Ahmed F Halbus

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Associate Professor

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EDUCATION

Doctorate (2019-11-06)
Chemistry
University of Hull

RESEARCH METRICS

h-index (Scopus)	18
h-index (GS)	20
Citations (Scopus)	1018
Citations (GS)	1315
Documents (Scopus)	47
Documents (GS)	58

ACADEMIC TITLES

2022-12-18 **Associate Professor**

ADMINISTRATIVE POSITIONS

2023-06-21 - Present **Director of Scholarships and Culture Relation Department/University of Babylon**

PUBLICATIONS (59)

1. **Fabrication of a chitosan–activated carbon composite and evaluation of its adsorption efficiency for Bismarck Brown G dye removal**
Proceedings of the Indian National Science Academy, 1-12, 2026 | 2026

2. **Fabrication of Hybrid Chitosan/HKUST-1 Dried Hydrogel Discs for Enhanced Antibacterial Activity**
Journal of Polymers and the Environment 34 (1), 17, 2026 | 2026 | Cited: 1

3. **Polyelectrolyte-modified zinc oxide nanoparticles for efficient removal of Reactive Green 19 dye from wastewater**
Journal of Nanoparticle Research 28 (7), 186, 2026 | 2026

4. **Thermoresponsive and reusable chitosan/hydroxypropyl cellulose monolithic hydrogel with interconnected porosity engineered via freeze–thaw processing for selective dyes removal**
International Journal of Biological Macromolecules, 148899, 2025 | 2025 | Cited: 4

5. **Green triiron tetraoxide@ Algae (Fe3O4@ Algae) nanoparticles for highly efficient removal of lead (Pb2+), cadmium (Cd2+), and aluminum (Al3+) from contaminated water: an ...**
Environmental Science and Pollution Research 32 (11), 6817-6838, 2025 | 2025 | Cited: 12

6. **Exploring the Chemistry of Phthalocyanines based on Phthalic Anhydride and their applications**
Proceedings of the Indian National Science Academy, 1-18, 2025 | 2025

7. **Development and optimization of a carbon nanotubes–kaolinite composite for highly efficient removal of methyl red dye from aqueous solutions**
Reaction Kinetics, Mechanisms and Catalysis 138 (5), 3229-3245, 2025 | 2025 | Cited: 3

8. **Green triiron tetraoxide@Algae (Fe₃O₄@Algae) nanoparticles for highly efficient removal of lead (Pb²⁺), cadmium (Cd²⁺), and aluminum (Al³⁺) from contaminated water: an isothermal, kinetic, and thermodynamic study**
Environmental Science and Pollution Research | 2025

9. **Manganese Electrochemistry in a Deep Eutectic Solvent: The Effects of KBr**
ChemistrySelect 9 (39), e202401407, 2024 | 2024 | Cited: 1

10. **Hybrid chitosan/HKUST-1 hydrogel with freezing and thawing modification as sustainable porous material for removal and selective separation of dye mixtures**
Journal of Environmental Chemical Engineering 12 (5), 113696, 2024 | 2024 | Cited: 34

11. **Comparison activity of pure and chromium-doped nickel oxide nanoparticles for the selective removal of dyes from water**
Scientific Reports 14 (1), 4032, 2024 | 2024 | Cited: 34

12. **High-performance photocatalytic degradation and antifungal activity of chromium-doped nickel oxide nanoparticles**
Analytical Sciences, 1-16, 2024 | 2024 | Cited: 10

13. **Modification of the synthesized zinc oxide nanoparticles by doping with nitrogen with investigation its antibacterial activity**
AIP Conference Proceedings 2787 (1), 2023 | 2023

14. **Surface-modified iron oxide nanoparticles for adsorption, photodegradation, and selective removal applications**
Monatshefte für Chemie-Chemical Monthly, 1-18, 2023 | 2023 | Cited: 6

15. **Boosting iron oxide nanoparticles activity for dyes removal and antifungal applications by modifying its surface with polyelectrolytes**
Chemical Physics Impact, 100244, 2023 | 2023 | Cited: 14

16. **Characterization of the electrochemical deposition of aluminum from an AlCl3:N-methylacetamide eutectic solvent modified with nicotinamide**
Surface and Coatings Technology | 2023 | Cited: 16

17. **Fabrication of graded porous structure of hydroxypropyl cellulose hydrogels via temperature-induced phase separation**
Carbohydrate Polymers 315, 120984, 2023 | 2023 | Cited: 45

18. **Enhanced macroporous cationic chitosan hydrogel by freezing and thawing method with superadsorption capacity for anionic dyes**
Journal of Polymers and the Environment 30 (9), 3815-3831, 2022 | 2022 | Cited: 32

19. **Fabrication of carbon nanotube (CNTs)/Co3O4-Ni3O4/Al2O3 nanocomposite catalyst and its application for photocatalytic removal of Celestine blue dye**
Egyptian Journal of Chemistry 65 (6), 99-110, 2022 | 2022 | Cited: 3

20. **Antimould action of Ziram and IPBC loaded in functionalised nanogels against Aspergillus niger and Penicillium chrysogenum**
Materials Advances 3 (22), 8178-8192, 2022 | 2022 | Cited: 6

21. **Synthesis of Carbon Nanotubes with A Few Walls by Chemical Vapour Deposition Method Using A Mixture of Ethanol/NPropanol As A Source of Carbon Species**
Egyptian Journal of Chemistry 65 (131), 535-542, 2022 | 2022

22. **Emerging nanotechnologies for targeting antimicrobial resistance**
Nanoscale 14 (11), 4018-4041, 2022 | 2022 | Cited: 64

23. **One-step strategy for the synthesis of magnetic mesoporous carbon composite materials incorporating iron, cobalt and nickel nanoparticles**
Chemical Papers 76 (9), 5613-5625, 2022 | 2022 | Cited: 1

24. **Adsorption, photodegradation, and selective removal of reactive red 2 dye onto cuprous oxide nanoparticles**
Monatshefte für Chemie-Chemical Monthly 153 (7-8), 597-607, 2022 | 2022 | Cited: 14

25. **A simple method for the synthesis of high surface area mesoporous carbon monolith via soft template technique**
Egyptian Journal of Chemistry 64 (10), 5793-5801, 2021 | 2021 | Cited: 3

26. **Enhanced antimould action of surface modified copper oxide nanoparticles with phenylboronic acid surface functionality**
Biomimetics 6 (1), 19, 2021 | 2021 | Cited: 17

27. **Review on preparation and characterization of activated carbon from low cost waste materials**
Egyptian Journal of Chemistry 64 (12), 7255-7268, 2021 | 2021 | Cited: 16

28. **Preparation and investigation of some physical properties and photocatalytic activity of a co-catalyst CoO-V2O5**
Journal of Physics: Conference Series 1999 (1), 012002, 2021 | 2021 | Cited: 3

29. **Surface-modified zinc oxide nanoparticles for antialgal and antiyeast applications**
ACS Applied Nano Materials 3 (1), 440-451, 2020 | 2020 | Cited: 79

30. **Controlling the antimicrobial action of surface modified magnesium hydroxide nanoparticles**
Biomimetics 4 (2), 41, 2019 | 2019 | Cited: 76

31. **Boosting the antimicrobial action of vancomycin formulated in shellac nanoparticles of dual-surface functionality**
Journal of materials chemistry B 7 (19), 3119-3133, 2019 | 2019 | Cited: 30

32. **“Ghost” silica nanoparticles of “host”-inherited antibacterial action**
ACS applied materials & interfaces 11 (42), 38519-38530, 2019 | 2019 | Cited: 30

33. **Strongly enhanced antibacterial action of copper oxide nanoparticles with boronic acid surface functionality**
ACS applied materials & interfaces 11 (13), 12232-12243, 2019 | 2019 | Cited: 126

34. **Self-grafting copper oxide nanoparticles show a strong enhancement of their anti-algal and anti-yeast action**
Nanoscale Advances 1 (6), 2323-2336, 2019 | 2019 | Cited: 38

35. **Colloid particle formulations for antimicrobial applications**
Advances in colloid and interface science 249, 134-148, 2017 | 2017 | Cited: 119

36. **Equilibrium, isotherms and thermodynamic studies of congo red adsorption onto Ceratophyllum Demersum**
Indian Journal of Chemical Technology (IJCT) 24 (1), 82-87, 2017 | 2017 | Cited: 11

37. **Photocatalytic hydrogen production from aqueous methanol solution over metallized TiO2**
Int. J. ChemTech Res 9 (10), 90-98, 2016 | 2016 | Cited: 25

38. **Removal of reactive yellow 145 dye from simulated industrial wastewaters on Iraqi khestawy date palm seeds based activated carbons**
RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES 6 (6 ..., 2015 | 2015 | Cited: 3

39. **Preparation and characterization of activated carbon from Iraqi Khestawy date palm**
Journal of chemistry 2015, 2015 | 2015 | Cited: 66

40. **Removal Reactive Blue Dye from Wastewater by Adsorption on White Iraqi Kaolin clay**
Journal of Babylon University/Pure and Applied Sciences 7, 1947-1956, 2014 | 2014 | Cited: 7

41. **Adsorption of reactive yellow dye 145 from wastewater onto Iraqi zahdy and khestawy date palm seeds activated carbons**
Asian Journal of Chemistry | 2014 | Cited: 19

42. **Effects of activators on adsorption ability of reactive yellow-145 dye on activated carbon from Iraqi zahdi date palm seeds**
Asian Journal of Chemistry | 2014 | Cited: 15

43. **Adsorption of reactive yellow-145 dye on activated carbons**
Int J Chem 3, 179-183, 2014 | 2014 | Cited: 11

44. **Adsorption of bismarck brown R dye onto multiwall carbon nanotubes**
J Environ Anal Chem 1 (104), 2, 2014 | 2014 | Cited: 34

45. **Preparation, Characterization, and Photocatalytic Applications of MWCNTs/TiO2 Composite**
International Journal of Photoenergy 2014, 2014 | 2014 | Cited: 66

46. **Photocatalytic degradation of anthracene in closed system reactor**
International Journal of Photoenergy 2014, 2014 | 2014 | Cited: 75

47. **Photocatalytic decolorization of cobalamin in aqueous suspensions of TiO2 and ZnO under solar irradiation**
Asian Journal of Chemistry 26 (12), 0000-0000, 2014 | 2014 | Cited: 6

48. **Adsorptionof cobalamin onto synthesized carbon nanotubes (CNT)**
Journal of Applicable Chemistry 2 (3), 589-604, 2013 | 2013 | Cited: 12

49. **Journal of Appl icabl e Chemistry**
Journal of Appl icabl e Chemistry 2 (3), 589-604, 2013 | 2013

50. **Adsorption of disperse blue dye on Iraqi date palm seeds activated carbon.**
International Journal of Chemical Sciences 11 (3), 1219-1233, 2013 | 2013 | Cited: 39

51. **Adsorption of Reactive Red 2 dye onto activated carbon prepared from hazelnut shells**
Iraqi National Journal of chemistry 13 (51), 273-387, 2013 | 2013 | Cited: 11

52. **Photocatalytic degradation of cobalamin by metalized TiO2**
Journal of University of Babylon 22 (1), 2012 | 2012

53. **Photocatalytic degradation of cobalamin**
M. Sc. Thesis, College of Sciences, University of Babylon, Iraq, 2012 | 2012 | Cited: 5

54. **Research Article Rapid Decolorization of Cobalamin**

2012

55. **Heterogeneous Photocatalytic Decolourization of Cobalamine in the Presence of Aqueous Titanium Dioxide Suspensions**

Asian Journal of Chemistry 24 (12), 5579, 2012 | 2012 | Cited: 5

56. **Rapid decolorization of cobalamin**

International Journal of PhotoenergyInternational Journal of Photoenergy 2012, 2012 | 2012 | Cited: 33

57. **Photocatalytic degradation of bismarck brown G using irradiated ZnO in aqueous solutions**

Journal of Chemistry 7, 540-544, 2010 | 2010 | Cited: 35

58. **Research Article Preparation, Characterization, and Photocatalytic Applications of MWCNTs/TiO**

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59. **Research Journal of Pharmaceutical, Biological and Chemical Sciences**

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