



Uday Muhsin Nayef

عدي محسن نايف واجد الربيعي

Professor

ACADEMIC TITLES

2016-06-09

Professor

GRADUATE SUPERVISION

Fabrication and Characterization of Porous Silicon Photovoltaic Devices

Ayoub H. Jaafar (2012)

Preparation and Characteristics Study of Photovoltaic Properties ZnO/Si Heterojunction

Mohammed J. Jasim (2012)

Preparation and Characterization Study of Sn nanoparticles

Ali J. Hadi (2013)

Synthesis and Characteristics of ZnO/Porous Silicon Heterojunction

Mohammed W. Muayad (2013)

Some Properties of TiO₂ Nanoparticles Silicon on Porous Silicon for Optoelectronics Applications

Zahraa J. Abdulkareem (2014)

Physical Properties of ZnS Films Chemically Deposited on Nanostructure Silicon for Photodetectors

Haider A. Khalaf (2014)

ADMINISTRATIVE POSITIONS

2016-05-11 - 2018-01-21

Assistant Dean for Administrative Affairs

2020-02-24 - Present

Assistant Dean for Administrative Affairs

PUBLICATIONS (183)

- Enhancement of spectral responsivity of Ag: au nanoparticles by using seed-growth method**
Journal of Optics 55 (1), 923-929, 2026 | 2026 | Cited: 1
- Laser ablation synthesis Au@ NiO nanoparticles: a new frontier in broad-spectrum antibacterial nanomaterials**
World Journal of Microbiology and Biotechnology 42 (5), 226, 2026 | 2026 | Cited: 4
- Sustainable synthesis and photocatalytic performance of Au@ CuO core-shell nanoparticles for efficient degradation of methylene blue in water**
Nanotechnology for Environmental Engineering 11 (2), 49, 2026 | 2026 | Cited: 7
- Low-temperature multi-layer gas sensors with high response based on V₂O₅/Pd, WO₃/Pd, and V₂O₅-WO₃/Pd nanoparticles deposited on porous silicon by ...**
The European Physical Journal Plus 141 (7), 779, 2026 | 2026
- Laser-Engineered Ag@ Au Core-Shell Nanostructures: Impact of Shell Thickness on Photodetector Performance**
Plasmonics 21 (2), 1963-1985, 2026 | 2026 | Cited: 12
- Effect of 1064-nm Laser Ablation on the Synthesis of Barium Titanate Nanoparticles Deposited on Porous Silicon for Photonic Detector Applications**
JOM, 1-18, 2026 | 2026 | Cited: 6

CONTACT

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EDUCATION

Doctorate (2010-07-05)

Laser and Optoelectronics

University of Technology

RESEARCH METRICS

h-index (Scopus)	42
h-index (GS)	43
Citations (Scopus)	3245
Citations (GS)	3907
Documents (Scopus)	125
Documents (GS)	167



7. **Synthesis of NiO, CdO–NiO, and SnO₂–NiO nanowires by electrochemical deposition in the anodic aluminum oxide template**
Journal of Materials Science: Materials in Electronics 37 (6), 420, 2026 | 2026 | Cited: 7
8. **Laser-Ablated Au@ Ag@ Au Core-Double Shell Nanoparticles to Fight Multidrug-Resistant Bacteria**
Journal of Applied Sciences and Nanotechnology 6 (2), 49-71, 2026 | 2026
9. **Co-thermally evaporated Ag-Au thin films as composition-tuned back electrodes for CsEuCl₃-based lead-free perovskite solar cells**
Applied Nanoscience 16 (3), 40, 2026 | 2026 | Cited: 1
10. **Impact of Carbon Quantum Dots Incorporation in Electron Transport Layer on the Performance of CsPbBr₃-Based Perovskite Solar Cells**
International Journal of Modern Physics B, 2026 | 2026 | Cited: 1
11. **Tunable Ag@Au Core–Shell Nanoparticles Synthesized by Pulsed Laser Ablation for Dual H₂S and NO₂ Gas Sensing on Porous Silicon**
International Journal of Modern Physics B, 2026 | 2026 | Cited: 7
12. **Gold nanoparticles immobilized subtilisin as a novel nanoplatform for breast carcinoma control: Apoptosis induction and NF-κB suppression**
Inorganic Chemistry Communications 186, 116307, 2026 | 2026
13. **Influence of Solvent Viscosity on TiO₂ Nanoparticle Characteristics and TiO₂/n-Si Photodetector Performance via Pulsed Laser Ablation in Liquids**
Silicon, 1-16, 2026 | 2026 | Cited: 14
14. **Structural, optical, and electronic characterization of Fe₃O₄@ ZnO core–shell nanostructures synthesized by laser ablation**
Journal of Materials Science: Materials in Electronics 37 (15), 1164, 2026 | 2026 | Cited: 2
15. **Energy-tunable 1064 nm pulsed laser ablation in liquid synthesis of Al₂O₃ nanoparticles for interface-engineered high broadband Si photodetectors**
Journal of Materials Science: Materials in Electronics 37 (19), 1488, 2026 | 2026
16. **Enhancing the spectral responsivity of Au@ CuO (core@ shell) nanoparticles via laser ablation deposited on porous silicon**
Plasmonics, 1-14, 2025 | 2025 | Cited: 4
17. **Synthesis of NiO nanoparticles using laser ablation in liquid for photodetector application**
Plasmonics 20 (6), 3127-3134, 2025 | 2025 | Cited: 5
18. **Pulsed Nd: YAG laser-assisted synthesis of aluminum oxide nanoparticles with clove extract: Evaluating their antibacterial activity against mutant strain of streptococcus mutans**
Plasmonics 20 (6), 4091-4101, 2025 | 2025 | Cited: 3
19. **Enhancing of spectral responsivity of gold nanoparticles via laser ablation deposited on porous silicon**
Plasmonics, 1-8, 2025 | 2025 | Cited: 5
20. **Laser ablated Au@ Ag@ Au core double shelled as inorganic nanocomposite for control growth of liver cancer cells (Hep-G2): 2D tissue culture model and insilico assessment**
Inorganic Chemistry Communications 173, 113841, 2025 | 2025 | Cited: 6
21. **Synthesis of Au@ Fe₃O₄ (Core@ Shell) Nanoparticles via Laser Ablation Deposited on Porous Silicon for Photodetector Applications**
Plasmonics, 1-13, 2025 | 2025 | Cited: 8
22. **Overcoming multidrug-resistant bacteria using novel laser ablated Au@ Ag@ Au double core–shell nanoparticles**
Plasmonics 20 (5), 2829-2845, 2025 | 2025 | Cited: 6
23. **Synthesis of Fe₃O₄ NPs on Porous Silicon for Photoluminescence-Based Humidity Sensor**
Plasmonics, 1-14, 2025 | 2025 | Cited: 18
24. **Enhancing spectral responsivity of zinc oxide nanoparticles via laser ablation on porous silicon**
Plasmonics 20 (4), 2197-2207, 2025 | 2025 | Cited: 9

25. **Laser-assisted synthesis of Mg-MgO-Mg₁₇Al₁₂ nanoparticles on porous silicon for enhanced photodetector performance**
Silicon 17 (12), 2871-2884, 2025 | 2025 | Cited: 24
26. **Synthesis and characterization of double core-shell Au@ Ag@ Au nanoparticles by pulsed laser ablation in liquid and analysis of their antibacterial properties**
Plasmonics 20 (4), 2209-2223, 2025 | 2025 | Cited: 13
27. **Synthesis of copper oxide nanoparticles via laser ablation in liquid for enhancing spectral responsivity**
Plasmonics 20 (5), 2869-2879, 2025 | 2025 | Cited: 17
28. **Synthesis of CuO@ ZnO Nanoparticle core-shell formed via laser ablation in liquid for photocatalytic applications**
Plasmonics 20 (5), 2595-2605, 2025 | 2025 | Cited: 18
29. **Photocatalytic Degradation of Indigo Carmine by Zinc Oxide Nanoparticles: Effect of Experimental Parameters and Kinetic Degradation**
Plasmonics, 1-17, 2025 | 2025 | Cited: 26
30. **Synthesis of Al₂O₃ Nanoparticles via Laser Ablation for Photodetectors Application**
Plasmonics, 1-11, 2025 | 2025 | Cited: 27
31. **Synthesis of SnO₂ nanoparticles via laser ablation for high-performance photodetectors**
Plasmonics, 1-12, 2025 | 2025 | Cited: 34
32. **Synthesis of zinc oxide nanoparticles via laser ablation on porous silicon for gas sensors application**
Journal of Optics, 1-15, 2025 | 2025 | Cited: 31
33. **The Advancing of Zinc Oxide and Gold Nanoparticles as a Promising Therapeutic Approach for Future Biomedical Applications**
Plasmonics, 1-22, 2025 | 2025 | Cited: 12
34. **Nano-gold via laser ablation in liquid at different laser energies on porous silicon for photodetector application**
Journal of Optics | 2025 | Cited: 11
35. **Synthesis of Au@CdO nanoparticles using laser ablation deposited on porous silicon for photodetector applications**
Optics & Laser Technology | 2025 | Cited: 20
36. **Cubic-BaTiO₃ nanoparticles via laser ablation are an efficient photocatalyst for the degradation of methylene blue**
Journal of Materials Science: Materials in Electronics 36 (19), 1159, 2025 | 2025 | Cited: 2
37. **Synthesis, characterization, and evaluation of antibacterial and antioxidant properties of (Ag-NiO) nanocomposite using alternating magnetic field technique**
The European Physical Journal Plus 140 (9), 1-10, 2025 | 2025
38. **Synthesis of BaTiO₃ Nanoparticles via Laser Ablation in Liquid for Photodetector Application**
Plasmonics, 1-8, 2025 | 2025 | Cited: 4
39. **Antibacterial and Anticancer Properties of Zinc Oxide Nanoparticles: A Review of Current Advances and Future Directions**
Journal of Applied Sciences and Nanotechnology, 60-87, 2025 | 2025 | Cited: 5
40. **Eco-Conscious Approach to Synthesizing Aluminum Oxides Using Nonthermal Plasma Technology**
Nano LIFE 15 (05), 2450026, 2025 | 2025 | Cited: 2
41. **Enhanced energy storage via one-step preparation of CuO-nanosalt**
The European Physical Journal Plus 140 (10), 995, 2025 | 2025 | Cited: 14
42. **Synthesis of Mg-Al-Zn Alloy nanoparticles via laser ablation and deposited on porous silicon for enhancement in the spectral responsivity**
Plasmonics 20 (6), 3843-3852, 2025 | 2025 | Cited: 3
43. **Synthesis, Structural Evolution and Antimicrobial Properties of Thermally Treated Zinc-Chromium Layered Double Hydroxide-Derived Nanostructured Oxides toward Wastewater Treatment**
Nano LIFE, 2550012, 2025 | 2025 | Cited: 7

44. **Effect of cadmium doping on gas sensitivity for CdxNi1– xFe2O4 thin films prepared via pulsed laser deposition on silicon substrate**
Optical and Quantum Electronics 57 (10), 1-19, 2025 | 2025 | Cited: 11
45. **Synthesis of Au@ NiO (Core@ Shell) nanoparticles via laser ablation on silicon nanostructures for photodetector application**
Plasmonics 20 (2), 1055-1061, 2025 | 2025 | Cited: 4
46. **Synergistic Effect of Bimetallic Nanoparticles and Evaluation as an Antibacterial Agent Against Streptococcus mutans and Klebsiella pneumonia**
Plasmonics, 1-10, 2025 | 2025 | Cited: 5
47. **Effect of laser energy on formation of gold@ aluminum oxide (core@ shell) nanoparticles for enhancement spectral responsivity**
Plasmonics, 1-9, 2025 | 2025 | Cited: 6
48. **Au@hydroxyapatite nanocomposite as a novel apoptosis Inducer and NF-KB translocation Inhibitor in prostate cancer cell line**
Inorganic Chemistry Communications | 2024 | Cited: 7
49. **Enhanced photodetection performance of vanadium pentoxide nanostructures deposited on porous silicon substrate via pulsed laser deposition**
Optical and Quantum Electronics 56 (3), 321, 2024 | 2024 | Cited: 15
50. **Preparation and characterization of Pd nanoparticles via second harmonic Nd: YAG laser ablation and deposited on porous silicon for photo-conversion application**
Journal of Optics 53 (1), 1-9, 2024 | 2024 | Cited: 8
51. **Improvement of Spectral Responsivity of Gold Nanoparticles via Laser Ablation at Different Laser Energies Deposited on Porous Silicon**
Plasmonics 19 (1), 263-271, 2024 | 2024 | Cited: 2
52. **Organ-specific renal tissue damage manifested by single-walled carbon-nanotubes and single-walled carbon-nanotubes-silver-titania nanocomposite: Cellular toxicity at high doses**
Journal of Trace Elements in Medicine and Biology 86, 127569, 2024 | 2024
53. **High-efficiency photodetectors based on zinc oxide nanostructures on porous silicon grown by pulsed laser deposition**
Plasmonics 19 (2), 577-593, 2024 | 2024 | Cited: 34
54. **Potential pharmaceutical applications and molecular docking study for green fabricated ZnO nanoparticles mediated Raphanus sativus: In vitro and in vivo study**
Nanotechnology Reviews 13 (1), 20240113, 2024 | 2024 | Cited: 26
55. **Enhancing photodetection performance through laser fluence control: SnO2 nanostructured deposited on porous silicon**
Optics & Laser Technology 179, 111338, 2024 | 2024 | Cited: 15
56. **Synthesis of vanadium pentoxide nanoparticles via laser ablation for biomedical applications**
International Journal of Modern Physics B 38 (18), 2450230, 2024 | 2024 | Cited: 15
57. **Synthesis of Au:MgO nanoparticles via laser ablation in liquid for H2S and NO2 gas sensor applications**
Journal of Optics 53 (3), 1659-1666, 2024 | 2024 | Cited: 14
58. **Synthesis and characterization of core–shell Ag: Au nanoparticles via seed growth for gas sensor applications**
Plasmonics 19 (2), 875-883, 2024 | 2024 | Cited: 10
59. **Influence of laser energy on CuO@ ZnO nanoparticles for enhancing spectral responsivity**
Optical and Quantum Electronics 56 (11), 1796, 2024 | 2024 | Cited: 9
60. **Photodetector application of CuO nanoparticles on porous silicon fabricated by laser ablation in liquid at diverse laser energies**
Journal of Physics: Conference Series 2857 (1), 012057, 2024 | 2024 | Cited: 8
61. **Photocatalysis application for palladium nanoparticles synthesized by laser ablation in liquid**
Plasmonics 19 (2), 611-619, 2024 | 2024 | Cited: 10

62. **External magnetic field effect on synthesis palladium nanoparticles via laser ablation deposited on porous silicon as a gas sensor application**
Journal of Optics 53 (4), 2870-2876, 2024 | 2024 | Cited: 7
63. **Improvement Spectral Responsivity of TiO₂ Nanoparticles via Pulsed Laser Deposition Deposited on Silicon Nanostructures**
Silicon 16 (10), 4301-4316, 2024 | 2024 | Cited: 6
64. **Prepared copper oxide nanoparticle colloidal solution by different laser ablation energy in liquid for enhanced organic dye degradation efficiency**
Journal of Optics, 1-9, 2024 | 2024 | Cited: 7
65. **Synthesis of silver@ gold (core@ shell) nanoparticles deposited on porous silicon for enhanced spectral responsivity**
Plasmonics 19 (2), 835-844, 2024 | 2024 | Cited: 5
66. **Study effect of magnetic field on Au–TiO₂ nanoparticles ablated on silicon nanostructures for gas sensors**
Journal of Optics 53 (2), 747-755, 2024 | 2024 | Cited: 3
67. **Study of Spectral Responsivity of Au@In₂O₃ Nanoparticles via Laser Ablation Deposited on Porous Silicon**
Plasmonics 19 (2), 933-941, 2024 | 2024 | Cited: 3
68. **Experimental realization of Au:TiO₂ via magnetic field-assisted laser ablated on porous silicon for H₂S and NO₂ gas sensors applications**
Journal of Optics 53 (5), 4096-4106, 2024 | 2024 | Cited: 2
69. **Diverse energy laser ablation in liquid for indium oxide nanoparticles on porous silicon: enhancing photodetector performance**
Journal of Physics: Conference Series 2857 (1), 012058, 2024 | 2024 | Cited: 2
70. **Preparation And Characteristics Of Mg-Al_{0.09}-Zn_{0.01} Nanoparticles Deposited On Silicon Nanostructure For Photo-Conversion Application**
Journal of Optics | 2024
71. **Enhancing Gas Sensing Performance by Laser Ablation and Characterization of Ag@ Au Bimetallic Nanoparticles**
Journal of Applied Sciences and Nanotechnology 4 (1), 9-18, 2024 | 2024 | Cited: 13
72. **Manufacturing of CuO@ ZnO nanoparticles core-shell for enhancing electrical properties and spectral responsivity of photodetectors**
Journal of Applied Sciences and Nanotechnology 4 (4), 62-76, 2024 | 2024 | Cited: 2
73. **Structural, Morphological, Photoluminescence, and sensitivity of Au:TiO₂ nanoparticles via laser ablation on porous silicon**
The Journal of Optics | 2023
74. **Au/ZnO Nanocomposites Prepared by Laser Ablation for Enhancement of Antibacterial Activity and Cytotoxic Properties against Cancer Cells**
Metals 13 (4), 735, 2023 | 2023 | Cited: 69
75. **Laser-ablated zinc oxide nanoparticles and evaluation of their antibacterial and anticancer activity against an ovarian cancer cell line: in vitro study**
Plasmonics, 1-11, 2023 | 2023 | Cited: 52
76. **Structural, Morphological, Photoluminescence, and sensitivity of Au:TiO₂ nanoparticles via laser ablation on porous silicon**
Journal of Optics 52 (4), 1621-1627, 2023 | 2023 | Cited: 11
77. **Titanium dioxide nanoparticles prepared via laser ablation: evaluation of their antibacterial and anticancer activity**
Surface Review and Letters (SRL) 30 (10), 1-10, 2023 | 2023 | Cited: 21
78. **Synthesis of Pd NPs via laser ablation in liquid assisted with magnetic field on silicon nanostructure for gas sensor**
Surface Review and Letters (SRL) 30 (10), 1-8, 2023 | 2023 | Cited: 4

79. **Studying the Photocatalytic Characteristics of Pd Nanoparticles Created by Second Harmonic Laser Ablation**
Plasmonics, 1-7, 2023 | 2023 | Cited: 7
80. **Au/ZnO nanocomposites prepared by laser ablation for enhancement of antibacterial activity and cytotoxic properties against cancer cells.** *Metals* 2023 (13): 735
2023 | Cited: 2
81. **Improved spectral responsivity of porous silicon after the deposition of palladium nanoparticles via laser ablation at different laser energies**
Modern Physics Letters B, 2350096, 2023 | 2023 | Cited: 5
82. **Tin dioxide nanoparticles synthesized via laser ablation in various liquids medium**
Journal of Optics 52 (1), 441-448, 2023 | 2023 | Cited: 42
83. **Laser-Ablated Tin Dioxide Nanoparticle Synthesis for Enhanced Biomedical Applications**
Plasmonics, 1-11, 2023 | 2023 | Cited: 17
84. **Study Effect of Magnetic Field on Au-TiO₂ Core–Shell Nanoparticles via Laser Ablation Deposited on Porous Silicon for Photodetector**
Plasmonics 18 (2), 595-605, 2023 | 2023 | Cited: 54
85. **Influence Study of Etching Time for Porous Silicon on Morphological, Optical, Electrical and Spectral Responsivity Properties**
Al-Mustansiriyah Journal of Science 34 (2), 113-120, 2023 | 2023 | Cited: 3
86. **High-performance photodetector of Au-MgO/PS nanostructure manufactured via pulsed laser ablation technique**
Optical and Quantum Electronics | 2022 | Cited: 54
87. **Optical-electrical characteristics of Al/Gd₂O₃/(CZ-pSi)/Al diodes under gamma ray irradiation**
Radiation Effects and Defects in Solids | 2022
88. **Preparation and Characterization of Porous Silicon for Photodetector Applications**
Journal of Applied Sciences and Nanotechnology 2 (2), 64-69, 2022 | 2022 | Cited: 15
89. **Biosynthesis of copper oxide nanoparticles mediated Annona muricata as cytotoxic and apoptosis inducer factor in breast cancer cell lines**
Scientific Reports 12 (1), 16165, 2022 | 2022 | Cited: 204
90. **Inhibition of Staphylococcus aureus α -Hemolysin Production Using Nanocurcumin Capped Au@ZnO Nanocomposite**
Bioinorganic Chemistry and Applications | 2022 | Cited: 111
91. **Characterization of NO₂ gas sensing for ZnO nanostructure grown hydrothermally on porous silicon**
Optik 249, 168300, 2022 | 2022 | Cited: 64
92. **Synthesis of Au: TiO₂ Nanoparticles via Laser Ablation in Liquid Deposited on Porous-Si for Improved Spectral Responsivity**
Journal of Applied Sciences and Nanotechnology 2 (3), 2022 | 2022 | Cited: 4
93. **Synthesis and characterization of Au: CdO nanoparticles using laser ablation in liquid as gases sensors**
Optics & Laser Technology | 2022 | Cited: 36
94. **Synthesis of Au-Cd ablated on porous silicon for photodetector applications**
Materials Technology 37 (13), 2711-2717, 2022 | 2022 | Cited: 4
95. **Optical-electrical characteristics of Al/Gd₂O₃/(CZ-pSi)/Al diodes under gamma ray irradiation**
Radiation Effects and Defects in Solids 177 (7-8), 783-799, 2022 | 2022
96. **Research Article Inhibition of Staphylococcus aureus α -Hemolysin Production Using Nanocurcumin Capped Au@ ZnO Nanocomposite**
2022
97. **Synthesis of Porous Silicon by Electrochemical Etching for Gas Sensor Application**
Engineering and Technology Journal 40 (04), 555-562, 2022 | 2022 | Cited: 3
98. **The spectral responsivity improvement of Au@TiO₂ via magnetic-field assisted laser ablation**
The Journal of Optics | 2022 | Cited: 2

99. **Synthesis of Au/ZnO nanocomposite and Au:ZnO core:shell via laser ablation for of photo-catalytic applications**
Materials Technology | 2022 | Cited: 15
100. **Preparation and characterization of Pd nanoparticles via second harmonic Nd:YAG laser ablation and deposited on porous silicon for photo-conversion application**
The Journal of Optics | 2022
101. **Synthesis and characterization of Au:ZnO (core:shell) nanoparticles via laser ablation**
Optik - International Journal for Light and Electron Optics | 2021 | Cited: 123
102. **Synthesis of C:Se nanoparticles via laser ablated with magnetic field on porous silicon for gas sensor applications**
Optik | 2021 | Cited: 47
103. **Nano-ZnO decorated on gold nanoparticles as a core-shell via pulse laser ablation in liquid**
Optik 248, 168164, 2021 | 2021 | Cited: 14
104. **Preparation and characterization of colloidal Au-ZnO Nanocomposite via laser ablation in deionized water and study their antioxidant activity**
Journal of Physics: Conference Series 1795 (1), 012057, 2021 | 2021 | Cited: 11
105. **Synthesis of Ag/Au (core/shell) nanoparticles by laser ablation in liquid and study of their toxicity on blood human components**
Journal of Physics: Conference Series 1795 (1), 012013, 2021 | 2021 | Cited: 75
106. **Laser assisted hydrothermal synthesis of magnetic ferrite nanoparticles for biomedical applications**
Journal of Physics: Conference Series 1795 (1), 012030, 2021 | 2021 | Cited: 49
107. **Preparation and characterization of ZnO nanoparticles via laser ablation for sensing NO₂ gas**
Optik 246, 167762, 2021 | 2021 | Cited: 53
108. **Improvement of spectral responsivity of ZnO nanoparticles deposited on porous silicon via laser ablation in liquid**
optik 244, 167530, 2021 | 2021 | Cited: 61
109. **Synthesis of C: Se nanoparticles ablated on porous silicon for sensing NO₂ and NH₃ gases**
Optik 241, 167013, 2021 | 2021 | Cited: 54
110. **Study of optical and morphological properties for Au-ZnO nanocomposite prepared by Laser ablation in liquid**
Journal of Physics: Conference Series 1795 (1), 012041, 2021 | 2021 | Cited: 87
111. **Improvement of absorption light of laser texturing on silicon surface for optoelectronic application**
Optik 237, 166755, 2021 | 2021 | Cited: 61
112. **Synthesis of ZnO nanostructures by hydrothermal method deposited on porous silicon for photo-conversion application**
Optik 247, 167903, 2021 | 2021 | Cited: 80
113. **Fe₃O₄ Nanoparticles Capped with PEG Induce Apoptosis in Breast Cancer AMJ13 Cells Via Mitochondrial Damage and Reduction of NF-KB Translocation**
Journal of Inorganic and Organometallic Polymers and Materials | 2021
114. **Improvement of responsivity of C:Se nanoparticles ablated on porous silicon**
Optik | 2021 | Cited: 46
115. **Preparation and characterization of C:Se nano-rods ablated on porous silicon**
Optik | 2021 | Cited: 46
116. **Synthesis of C:Se (core:shell) nanoparticles via laser ablation on porous silicon for photodetector application**
Optik | 2021 | Cited: 49
117. **Synthesis of C:Se nanoparticles ablated on porous silicon for sensing NO₂ and NH₃ gases**
Optik | 2021
118. **Improved sensing performance of porous silicon photodetector with CuO nanoparticles**
Chemical Papers 75, 6257-6264, 2021 | 2021 | Cited: 21

119. **Nano-curcumin capped Au/ZnO nanocomposite: A promising approach to protect from staphylococcus aureus infection through inhibits production of α -Hemolysin**
2021 | Cited: 5
120. **Characterization of Silver Nanoparticles on Porous silicon by Laser ablation in Liquid**
IOP Conference Series: Materials Science and Engineering 1126 (1), 012006, 2021 | 2021 | Cited: 1
121. **Bi_2O_3 nanoparticles ablated on porous silicon for sensing NO_2 gas**
Optik | 2020
122. **Nanoparticles Capped with PEG Induce Apoptosis in Breast Cancer AMJ13 Cells Via Mitochondrial Damage and Reduction of NF-KB Translocation**
2020 | Cited: 1
123. **Enhancement the electrical properties of porous silicon for photo-detectors applications by depositing Bi_2O_3 nanoparticles**
Optik 207, 163847, 2020 | 2020 | Cited: 45
124. **Preparation of chemical vapor sensor by reduction graphene oxide doped with nanoparticles of gold on porous silicon using photoluminescence**
Optik 206, 163576, 2020 | 2020 | Cited: 15
125. **Synthesis of Ag_2O films by pulsed laser deposited on porous silicon as gas sensor application**
Optik | 2020
126. **Enhancement of photodetectors devices for silicon nanostructure from study effect of etching time by photoelectrochemical etching technique**
Optik 206, 164325, 2020 | 2020 | Cited: 59
127. **Bi_2O_3 nanoparticles ablated on porous silicon for sensing NO_2 gas**
Optik 208, 164146, 2020 | 2020 | Cited: 49
128. **Fe_3O_4 Nanoparticles Capped with PEG Induce Apoptosis in Breast Cancer AMJ13 Cells Via Mitochondrial Damage and Reduction of NF-KB Translocation**
Journal of Inorganic and Organometallic Polymers and Materials, <https://doi.org/10.1007/s12034-020-02400-0>, 2020 | 2020 | Cited: 105
129. **Synthesis of Ag_2O films by pulsed laser deposited on porous silicon as gas sensor application**
Optik 218, 164971, 2020 | 2020 | Cited: 52
130. **MgO nanoparticles synthesis via laser ablation stationed on porous silicon for photoconversion application**
Optik 212, 164793, 2020 | 2020 | Cited: 50
131. **Enhancement the Electrical Properties of Porous Silicon for Photo-detectors Applications by depositing Bi_2O_3 nanoparticles**
Optik | 2020
132. **POLYETHYLENE GLYCOL-FUNCTIONALIZED MAGNETIC (Fe_3O_4) NANOPARTICLES: A GOOD METHOD FOR A SUCCESSFUL ANTIBACTERIAL...**
Surface Review and Letters 26 (10), 1950079, 2019 | 2019 | Cited: 80
133. **Study of changing the intensity of photoluminescence spectra as a humidity sensor for graphene on porous silicon**
Optik 193, 163015, 2019 | 2019 | Cited: 14
134. **Synthesis of Bi_2O_3 nanoparticles by laser ablation on porous silicon for photoconversion application**
Optik 193, 163013, 2019 | 2019 | Cited: 50
135. **Polyethylene Glycol-Functionalized Magnetic (Fe_3O_4) Nanoparticles: A Novel DNA-Mediated Antibacterial Agent**
Nano Biomedicine and Engineering 11 (1), 18-27, 2019 | 2019 | Cited: 95
136. **Preparation and characterization Co_3O_4 nanoparticles on porous silicon for humidity sensor by photoluminescence**
Optik | 2019
137. **Supermagnetic Fe_3O_4 -PEG nanoparticles combined with NIR laser and alternating magnetic field as potent anti-cancer agent against human ovarian cancer cells**
Materials Research Express | 2019

138. **Synthesis of Bi₂O₃ nanoparticles by laser ablation on porous silicon for photoconversion application**
Optik | 2019
139. **Polyethylene glycol-functionalized magnetic (Fe₃O₄) nanoparticles: A good method for a successful antibacterial therapeutic agent via damage DNA molecule**
Surface Review and Letters | 2019
140. **Supermagnetic Fe₃O₄-PEG nanoparticles combined with NIR laser and alternating magnetic field as potent anti-cancer agent against human ovarian cancer cells**
Materials Research Express 6 (11), 115412, 2019 | 2019 | Cited: 82
141. **Synthesis of graphene on porous silicon for vapor organic sensor by using photoluminescence**
Optik 180, 61-70, 2019 | 2019 | Cited: 49
142. **Preparation and characterization Co₃O₄ nanoparticles on porous silicon for humidity sensor by photoluminescence**
Optik 178, 379-383, 2019 | 2019 | Cited: 48
143. **Polyethylene glycol-functionalized magnetic (Fe₃O₄) nanoparticles: A novel DNA-mediated antibacterial agent**
Nano Biomedicine and Engineering | 2019
144. **Preparation and characterization of Ag nanoparticles on porous silicon for photo conversion**
J Res Lepid 50 (3), 82-95, 2019 | 2019 | Cited: 11
145. **Fabrication and characterization of porous silicon for humidity sensor application**
Iraqi J Phys 16 (39), 162-170, 2018 | 2018 | Cited: 16
146. **Porous silicon nanoparticles prepared via an improved method: a developing strategy for a successful antimicrobial agent against Escherichia coli and Staphylococcus aureus**
IOP Conference Series: Materials Science and Engineering 454, 012077, 2018 | 2018 | Cited: 82
147. **Synthesis of gold nanoparticles chemically doped with porous silicon for organic vapor sensor by using photoluminescence**
Optik 154, 398-404, 2018 | 2018 | Cited: 53
148. **Study of photoluminescence quenching in porous silicon layers that using for chemical solvents vapor sensor**
Optik 172, 1134-1139, 2018 | 2018 | Cited: 59
149. **Synthesis and Characterization of SnO₂ on Porous Silicon for Photoconversion**
Silicon | 2018
150. **Synthesis of gold nanoparticles by laser ablation on porous silicon for sensing CO₂ gas**
Iraqi Journal of Physics 16 (36), 1-10, 2018 | 2018 | Cited: 7
151. **Synthesis and Characterization of SnO₂ on Porous Silicon for Photoconversion**
Silicon 10, 967-974, 2018 | 2018 | Cited: 51
152. **study of kidney Parameters Induced by Porous Silicon Nanoparticles**
Engineering and Technology Journal 35 (2 Part B), 2017 | 2017 | Cited: 3
153. **Preparation and Characterization Study of Porous Silicon Doped with Cu and Ag**
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