzyl)-1-methyl-1H-imidazol-3-ium hexafluorophosphate**
Structure Reports 68 (2), o489-o490, 2012 | 2012 | Cited: 4
56. **Cationic nitrile-functionalized Ag(I)- and Hg(II)-N-heterocyclic carbene complexes of CCC, CNC, and NCN pincer-type carbene ligands: Synthesis, crystal ... **
Heteroatom Chemistry 23 (5), 486-497, 2012 | 2012 | Cited: 26
57. **New Hg(II)-N-heterocyclic carbene complexes of compartmental ligands with a suitable topology for a $\eta^{¹}$ -arene-Hg(II) close interaction**
Polyhedron | 2012
58. **Ag(I)-N-heterocyclic carbene complexes of N-allyl substituted imidazol-2-ylidenes with ortho-, meta- and para-xylyl spacers: Synthesis, crystal structures and in vitro anticancer studies**
Inorganic Chemistry Communications | 2012
59. **New N-heterocyclic carbene mercury(II) complexes: Close mercury-arene interaction**
Journal of Organometallic Chemistry | 2011 | Cited: 40
60. **Synthesis and Characterization of New Silver (I)-and Mercury (II)-N-Heterocyclic Carbene Complexes**
Australian Journal of Basic and Applied Sciences 5 (9), 365-370, 2011 | 2011 | Cited: 7
61. **Bis (1-benzyl-3-methylimidazolium-KC2) mercury (II) bis (hexafluoridophosphate)**
Structure Reports 67 (9), m1242-m1243, 2011 | 2011 | Cited: 8
62. **2,4-Bis[(3-butylimidazol-3-ium-1-yl)methyl]-1,3,5-trimethylbenzene bis(hexafluorophosphate)**
Acta Crystallographica Section E: Structure Reports Online | 2011 | Cited: 1

63. **3,3'-Dibenzyl-1,1'-(2,4,6-trimethyl-m-phenylenedimethylene) diimidazol-3-ium dibromide**
Acta Crystallographica Section E: Structure Reports Online | 2011 | Cited: 6
64. **Bis(1-benzyl-3-methylimidazolium-KC²⁺)mercury(II) bis(hexafluoridophosphate)**
Acta Crystallographica Section E: Structure Reports Online | 2011
65. **Potassium bis[bis(1-benzyl-3-methylimidazolium)silver(I)] tris(hexafluoridophosphate)**
Acta Crystallographica Section E: Structure Reports Online | 2011 | Cited: 70
66. **3,3000-Di-n-butyl-1,1000-(p-phenylene- dimethylene)diimidazolium bis(hexafluorophosphate)**
Acta Crystallographica Section E | 2010
67. **3,5-Bis(3-methylimidazolium-1-yl- methyl)toluene bis(hexafluorophosphate)**
Acta Crystallographica Section E | 2010
68. **Bis{1,4-bis[(3-butylimidazolium-1-yl)- methyl]benzene}silver(I) bis(hexa- fluoridophosphate)**
Acta Crystallographica Section E: Structure Reports Online, m1286–m1287, 2010 | 2010 | Cited: 2
69. **3,3--Di-n-butyl-1,1'-(p-phenylene- dimethylene)diimidazolium bis(hexafluorophosphate)**
Acta Crystallographica Section E: Structure Reports Online, o824–o825, 2010 | 2010 | Cited: 7
70. **3, 5-Bis (3-methylimidazolium-1-ylmethyl) toluene bis (hexafluorophosphate)**
Structure Reports 66 (3), o556-o556, 2010 | 2010 | Cited: 2
71. **3,5-Bis(3-butylimidazolium-1-ylmethyl)- toluene bis(hexafluorophosphate)**
Acta Crystallographica Section E: Structure Reports Online, o2797–o2798, 2010 | 2010 | Cited: 5
72. **Mercury (II) and Silver (I) N-Heterocyclic Carbene (NHC) Complexes: Syntheses and New Binding Motifs**
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73. **Bis (1-benzyl-3-methylimidazolium-jC 2)-mercury (II) bis (hexafluoridophosphate)**
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74. **Pd (II) Complexes Derived from Sugar-Incorporated N-Heterocyclic Carbene (Nhc) Ligands as a Promising Source for Pancreatic Adenocarcinoma Treatment**
Available at SSRN 4995121, 0 | 0