Talib M Albayati

طالب محمد نايف البياتي

Professor

CONTACT

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EDUCATION

(01-06-1995) بكلوريوس
Chemical Engineering
University of Technology

(21-01-2001) ماجستير
Chemical Engineering
University of Technology

(28-06-2009) دكتوراه
Chemical Engineering
University of Technology

RESEARCH METRICS

h-index (Scopus)	55
h-index (GS)	60
Citations (Scopus)	5703
Citations (GS)	6897
Documents (Scopus)	136
Documents (GS)	170

AWARDS

• Top Scientist

PATENTS

• Modern electrostatic spraying device for nano nickel chrome plating

RESEARCH INTERESTS

• Application of Nano porous materials in Chemical Engineering

PROFILE

Prof. Dr. Talib M. Albayati is Professor of Chemical Engineering at University of Technology/Chemical Engineering Department. He obtained his B.Sc. in Chemical Engineering from University of Technology/ Baghdad/Iraq in 1995. He obtained his M.Sc. in Chemical Engineering from University of Technology/ Baghdad/Iraq in 2001. He obtained his PH. D in Chemical Engineering from University of Technology/ Baghdad/Iraq in 2009. He obtained my Post-Doctorate in Nanotechnology-Manchester Metropolitan University (MMU), United Kingdom in 2012.

Research Interests

• Electrochemical coating process.
• Separation by Membrane.
• Nano catalyst in Petroleum refinery process.
• Biodiesel production
• Water and waste water treatments.
• Drug Delivery System by Nanoporous Materials.

ACADEMIC TITLES

2018-12-09 Professor

GRADUATE SUPERVISION

Application of Nanoporous Material in a Membrane Adsorption Reactor MAR as an Integral System for Removal of Pollutant from Wastewater
Saja Jabbar Mohsen (2020)

ADMINISTRATIVE POSITIONS

2016-08-01 - 2020-08-10 • Branch Boss of Chemical Engineering and Refinery Oil in Chemical Engineering Department, University of Technology, from 1.

PUBLICATIONS (252)

1. Systematic Study on preparation and Characterizations of High Performance Bimetallic Pt-Co/ SBA-15 Catalyst in n-Heptane Isomerization
ASEAN Journal on Science and Technology for Development 43 (1), 4, 2026 | 2026 | Cited: 3
2. Green polymer nanocomposite membranes for treating oily wastewater: A comprehensive review
Environmental Engineering Research 31 (2), 213-239, 2026 | 2026 | Cited: 2
3. Improving Ethanol Purity by Methanol Adsorption Using MCM-41: A Study of Kinetics and Thermodynamics for Industrial Applications
ASEAN Journal on Science and Technology for Development 43 (1), 8, 2026 | 2026
4. Green polymer nanocomposite membranes for treating oily wastewater: A comprehensive review
Environmental Engineering Research 31 (2), 2026 | 2026 | Cited: 2

5. **Improving Ethanol Purity by Methanol Adsorption Using MCM-41: A Study of Kinetics and Thermodynamics for Industrial Applications**
ASEAN Journal on Science and Technology for Development 42 (3), 3, 2026 | 2026

6. **Comparative performance of [Bmim][Tos] ionic liquid and furfural in efficient extraction of aromatic hydrocarbons in real heavy naphtha**
Chemical Engineering Communications, 1-15, 2026 | 2026 | Cited: 1

7. **Ecofriendly nano-silica prepared from the local sand as drag reduction agent (DRA) for crude oil in transportation pipeline**
Chemical Papers, 1-16, 2026 | 2026

8. **Effective Separation of Aromatic Hydrocarbons in Real Heavy Naphtha with [Bmim][Tos] Ionic Liquid: Experimental and Statistical Study**
Chemistry Africa 9 (1), 13, 2026 | 2026 | Cited: 1

9. **Application of Statistical Modeling and Optimization for Industrial Oily Wastewater Treatment by Hybrid Photocatalytic-Membrane Reactor System**
Water, Air, & Soil Pollution 237 (8), 475, 2026 | 2026

10. **Enhancement of BTX Extraction From Real Heavy Naphtha Using [Bmim][Tos] Ionic Liquid Solvent: A Comparative Experimental Study With Furfural**
ChemistrySelect 11 (5), e04659, 2026 | 2026

11. **Efficient Methylene Blue Removal Using a Mesoporous Triblock Copolymer Adsorbent in Batch and Continuous Adsorption Modes**
ChemistrySelect 11 (7), e04579, 2026 | 2026

12. **The role of microbial inoculum in improving composting performance and promoting compost maturation: A review**
Green Technologies and Sustainability | 2026

13. **Chitosan-grafted single-wall carbon nanotube/hydrogel composites for adsorptive dye removal**
Materials Chemistry and Physics | 2026

14. **Sustainable PAN/PLA blend membranes with green nanoparticles for efficient oil–water separation**
The Canadian Journal of Chemical Engineering | 2026

15. **A Review of Hydrogen Strategies in South, Southeast, and Southwest Asia: National Outlooks and Collaboration Opportunities for Canada**
Energy & Fuels, 2026 | 2026

16. **Comparison Study Performance Between the Photocatalytic Process and Membrane Filtration for Oily Wastewater Treatment**
Journal of Petroleum Research and Studies 16 (1), 185-201, 2026 | 2026

17. **Mechanistic insights into naphthalene removal from wastewater employing modified NH2-MCM-41 mesoporous materials in a batch adsorption process**
Chemical Papers 80 (2), 1897-1912, 2026 | 2026 | Cited: 1

18. **Synergistic CO2 Adsorption in MCM-41 via Pore-Confined Choline Chloride–Urea Deep Eutectic Solvent**
Microporous and Mesoporous Materials, 114145, 2026 | 2026

19. **Fabrication and characterization of eco-friendly PAN/PLA ultrafiltration membranes modified with onion peel-derived nanoparticles for oily wastewater treatment**
Emergent Materials 9 (5), 109, 2026 | 2026

20. **Methane Generation Using an Anaerobic Biodigester From Waste Leachate Water**
Asia-Pacific Journal of Chemical Engineering 21 (2), e70171, 2026 | 2026

21. **Sustainable photocatalytic‐membrane reactors for petroleum refinery wastewater remediation as a hybrid system**
Journal of Chemical Technology & Biotechnology 101 (5), 1035-1055, 2026 | 2026

22. **A Review of Hydrogen Strategies in South, Southeast, and Southwest Asia: National Outlooks and Collaboration Opportunities for Canada**
Energy & Fuels 40 (12), 5871-5943, 2026 | 2026

23. **Performance monitoring of effluent quality and transmembrane pressure in a hybrid system membrane bioreactor used to treat wastewater**
Environmental Progress & Sustainable Energy 45 (2), e70262, 2026 | 2026

24. **Sustainable photocatalytic‐membrane reactors for petroleum refinery wastewater remediation as a hybrid system**
Journal of Chemical Technology & Biotechnology, 2026 | 2026

25. **Nd: YAG Laser Annealing: Impact on the Photoconductive Properties of CdS Thin Films**
Journal of Applied Sciences and Nanotechnology 5 (2), 1-10, 2025 | 2025

26. **Preparation of eco-friendly nanocatalyst calcium oxide (CaO) for oily wastewater treatment by advanced oxidation process**
Journal of Applied Sciences and Nanotechnology 5 (1), 1-14, 2025 | 2025 | Cited: 8

27. **Green polymer nanocomposite membranes for treating oily wastewater: A comprehensive review**
Environmental Engineering Research | 2025

28. **Enhancing Emission Characteristics of a Diesel Engine Powered by Biodiesel Blends with Mesoporous Silica for Better Environmental Protection and Performance**
International Journal of Environmental Research | 2025

29. **Coupling of electrocoagulation and membrane in hybrid and integrated systems for wastewater treatment, focusing on trends of reactor designs, fundamentals, and factors affecting the process: A critical review**
Chemical Engineering and Processing - Process Intensification | 2025

30. **Encapsulation of lornoxicam onto amine functionalized KIT-6 nanoparticles as a drug delivery system for rheumatoid arthritis therapy**
Chemistry Africa 8 (6), 2421-2437, 2025 | 2025 | Cited: 5

31. **Loading and release of the anti-inflammatory drug lornoxicam implementing modified mesoporous silica KIT-5 nanoparticles**
Arabian Journal for Science and Engineering 50 (13), 10199-10217, 2025 | 2025 | Cited: 1

32. **Performance monitoring of effluent quality and transmembrane pressure in a hybrid system membrane bioreactor used to treat wastewater**
Environmental Progress & Sustainable Energy, e70262, 2025 | 2025

33. **Bimetallic Loaded Onto SBA‐15 Mesoporous Catalysts for Improvement n‐Heptane Isomerization**
Asia‐Pacific Journal of Chemical Engineering 20 (6), e70105, 2025 | 2025 | Cited: 1

34. **Comparative Simulation of PI and Fuzzy Control for Fluid Catalytic Cracking Unit**
Iranian Journal of Chemistry and Chemical Engineering 44 (3), 846-857, 2025 | 2025 | Cited: 1

35. **Chitosan-grafted single-wall carbon nanotube/hydrogel composites for adsorptive dye removal**
Materials Chemistry and Physics, 131992, 2025 | 2025 | Cited: 1

36. **Coupling of electrocoagulation and membrane in hybrid and integrated systems for wastewater treatment, focusing on trends of reactor designs, fundamentals, and factors ...**
Chemical Engineering and Processing-Process Intensification 208, 110093, 2025 | 2025 | Cited: 16

37. **Effective adsorption of Brilliant Pink-B dye using bio adsorbent synthesized from agriculture waste: isotherm, kinetic, and thermodynamic studies**
Biomass Conversion and Biorefinery 15 (12), 18873-18885, 2025 | 2025 | Cited: 6

38. **Preparation of eco-friendly nanocatalyst calcium oxide (CaO) for oily wastewater treatment by advanced oxidation process**
Journal of Applied Sciences and Nanotechnology 5 (1), 1-14, 2025 | 2025 | Cited: 8

39. **Encapsulation of Lornoxicam Onto Amine Functionalized KIT-6 Nanoparticles as a Drug Delivery System for Rheumatoid Arthritis Therapy**
Chemistry Africa, 1-17, 2025 | 2025 | Cited: 5

40. **Enhancing Emission Characteristics of a Diesel Engine Powered by Biodiesel Blends with Mesoporous Silica for Better Environmental Protection and Performance**
International Journal of Environmental Research 19 (2), 57, 2025 | 2025 | Cited: 7

41. **High-Sensitive Analysis of Organic and Inorganic Components in Two Distinct Types of Crude Oil via Spectrometry and Chromatography Techniques After Ultrasonic-Assisted Extraction**
Chemistry Africa 8 (1), 285-303, 2025 | 2025 | Cited: 3

42. **The role of microbial inoculum in improving composting performance and promoting compost maturation: A review**
Green Technologies and Sustainability, 100316, 2025 | 2025 | Cited: 10

43. **Mechanistic insights into naphthalene removal from wastewater employing modified NH2-MCM-41 mesoporous materials in a batch adsorption process**
Chemical Papers, 1-16, 2025 | 2025

44. **Mathematical modeling of submerged membrane adsorption hybrid system and parameter estimation for adsorption of cesium from radioactive wastewater implementing eco-friendly ...**
Chemical Product and Process Modeling, 2025 | 2025 | Cited: 1

45. **Ionic liquids as promising solvents for separation processes in petroleum refinery: a comprehensive review**
Brazilian Journal of Chemical Engineering, 1-25, 2025 | 2025 | Cited: 1

46. **Retraction notice to" Modification of SBA-15 mesoporous silica as an active heterogeneous catalyst for the hydroisomerization and hydrocracking of n-heptane"[Heliyon 8 (2022 ...**
Heliyon 11 (14), 2025 | 2025

47. **Methane Generation Using an Anaerobic Biodigester From Waste Leachate Water**
Asia-Pacific Journal of Chemical Engineering, e70171, 2025 | 2025

48. **Bimetallic Loaded Onto SBA‐15 Mesoporous Catalysts for Improvement n‐Heptane Isomerization**
Asia-Pacific Journal of Chemical Engineering, e70105, 2025 | 2025

49. **Nanomaterials in the fermentation of bioethanol and biobutanol: Strategies to improve process efficiency**
Biomass Conversion through Nanomaterials, 309-354, 2025 | 2025 | Cited: 2

50. **Sustainable agriculture through environmental adaptation engineering for waste management**
Green Technologies and Sustainability, 100242, 2025 | 2025 | Cited: 19

51. **Investigation of toluene alkylation with hept-1-ene over fresh and modified h-beta catalysts according to apparent activation energy values**
South African Journal of Chemical Engineering, 2025 | 2025 | Cited: 3

52. **Decolorization of Azo Dye from Synthetic Wastewater using Fenton Oxidation Process**
IOP Conference Series: Earth and Environmental Science 1507 (1), 012035, 2025 | 2025 | Cited: 2

53. **Comparative Assessment of Amine‐Functionalized KIT‐5 and KIT‐6 Mesoporous Silica as Carriers for Lornoxicam Adsorption and Release**
ChemistrySelect 10 (19), e00582, 2025 | 2025 | Cited: 2

54. **Loading and Release of the Anti-Inflammatory Drug Lornoxicam Implementing Modified Mesoporous Silica KIT-5 Nanoparticles**
Arabian Journal for Science and Engineering, 1-19, 2025 | 2025 | Cited: 1

55. **Comparative Simulation of PI and Fuzzy Control for Fluid Catalytic Cracking Unit**
Iranian Journal of Chemistry and Chemical Engineering 44 (3), 846-857, 2025 | 2025 | Cited: 2

56. **Energy development and management in the Middle East: A holistic analysis**
Energy Conversion and Management 323, 119124, 2025 | 2025 | Cited: 21

57. **A novel green propolis (bee glue) nanoparticles mixed with poly (ether-sulfone) ultrafiltration membrane for wastewater Eriochrome Black T (EBT) and Congo Red (CR) dye treatment**
Journal of Environmental Chemical Engineering 13 (2), 115913, 2025 | 2025 | Cited: 18

58. **Recent developments in petroleum wastewater treatment based on advanced oxidation processes: a review**
Iranian Journal of Chemistry and Chemical Engineering 44 (4), 1089-1120, 2025 | 2025 | Cited: 10

59. **Predicting hydrogen production from formic acid dehydrogenation using smart connectionist models**
International Journal of Hydrogen Energy 109, 574-590, 2025 | 2025 | Cited: 10

60. **Green nanoparticles blending with polyacrylonitrile ultrafiltration membrane for antifouling oily wastewater treatment**
Separation and Purification Technology 353, 128256, 2025 | 2025 | Cited: 51

61. **Strategies for biodiesel production with the role of reactor technologies: A comprehensive review**
Chemical Engineering and Processing-Process Intensification 200, 109767, 2024 | 2024 | Cited: 44

62. **Insights into drug loading techniques with mesoporous silica nanoparticles: Optimization of operating conditions and assessment of drug stability**
Journal of Drug Delivery Science and Technology 96, 105698, 2024 | 2024 | Cited: 61

63. **Studying the kinetics and removal mechanism of the methylene blue dye in a continuous adsorption process using prepared mesoporous materials**
Water Practice & Technology 19 (7), 2799-2815, 2024 | 2024 | Cited: 51

64. **A review on development and modification strategies of MOFs Z-scheme heterojunction for photocatalytic wastewater treatment, water splitting, and DFT calculations**
Heliyon 10 (13), 2024 | 2024 | Cited: 78

65. **Comprehensive review of mesoporous silica nanoparticles: drug loading, release, and applications as hemostatic agents**
ChemistrySelect 9 (23), e202400450, 2024 | 2024 | Cited: 76

66. **Investigation of bentonite clay minerals as a natural adsorbents for Cs-137 real radioactive wastewater treatment**
Desalination and Water Treatment 317, 100121, 2024 | 2024 | Cited: 30

67. **Biogas plants accidents: Analyzing occurrence, severity, and associations between 1990 and 2023**
Safety Science 177, 106597, 2024 | 2024 | Cited: 21

68. **Thermoeconomic analysis of an innovative integrated system for cogeneration of liquid hydrogen and biomethane by a cryogenic-based biogas upgrading cycle and polymer ...**
Industrial & Engineering Chemistry Research 63 (16), 7227-7257, 2024 | 2024 | Cited: 16

69. **Evaluation of adsorption treatment method for removal of phenol and acetone from industrial wastewater**
Desalination and Water Treatment 317, 100091, 2024 | 2024 | Cited: 39

70. **The role of catalysts in biodiesel production as green energy applications: a review of developments and prospects**
Chemical Engineering Research and Design 204, 636-653, 2024 | 2024 | Cited: 33

71. **Green nanocatalyst for the photocatalytic degradation of organic pollutants in petroleum refinery wastewater: Synthesis, characterization, and optimization**
Journal of Molecular Structure 1304, 137688, 2024 | 2024 | Cited: 44

72. **Strategies for Biodiesel Production with the Role of Reactors Technologies: A Comprehensive Review**
Chemical Engineering and Processing-Process Intensification, 109767, 2024 | 2024

73. **The Role of Catalysts in Biodiesel Production as Green Energy Applications: A Review of Developments and Prospects**
Chemical Engineering Research and Design, 2024 | 2024

74. **Evaluation of Adsorption Treatment Method for Removal of Phenol and Acetone from Industrial Wastewater**
Desalination and Water Treatment, 100091, 2024 | 2024

75. **Removal of anionic azo dye from wastewater using Fe3O4 magnetic nanoparticles adsorbents in a batch system**
Desalination and Water Treatment 317, 100033, 2024 | 2024 | Cited: 90

76. **Separation techniques in different configurations of hybrid systems via synergetic adsorption and membrane processes for water treatment: a review**
Journal of Industrial and Engineering Chemistry 130, 91-104, 2024 | 2024 | Cited: 86

77. **Solid adsorbent material: A review on trends of post-combustion CO2 capture**
Process Safety and Environmental Protection 182, 975-988, 2024 | 2024 | Cited: 93

78. **Recent advances in photocatalytic advanced oxidation processes for organic compound degradation: A review**
Desalination and Water Treatment 318, 100384, 2024 | 2024 | Cited: 222

79. **Drug loading methods and kinetic release models using of mesoporous silica nanoparticles as a drug delivery system: A review**
South African Journal of Chemical Engineering 50 (1), 261-280, 2024 | 2024 | Cited: 147

80. **Synthesis and characterization of fullerene modified with copper nanoparticles catalyzed CH bond activation as a sustainable and green catalyst for electro synthesis of ...**
Journal of Molecular Structure 1302, 137413, 2024 | 2024 | Cited: 14

81. **Investigation of Bentonite Clay Minerals as a Natural Adsorbents for Cs-137 Real Radioactive Wastewater Treatment**
Desalination and Water Treatment, 100121, 2024 | 2024

82. **Green Nanocatalyst for the Photocatalytic Degradation of Organic Pollutants in Petroleum Refinery Wastewater: Synthesis, Characterization, and Optimization**
Journal of Molecular Structure, 137688, 2024 | 2024

83. **Removal of anionic azo dye from wastewater using Fe3O4 magnetic nanoparticles adsorbents in a batch system**
Desalination and Water Treatment, 100033, 2024 | 2024

84. **Correction: Hasan et al. Synthesizing and Characterizing a Mesoporous Silica Adsorbent for Post-Combustion CO2 Capture in a Fixed-Bed System. Catalysts 2023, 13, 1267**
Catalysts 14 (1), 72, 2024 | 2024

85. **Corrigendum to" Current trends for wastewater treatment technologies with typical configurations of photocatalytic membrane reactor hybrid systems: A review"[Chemical ...**
Chemical Engineering and Processing: Process Intensification 195, 109649, 2024 | 2024

86. **Utilizing A Millifluidic Approach And Three Variables To Reduce Asphaltene Content Of Crude Oil**
Azerbaijan Chemical Journa, Ivol 3, 29-24, 2024 | 2024 | Cited: 7

87. **A hybrid adsorption/ultrafiltration membrane process for removal of Cs-137 from radioactive wastewater using natural clay adsorbent**
Chemical Engineering Research and Design 208, 853-862, 2024 | 2024 | Cited: 12

88. **Comparative Study of Physicochemical Properties and Metal Contents in Crude Oil from Different Fields in Iraq**
University of Thi-Qar Journal of Science 11 (2), 197-205, 2024 | 2024 | Cited: 1

89. **Nanomaterials in Oil and Gas Industry**
Petroleum Chemistry 64 (8), 923-930, 2024 | 2024 | Cited: 2

90. **Synthesizing and Characterizing a Mesoporous Silica Adsorbent for Post-Combustion CO2 Capture in a Fixed-Bed System.(vol 13, 1267, 2023)**
CATALYSTS 14 (1), 2024 | 2024

91. **Green fuel innovation: enhancing biodiesel production with MCM-41 mesoporous silica catalysis**
Journal of Applied Sciences and Nanotechnology 4 (3), 1-17, 2024 | 2024 | Cited: 4

92. **Investigation of the arrangement of aluminum fins on the thermal behavior of lauric acid as a phase change material in a two-pipe heat exchanger by CFD simulation**
Case Studies in Thermal Engineering 64, 105469, 2024 | 2024 | Cited: 12

93. **Utilizing a millifluidic approach and three variables to reduce asphaltene content of crude oil**
Azerbaijan Chemical Journal, 29-42, 2024 | 2024 | Cited: 7

94. **Green fuel innovation: enhancing biodiesel production with MCM-41 mesoporous silica catalysis**
Journal of Applied Sciences and Nanotechnology 4 (3), 1-17, 2024 | 2024 | Cited: 4

95. **Photocatalytic degradation of cefotaxime pharmaceutical compounds onto a modified nanocatalyst: NS Abbood et al.**
Research on Chemical Intermediates 49 (1), 43-56, 2023 | 2023 | Cited: 77

96. **Investigation of equilibrium, isotherm, and mechanism for the efficient removal of 3-nitroaniline dye from wastewater using mesoporous material MCM-48**
PROGRESS IN COLOR, COLORANTS AND COATINGS 16 (4), 387-398, 2023 | 2023 | Cited: 38

97. **Utilization of Loaded Cobalt onto MCM-48 Mesoporous Catalyst as a Heterogeneous Reaction in a Fixed Bed Membrane Reactor to Produce Isomerization Product from n-Heptane**
Catalysts | 2023

98. **Utilization of Loaded Cobalt onto MCM-48 Mesoporous Catalyst as a Heterogeneous Reaction in a Fixed Bed Membrane Reactor to Produce Isomerization Product from n-Heptane**
Catalysts 13 (7), 1138, 2023 | 2023 | Cited: 61

99. **Evaluation of bentonite, attapulgite, and kaolinite as eco-friendly adsorbents in the treatment of real radioactive wastewater containing Cs-137**
Progress in Nuclear Energy, 104730, 2023 | 2023 | Cited: 9

100. **Decolourisation of anionic azo dye in industrial wastewater using adsorption process: Investigating operating parameters**
Environmental Processes 10 (2), 34, 2023 | 2023 | Cited: 53

101. **Strategies to improve the performance of hydrogen storage systems by liquefaction methods: a comprehensive review**
ACS omega 8 (21), 18358-18399, 2023 | 2023 | Cited: 105

102. **Smart investigation of artificial intelligence in renewable energy system technologies by natural language processing: Insightful pattern for decision-makers**
Engineering Applications of Artificial Intelligence 126, 106848, 2023 | 2023 | Cited: 20

103. **Separation Techniques in Different Configurations of Hybrid Systems via Synergetic Adsorption and Membrane Processes for Water Treatment: A Review**
Journal of Industrial and Engineering Chemistry, 2023 | 2023 | Cited: 12

104. **Synthesizing and Characterizing a Mesoporous Silica Adsorbent for Post-Combustion CO2 Capture in a Fixed-Bed System**
Catalysts 13 (9), 1267, 2023 | 2023 | Cited: 17

105. **Attapulgite as an eco-friendly adsorbent in the treatment of real radioactive wastewater**
Water Practice and Technology 18 (9), 2068-2079, 2023 | 2023

106. **Adsorption of aniline from aqueous solutions onto a nanoporous material adsorbent: isotherms, kinetics, and mass transfer mechanisms**
Water Practice & Technology 18 (9), 2136-2150, 2023 | 2023 | Cited: 71

107. **Segregation of Metal Complexes from Real Heavy Crude Oil in the Existence of Prepared Deep Eutectic Solvents**
Chemistry Africa 6 (3), 1595-1603, 2023 | 2023 | Cited: 8

108. **Evaluation of different methods to ameliorate the performance of PV/T systems using hybrid nanofluids and PCM in a spiral tube with different cross sections**
Results in Engineering 20, 101514, 2023 | 2023 | Cited: 46

109. **Adsorption of copper from water using TiO2-modified activated carbon derived from orange peels and date seeds: Response surface methodology optimization**
Heliyon, 2023 | 2023

110. **Attapulgite as an eco-friendly adsorbent in the treatment of real radioactive wastewater**
Water Practice & Technology 18 (9), 2068-2079, 2023 | 2023 | Cited: 16

111. **Olive stone as an eco-friendly bio-adsorbent for elimination of methylene blue dye from industrial wastewater**
Scientific Reports 13 (1), 21063, 2023 | 2023 | Cited: 90

112. **Adsorption of copper from water using TiO2-modified activated carbon derived from orange peels and date seeds: Response surface methodology optimization**
Heliyon 9 (11), 2023 | 2023 | Cited: 32

113. **Solid Adsorbent Material: A Review on Trends of Post-Combustion CO2 Capture**
Process Safety and Environmental Protection, 2023 | 2023 | Cited: 1

114. **Adsorption of anionic azo dye from aqeous wastewater using zeolite NaX as an efficient adsorbent**
Desalin. Water Treat. 306, 245-252, 2023 | 2023 | Cited: 10

115. **Treatment of actual radioactive wastewater containing Cs-137 using kaolinite clay minerals as eco-friendly adsorbents**
DESALINATION AND WATER TREATMENT 307, 162-170, 2023 | 2023 | Cited: 1

116. **Current trends for wastewater treatment technologies with typical configurations of photocatalytic membrane reactor hybrid systems: A review**
Chemical Engineering and Processing-Process Intensification 192, 109503, 2023 | 2023 | Cited: 104

117. **Photocatalytic degradation of cefotaxime pharmaceutical compounds onto a modified nanocatalyst.**
Research on Chemical Intermediates 49 (1), 2023 | 2023 | Cited: 73

118. **Fisher–Tropsch synthesis for conversion of methane into liquid hydrocarbons through gas-to-liquids (GTL) process: a review. Methane 2 (1), 24–43 (2023)**
2023 | Cited: 4

119. **Effective adsorption of 2-nitroaniline from wastewater applying mesoporous material MCM-48: equilibrium, isotherm, and mechanism investigation**
Desalination and Water Treatment 300, 120-129, 2023 | 2023 | Cited: 70

120. **Treatment of actual radioactive wastewater containing Cs-137 using kaolinite clay minerals as eco-friendly adsorbents**
Desalination and Water Treatment 307, 162-170, 2023 | 2023 | Cited: 14

121. **Adsorption of anionic azo dye from aqueous wastewater using zeolite NaX as an efficient adsorbents**
Desalination and Water Treatment 306, 245-252, 2023 | 2023 | Cited: 70

122. **Evaluation of bentonite, attapulgite, and kaolinite as eco-friendly adsorbents in the treatment of real radioactive wastewater containing Cs-137**
Progress in Nuclear Energy 162, 104730, 2023 | 2023 | Cited: 41

123. **Photocatalytic degradation of cefotaxime pharmaceutical compounds onto a modified nanocatalyst**
Research on Chemical Intermediates 49 (1), 43-56, 2023 | 2023 | Cited: 52

124. **Applying MCM-48 mesoporous material, equilibrium, isotherm, and mechanism for the effective adsorption of 4-nitroaniline from wastewater**
Scientific Reports 13 (1), 9837, 2023 | 2023 | Cited: 101

125. **Real heavy crude oil desulfurization onto nanoporous activated carbon implementing batch adsorption process: Equilibrium, kinetics, and thermodynamic studies**
Chemistry Africa 6 (2), 747-756, 2023 | 2023 | Cited: 76

126. **Recovery of fuel from real waste oily sludge via a new eco-friendly surfactant material used in a digital baffle batch extraction unit**
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127. **Investigation of equilibrium, isotherm, and mechanism for the efficient removal of 3-nitroaniline dye from wastewater using mesoporous material MCM-48**
Progress in Color, Colorants and Coatings 16 (4), 387-398, 2023 | 2023 | Cited: 44

128. **Current trends for Wastewater Treatment Technologies with Typical Configurations of Photocatalytic Membrane Reactor Hybrid Systems: A Review**
Chemical Engineering and Processing-Process Intensification, 109503, 2023 | 2023 | Cited: 14

129. **Strategies To Improve the Performance of Hydrogen Storage Systems by Liquefaction Methods: A Comprehensive Review**
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130. **Fisher–Tropsch Synthesis for Conversion of Methane into Liquid Hydrocarbons through Gas-to-Liquids (GTL) Process: A Review**
Methane 2 (1), 24-43, 2023 | 2023 | Cited: 77

131. **Desulfurization of real diesel fuel onto mesoporous silica MCM-41 implementing batch adsorption process: Equilibrium, kinetics, and thermodynamic studies**
Engineering and Technology Journal 40 (09), 1144-1157, 2022 | 2022 | Cited: 11

132. **Performance evaluation of integral process for treatment of oilfield wastewater**
AIP Conference Proceedings, 2022 | 2022 | Cited: 20

133. **Experimental study and evaluation of heavy crude oil desulfurization process using combination of Alkalines Solutions and Catalytic Oxidative**
Iraqi Journal of Oil & Gas Research 2 (1), 2022 | 2022 | Cited: 4

134. **Desulfurization techniques process and future challenges for commercial of crude oil products**
AIP Conference Proceedings 2443 (1), 2022 | 2022 | Cited: 8

135. **Imidazolium-based ionic liquids for extraction of sulfur compounds from real heavy crude oil**
Chemistry Africa 5 (5), 1715-1722, 2022 | 2022 | Cited: 17

136. **The role of extractive and oxidative desulphurization techniques of fuel oils using ionic liquids: An overview**
AIP Conference Proceedings 2443 (1), 2022 | 2022 | Cited: 4

137. **Curcumin loaded onto magnetic mesoporous material MCM-41 for controlled and released in drug delivery system**
Engineering and Technology Journal 40 (3), 472-483, 2022 | 2022 | Cited: 4

138. **Decontamination of actual radioactive wastewater containing 137Cs using bentonite as a natural adsorbent: equilibrium, kinetics, and thermodynamic studies**
Scientific Reports 12 (1), 13837, 2022 | 2022 | Cited: 82

139. **Choline chloride-based deep eutectic solvents for ultrasonic-assisted oxidative desulfurization of actual heavy crude oil**
Chemical Engineering Research and Design 182, 659-666, 2022 | 2022 | Cited: 60

140. **Removal of sulfur compounds from real diesel fuel employing the encapsulated mesoporous material adsorbent Co/MCM-41 in a fixed-bed column**
Microporous and Mesoporous Materials 341, 112020, 2022 | 2022 | Cited: 90

141. **Implementing eggplant peels as an efficient bio-adsorbent for treatment of oily domestic wastewater**
Desalin. Water Treat 245, 226-237, 2022 | 2022 | Cited: 51

142. **Modification of SBA-15 mesoporous silica as an active heterogeneous catalyst for the hydroisomerization and hydrocracking of n-heptane**
Heliyon 8 (6), 2022 | 2022 | Cited: 87

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