



Raid Abedulwahab Ismail

رائد عبدالوهاب إسماعيل خليل القيسي

Professor

PROFILE

Prof. Dr. Raid A. Ismail is a professor at the University of Technology in Iraq. He got his B.Sc. from Mustansiriyah University, Baghdad, Iraq, in 1986. He got his M.Sc in laser material processing in 1991. He got his PhD in laser applications and photodetectors from the University of Technology, Baghdad, Iraq, in 1995. He supervised more than 73 M.Sc and PhD theses. He published more than 175 articles in Scopus and Clarivate journals and more than 40 articles in local journals. He is a member of the editorial board of two international journals. He has been awarded eight patents in the field of photodetectors. Research interesting fields: nanomaterials, photodetectors, solar cells, nonlinear crystals, thin films, and laser applications. Prof. Raid is now the Head of the Applied Science Department at the University of Technology.

ACADEMIC TITLES

2014-01-04 Professor

ADMINISTRATIVE POSITIONS

2012-06-01 - 2016-05-02	Head of laser branch
2016-06-06 - 2020-11-27	Department Head deputy of scientific affairs
2020-06-01 - Present	Head of department

PUBLICATIONS (3 3 3)

- Bioactivity and Antibacterial Performance of Bioactive Glass–Nano-Hydroxyapatite Composites.**
Journal of Composite & Advanced Materials/Revue des Composites et des..., 2026 | 2026
- Fabrication and characterization of efficient visible-NIR CdS/porous Si/p-Si photodetectors via laser-enhanced chemical bath deposition**
RSC advances 16 (4), 3207-3219, 2026 | 2026 | Cited: 1
- Synthesis and Characterisation of Bioactive Glass 45S5 by Sol-gel Method and Evaluation of Biological Properties in vitro**
Journal of Applied Sciences and Nanotechnology 6 (2), 1-16, 2026 | 2026
- High-performance broadband SiC nanoparticles/porous silicon photodetector prepared by laser ablation in liquid**
RSC Advances | 2026
- Facile fabrication of porous Bi₂S₃/Si photodetectors by one step laser ablation in liquid**
Scientific Reports, 2026 | 2026 | Cited: 2
- Novel synthesis of MoS₂ nanoparticles via pulsed laser ablation in liquid for high-performance photodetection applications**
Scientific Reports, 2026 | 2026 | Cited: 1
- Efficient All-Inorganic Eco-Friendly Perovskite Photovoltaic using Germanium Cation**
Micro and Nanostructures, 208623, 2026 | 2026
- Preparation of high-performance nanostructured CdS/porous Si photodetector by laser-assisted chemical bath deposition**
Journal of Materials Science: Materials in Electronics 37 (7), 492, 2026 | 2026

CONTACT

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EDUCATION

Doctorate (1996-01-01)
Physics
University of Technology

RESEARCH METRICS

h-index (Scopus)	47
h-index (GS)	49
Citations (Scopus)	4908
Citations (GS)	5977
Documents (Scopus)	243
Documents (GS)	325



9. **Synthesis of PbO nanoparticles/porous Si/c-Si photodetector by one-step laser ablation in liquid**
Emergent Materials 9 (1), 24, 2026 | 2026
10. **Novel synthesis of MoS**
2026
11. **Correlation between microstructure and optical transparency of PLD-derived nanostructured La₂O₃**
Experimental and Theoretical Nanotechnology 10 (1), 2026 | 2026
12. **Antibacterial and biocompatibility potentials of zinc oxide quantum dots via Nd: YAG laser ablation**
Scientific Reports, 2026 | 2026
13. **Laser fluence dependent antibacterial activity of cadmium sulfide quantum dots prepared by one step laser ablation in liquid**
Scientific Reports, 2026 | 2026
14. **Chitosan/silver/hyaluronic acid as a novel nanocomposite against Candida Spp.**
AIP Conference Proceedings 3396 (1), 030012, 2026 | 2026
15. **Sustainable Nanotechnology in Dermatology Using CuO@ MgO Nanocomposites as Promising Anti-Acne Agents via In-Vitro and In Silico Prediction**
Biomedical Materials & Devices, 1-24, 2026 | 2026
16. **Laser Ablation of Pbl2 Nanoparticles in Liquid Phase for Tuning Optoelectronic Devices: Effect of Laser Fluence**
Lasers in Manufacturing and Materials Processing, 1-22, 2026 | 2026
17. **Reactive sputtered Zn₃N₂—CN_x hybrid films for silicon heterojunction photodetection**
RSC Advances | 2026
18. **Fabrication and characterization of polyaniline/Si heterojunction photodetector prepared by laser ablation in liquid**
Journal of Optics 55 (1), 708-714, 2026 | 2026 | Cited: 4
19. **High-performance n-V2O5/p-Si heterojunction photodetector prepared by pulsed laser deposition: role of laser fluence**
Journal of Materials Science: Materials in Electronics 36 (7), 426, 2025 | 2025 | Cited: 2
20. **Structural Characteristics of Alumina Nanoparticles Synthesised by DC Reactive Sputtering Technique**
Journal of Applied Sciences and Nanotechnology 5 (3), 13-23, 2025 | 2025 | Cited: 1
21. **Innovative Synthesis of Au@WO₃ Core—Shell Nanoparticles via Laser Ablation: Insights into Their Pharmaceutical Properties for Biomedical Applications**
Plasmonics 20 (6), 3817-3829, 2025 | 2025 | Cited: 1
22. **WO₃ nanoparticles-embedded porous silicon: Dual-function materials synthesized via laser ablation and electrochemical etching for advanced photodetection and gas sensing applications**
Optical Materials | 2025
23. **Developing Environment-friendly Protocols to Prepare Silver Oxide Nanoparticles Using Orange Peel Extract.**
Nonlinear Optics, Quantum Optics: Concepts in Modern Optics 62, 2025 | 2025 | Cited: 2
24. **Preparation of High-performance BaTiO₃ Nanoparticles-embedded Porous Silicon Photodetectors by Electrochemical Etching and Laser Ablation in Liquid**
Silicon 17 (1), 205-218, 2025 | 2025 | Cited: 2
25. **Intense pulsed light annealing of CdS and Au-decorated CdS nanoparticles for high-performance, self-powered silicon-based heterojunction photodetectors**
RSC Advances 15 (28), 22989-23002, 2025 | 2025 | Cited: 2
26. **Structural and optical properties of black silicon prepared by wet chemical etching**
Mustansiriyah Journal of Pure and Applied Sciences 3 (1), 123-134, 2025 | 2025 | Cited: 2
27. **Preparation and characterization study of photodetector-based black silicon**
AIP Conference Proceedings 3282 (1), 050035, 2025 | 2025

28. **Spectroscopic Characteristics and Gain Calculations of Random Gain Media Fabricated from Metal Oxide Nanoparticles Embedded in Different Laser Dyes**
Plasmonics, 1-13, 2025 | 2025 | Cited: 1
29. **Self-biased TiO₂/Si heterostructure for UV-NIR detection via one-step laser ablation process**
Materials Letters, 139013, 2025 | 2025 | Cited: 1
30. **Enhanced responsivity of Fe₃O₄ nanoparticles/porous silicon heterojunction photodetectors**
Journal of Optics, 1-16, 2025 | 2025
31. **PREPARATION OF POROUS SILICON STRUCTURE EMBEDDED WITH CdS FOR H₂S Gas SENSING APPLICATIONS AND ITS INFLUENCE ON THE ENVIRONMENT**
Iraqi Journal of Agricultural Sciences 56 (4), 1561-1573, 2025 | 2025
32. **Efficient removal of MB dye from wastewater via cadmium ferrite nanocomposites**
International Journal of Environmental Science and Technology, 1-18, 2025 | 2025 | Cited: 1
33. **Eco-friendly synthesis of eggshell-derived nano-hydroxyapatite: physicochemical characterization, hemocompatibility, and bone regeneration potential**
Scientific Reports 15 (1), 32832, 2025 | 2025 | Cited: 9
34. **Nanostructured n-FeS₂/SiO₂/p-Si heterojunction for self-driven Vis-NIR photodetection**
Micro and Nanostructures, 208383, 2025 | 2025 | Cited: 1
35. **Synthesis and characterization of Al₂O₃ NPs/epichlorohydrin nanocomposites for enhanced gamma-ray shielding performance**
Applied Radiation and Isotopes, 112157, 2025 | 2025 | Cited: 1
36. **Fabricating In₂O₃ NPs /MWCNTs heterostructure photodetectors by laser ablation method**
Journal of Materials Science: Materials in Electronics 36 (3), 185, 2025 | 2025 | Cited: 3
37. **Laser-Assisted Chemical Bath Deposition Of FeS₂/Si Photodetectors With Improved Performance**
Journal of Optics, 1-11, 2025 | 2025 | Cited: 3
38. **Synthesis and characterization of nickel ferrite nanostructures by DC reactive sputtering technique using new target configuration**
Plasmonics 20 (4), 2003-2011, 2025 | 2025 | Cited: 4
39. **High-performance broadband Bi₂S₃/Si hybrid photodetectors: design, fabrication, and characterization**
Emergent Materials, 1-19, 2025 | 2025 | Cited: 5
40. **Fabrication of Hybrid Nanostructured Bi₂S₃/Si Heterojunction Photodetector by Laser ablation in Thiourea**
Journal of Science: Advanced Materials and Devices, 100919, 2025 | 2025 | Cited: 5
41. **Liquid-Phase Laser Ablation Synthesis of CsPbI₃ Nanorods for High Responsivity Photodetectors**
Sensors and Actuators A: Physical, 116775, 2025 | 2025 | Cited: 4
42. **Nanostructured WS₂-integrated pyramid-like porous silicon heterojunction for self-driven wideband photodetection**
Sensors and Actuators A: Physical, 117070, 2025 | 2025 | Cited: 10
43. **Fast-response self-powered double-heterojunction n-ZnO/p-ZnTe/n-Si photodetector**
Nanoscale Advances, 2025 | 2025 | Cited: 8
44. **Pharmaceutical properties of novel 3-((diisopropylamino) methyl)-5-(4-((4-(dimethylamino) benzylidene) imino) phenyl)-1, 3, 4-oxadiazole-2 (3 H)-thione**
Scientific Reports 15 (1), 15019, 2025 | 2025 | Cited: 10
45. **WO₃ nanoparticles-embedded porous silicon: Dual-function materials synthesized via laser ablation and electrochemical etching for advanced photodetection and gas sensing**
Optical Materials 163, 116971, 2025 | 2025 | Cited: 6
46. **Boosting the performance of triple-cation perovskite solar cells through 2-phenylethanethiol treatment and green anti-solvent**
Organic Electronics 143, 107254, 2025 | 2025 | Cited: 8
47. **Photoresponse Evaluation of a Multiband Self-Driven SnO₂/CuO/Si Heterojunction Photodetector Fabricated by Pulsed Laser Deposition**
ACS Applied Electronic Materials 7 (8), 3409-3415, 2025 | 2025 | Cited: 19

48. **Preparation of a nanostructured CdTe@ CdS core–shell/Si photodetector by two-step laser ablation in liquid**
Journal of Optics 54 (3), 700-711, 2025 | 2025 | Cited: 13
49. **Investigations on device structure and sensing mechanism using gold nanoparticles decorated photonic crystal fiber-based biosensors**
Plasmonics 19 (2), 533-550, 2024 | 2024 | Cited: 9
50. **Substrate temperature impact on preparing Nb2O5 Nano-films by IR-Nd: YAG using pulsed laser deposition technique**
Journal of Optics 53 (4), 3534-3547, 2024 | 2024 | Cited: 3
51. **Preparation of High-performance BaTiO**
2024
52. **Innovative Synthesis of Au@WO3 Core–Shell Nanoparticles via Laser Ablation: Insights into Their Pharmaceutical Properties for Biomedical Applications**
Plasmonics | 2024 | Cited: 1
53. **Optimizing charge transport in hybrid GaN-PEDOT:PSS/PMMA Device for advanced application**
Scientific Reports | 2024 | Cited: 9
54. **Fabrication of tandem BaTiO3/CdS/Si photodetector by pulsed laser deposition**
Journal of Materials Science: Materials in Electronics 35 (26), 1757, 2024 | 2024 | Cited: 2
55. **Advancements and challenges in pulsed laser-deposited hydrophobic CeO2 film for broadband antireflection applications**
Journal of Optics 53 (3), 2745-2756, 2024 | 2024 | Cited: 7
56. **Fabrication of high-performance ZnO nanostructure/Si photodetector by laser ablation**
Silicon 16 (4), 1543-1557, 2024 | 2024 | Cited: 11
57. **Fabrication of high-performance nanostructured CsPbI3/Si perovskite photodetector by pulsed laser deposition: Challenges and prospects**
Optical Materials 155, 115890, 2024 | 2024 | Cited: 14
58. **Optimizing the optoelectronic properties of broadband FeS 2/Si photodetectors via deposition temperature tuning in chemical bath deposition**
RSC advances 14 (50), 37019-37034, 2024 | 2024 | Cited: 4
59. **Fabrication and characterization of visible-enhanced CeO2/Si photodetectors using pulsed laser deposition**
Applied Physics A 130 (9), 624, 2024 | 2024 | Cited: 4
60. **Design and optimization of integrated Mach–Zehnder modulators in X-cut lithium niobate thin film/si wafer**
Journal of Optics 53 (4), 3014-3023, 2024 | 2024 | Cited: 3
61. **Fabrication of a random laser by embedding copper oxide nanoparticles in nonmetallic host media**
Luminescence 39 (12), e70030, 2024 | 2024 | Cited: 2
62. **Insights into the photo-sensing properties of nanostructured BaTiO3/Si photodetector**
Journal of Optics, 1-18, 2024 | 2024 | Cited: 4
63. **Effect of rapid thermal annealing on photovoltaic properties of silicon solar cell fabricated by one-step laser doping in liquid**
Applied Physics A 130 (1), 26, 2024 | 2024 | Cited: 1
64. **Optoelectronic characteristics of NiFe2O4 nanoparticles/porous silicon heterojunction fabricated by drop casting method**
Optical and Quantum Electronics 57 (1), 48, 2024 | 2024 | Cited: 1
65. **Enhancement of optoelectronic properties of Vanadium nitride/porous silicon heterojunction photodetector prepared by electrochemical etching and reactive DC sputtering**
Journal of the Indian Chemical Society 101 (11), 101432, 2024 | 2024 | Cited: 7
66. **Laser pulse tuning for optimized photodetector performance in CsPbI3/Si heterojunctions**
Optical and Quantum Electronics 57 (1), 64, 2024 | 2024 | Cited: 3
67. **New trends in the preparation of high-performance Au/B-Si photodetector by wet chemical etching: the effect of etching time**
Journal of Materials Science: Materials in Electronics 35 (10), 1-18, 2024 | 2024 | Cited: 8

68. **Role of substrate temperature on the performance of BaTiO₃/Si photodetector prepared by pulsed laser deposition**
Scientific Reports 14 (1), 4531, 2024 | 2024 | Cited: 28
69. **Optimizing the optoelectronic properties of broadband FeS₂/Si photodetectors via deposition temperature tuning in chemical bath deposition**
RSC Advances | 2024
70. **Effect of gamma irradiation on the optoelectronics properties of porous Si/c-Si heterojunction photodetector**
Silicon 16 (3), 1097-1106, 2024 | 2024 | Cited: 16
71. **Nanosecond Laser Ablation of Au@LiNbO₃ Core–Shell Nanoparticles in Ethanol: Properties and Application in Optoelectronic Devices**
Plasmonics 18 (2), 561-576, 2023 | 2023 | Cited: 20
72. **Recent progress in performance improvement strategies for quantum dot sensitization methods: Challenges, achievements, and future prospects**
APL Materials 11 (9), 2023 | 2023 | Cited: 9
73. **Silver decorated lithium niobat nanostructure by UV activation method for silver–lithium niobate/silicon heterojunction device**
Scientific Reports 13 (1), 11514, 2023 | 2023 | Cited: 19
74. **Investigating the influence of deposition time on nanostructured CdS film prepared by chemical bath deposition for photodetection applications**
Journal of Materials Science: Materials in Electronics 34 (27), 1906, 2023 | 2023 | Cited: 7
75. **Optical Properties of Lithium Niobate Nanoparticles Prepared by Laser Ablation in Different Surfactant Solutions**
Journal of Applied Sciences and Nanotechnology 3 (1), 2023 | 2023 | Cited: 13
76. **Preparation of LiNbO₃ nanoparticles by green synthesis laser ablation in water**
Advances in Natural Sciences: Nanoscience and Nanotechnology 14 (4), 045005, 2023 | 2023 | Cited: 5
77. **Studying the effect of Sn doping on the optoelectronic properties of PbI₂ nanosheets/Si heterojunction photodetector prepared by chemical bath deposition**
Applied Physics A 129 (10), 695, 2023 | 2023 | Cited: 3
78. **Preparation of high-responsivity strontium–doped CuO/Si heterojunction photodetector by spray pyrolysis**
Journal of Materials Science: Materials in Electronics 34 (10), 912, 2023 | 2023 | Cited: 22
79. **Nanostructured visible-enhanced CdS/SiO₂/Si heterojunction photodetectors: synthesis, characterization, and performance optimization**
Physica B: Condensed Matter 669, 415303, 2023 | 2023 | Cited: 10
80. **Preparation and Characterization of UV-Enhanced GaN/ Porous Si Photodetector using PLA in Liquid**
Silicon | 2023 | Cited: 22
81. **Pulsed laser deposition of nanostructured CeO₂ antireflection coating for silicon solar cell**
Journal of Materials Science: Materials in Electronics 34 (33), 2192, 2023 | 2023 | Cited: 8
82. **Fabrication of Visible-Enhanced BxC/SiO₂/Si Photodetector by One-Step Laser ablation**
Silicon, 1-11, 2023 | 2023 | Cited: 2
83. **Effect of porosity on thermal properties of porous silicon**
Silicon 15 (6), 2715-2725, 2023 | 2023 | Cited: 9
84. **Preparation of GaN/Porous silicon heterojunction photodetector by laser deposition technique**
Scientific Reports 13 (1), 14746, 2023 | 2023 | Cited: 19
85. **Effect of laser fluence on the optoelectronic properties of nanostructured GaN/porous silicon prepared by pulsed laser deposition**
Scientific Reports 13 (1), 21007, 2023 | 2023 | Cited: 17
86. **Preparation of high-performance p-CuO/n-Si heterojunction photodetector by laser-assisted chemical bath deposition: effect of laser wavelength**
Ceramics International 49 (7), 11442-11451, 2023 | 2023 | Cited: 18

87. **Preparation of Graphene Oxide@ZrO₂ Core/Shell Nanoparticles by Two-Step Laser Ablation in Liquid Towards a High-Performance Silicon-Based Heterojunction**...
Silicon 15 (13), 5791-5802, 2023 | 2023 | Cited: 16
88. **[Retracted] Preparation of Iron Oxide and Titania-Based Composite, Core-Shell Populated, Nanoparticulates Material by Two-Step LASER Ablation in Aqueous Media as Antimicrobial**...
Bioinorganic Chemistry and Applications 2022 (1), 1854473, 2022 | 2022 | Cited: 21
89. **Effect of nitrogen on the properties of nanostructured zinc nitride heterojunction prepared by reactive magnetron sputtering**
Materials Science in Semiconductor Processing 145, 106664, 2022 | 2022 | Cited: 14
90. **Preparation of novel B₄C nanostructure/Si photodetectors by laser ablation in liquid**
Scientific Reports 12 (1), 16529, 2022 | 2022 | Cited: 21
91. **Synthesis of LiNbO₃/SiO₂/Si Nanostructures Layer by Layer Based on Mach-Zehnder Modulator Using Pulsed Laser Deposition Route**
Silicon 14 (17), 11781-11795, 2022 | 2022 | Cited: 18
92. **Amorphous carbon nitride dual-function anti-reflection coating for crystalline silicon solar cells**
Scientific Reports 12 (1), 9902, 2022 | 2022 | Cited: 72
93. **Preparation of bismuth oxide nanoplatelets/Si Photodetector by laser ablation in liquid under effect of an external magnetic field**
Silicon 14 (1), 107-113, 2022 | 2022 | Cited: 44
94. **Preparation of copper oxide nanosheets by pulsed laser ablation in liquid for anticancer, antioxidant, and antibacterial activities**
Journal of the Indian Chemical Society 99 (11), 100773, 2022 | 2022 | Cited: 21
95. **Colloidal synthesis of cesium iodide nanocrystals for visible-enhanced photodetection applications**
Physica E: Low-dimensional Systems and Nanostructures 143, 115375, 2022 | 2022 | Cited: 8
96. **Preparation of high-quantum efficiency nanostructured Ag₂O/Si photodetector by rapid thermal oxidation of Ag₂S film: The role of oxidation time**
Optik 257, 168794, 2022 | 2022 | Cited: 9
97. **Fabrication of visible-enhanced nanostructured Mn₂O₃/Si heterojunction photodetector by rapid thermal oxidation**
Silicon 14 (10), 5297-5310, 2022 | 2022 | Cited: 15
98. **Aggregation threshold for Novel Au—LiNbO₃ core/shell Nano composite: effect of laser ablation energy fluence**
International Journal of Nanoelectronics and Materials 15 (3), 223-232, 2022 | 2022 | Cited: 31
99. **Preparation of Nanostructured HgI₂ Nanotubes/Si Photodetector by Laser Ablation in Liquid**
Silicon 14 (14), 8397-8407, 2022 | 2022 | Cited: 6
100. **Ultimate figures of merit broadband self-powered obliquely deposited antimony thin film laser detectors**
Scientific Reports 12 (1), 19794, 2022 | 2022 | Cited: 1
101. **High-quantum efficiency of Au@LiNbO₃ core—shell nano composite as a photodetector by two-step laser ablation in liquid**
Applied Physics A 128 (6), 500, 2022 | 2022 | Cited: 42
102. **Photodetection properties of populated Fe₃O₄@TiO₂ core—shell/Si heterojunction prepared by laser ablation in water**
Applied Physics A 128 (1), 8, 2022 | 2022 | Cited: 23
103. **Mechanism and principle of doping: realizing of silver incorporation in CdS thin film via doping concentration effect**
RSC advances 12 (46), 29613-29626, 2022 | 2022 | Cited: 25
104. **Synthesis of HgI₂ Nanoparticles and Nanorods by Laser Ablation in Liquid for Photodetector Applications: Effect of Laser Fluence**
Journal of Inorganic and Organometallic Polymers and Materials, 1-12, 2022 | 2022 | Cited: 9

105. **Preparation of MAPbI₃ perovskite film by pulsed laser deposition for high-performance silicon-based heterojunction photodetector**
Optical Materials 126, 112147, 2022 | 2022 | Cited: 24
106. **Research Article Preparation of Iron Oxide and Titania-Based Composite, Core-Shell Populated, Nanoparticulates Material by Two-Step LASER Ablation in Aqueous Media as ...**
2022
107. **Correction: Mechanism and principle of doping: realizing of silver incorporation in CdS thin film via doping concentration effect**
RSC Advances | 2022 | Cited: 1
108. **Preparation of Bi₂Sr₂CaCu₂O_x Thin Film by Pulsed Laser Deposition for Optoelectronic Devices Application**
Silicon 14 (6), 2625-2633, 2022 | 2022 | Cited: 17
109. **Synthesis of Colloidal CsHgI₃ Nanocrystals by Laser Ablation in Liquid for Organic–Inorganic Photodetectors: A. S. Abd-Alrahman et al.**
Journal of Electronic Materials 51 (8), 4509-4520, 2022 | 2022 | Cited: 3
110. **High-Responsivity Heterojunction Photodetector Based on Bi₂O₃-Decorated MWCNTs Nanostructure Grown on Silicon via Laser Ablation in Liquid**
Journal of Inorganic and Organometallic Polymers and Materials 32 (4), 1381-1388, 2022 | 2022 | Cited: 50
111. **2D Particle-in-Cell/Monte Carlo Collision Simulation of Zn-C Mosaic Target Erosion**
Journal of Applied Sciences and Nanotechnology 2 (4), 2022 | 2022 | Cited: 1
112. **HgI₂@ CsI core/shell nanoparticles: Synthesis, characterization, and application in photosensors**
Journal of the Indian Chemical Society 99 (7), 100515, 2022 | 2022 | Cited: 4
113. **Preparation and Characteristics Study of High-Quantum Efficiency Ni/PSi/c-Si and cd/PSi/c-Si Double-Junction Photodetectors**
Silicon 14 (17), 11089-11096, 2022 | 2022 | Cited: 11
114. **Study the aging effect on the optoelectronic properties of HgI₂ nanorods /Si heterojunction photodetector**
Optical and Quantum Electronics 54 (12), 803, 2022 | 2022 | Cited: 4
115. **Impact of CN_x Layer Thickness on the Performance of c-Si Solar Cells: Experimental and PC1D Simulation Study**
Silicon 14 (18), 12485-12493, 2022 | 2022 | Cited: 1
116. **Preparation of nanostructured PbI₂/Si photodetector by magnetic field-assisted laser ablation in liquid**
Silicon 14 (16), 10291-10300, 2022 | 2022 | Cited: 9
117. **Preparation and gas sensing properties of rGO/CuO nanocomposites**
ECS Journal of Solid State Science and Technology 11 (3), 035009, 2022 | 2022 | Cited: 7
118. **Preparation of ZnS-decorated MWCNTs/p-Si hybrid photodetector by pulsed laser deposition**
Optical Materials 133, 112998, 2022 | 2022 | Cited: 17
119. **Optical and Electrical Properties of Sr-doped In₂S₃ Thin Films Prepared by Chemical Spray Pyrolysis Technique.**
Tikrit Journal of Pure Science 26 (4), 71-75, 2021 | 2021
120. **The Combination of Laser and Nanoparticles for Enamel Protection: An In Vitro Study**
Journal of Lasers in Medical Sciences 12, 2021 | 2021 | Cited: 8
121. **Magnetic field-assisted laser ablation of titanium dioxide nanoparticles in water for anti-bacterial applications**
Journal of Inorganic and Organometallic Polymers and Materials 31, 3649-3656, 2021 | 2021 | Cited: 164
122. **Preparation of Bi₂Sr₂CaCu₂O_x Thin Film By Pulsed Laser Deposition For Optoelectronic Devices Application**
2021
123. **Magnetic Field – Assisted Laser Ablation of Titanium Dioxide Nanoparticles in Water for Anti-Bacterial Applications**
2021

124. **Preparation and investigation of nanostructured SnO₂:Pd/ porous silicon/c-Si heterostructure solar cell**
Journal of Solid State Electrochemistry | 2021 | Cited: 4
125. **Preparation of Nanostructured HgI₂ Nanotubes /Si Photodetector by Laser Ablation in Liquid Silicon**, 1-11, 2022 | 2021 | Cited: 6
126. **Improvement of cabbage growth and yield by nanofertilizers and nanoparticles**
Environmental Nanotechnology, Monitoring & Management 15, 100437, 2021 | 2021 | Cited: 49
127. **Preparation of nanostructured FeS₂/Si heterojunction photodetector by laser ablation in water under effect of an external magnetic field**
Applied Physics A 127 (3), 214, 2021 | 2021 | Cited: 27
128. **Preparation of Nb₂O₅ nanoflakes by hydrothermal route for photodetection applications: The role of deposition time**
Optik 245, 167778, 2021 | 2021 | Cited: 63
129. **Pulsed laser ablation of tin oxide nanoparticles in liquid for optoelectronic devices**
Silicon 13, 3229-3237, 2021 | 2021 | Cited: 29
130. **Study the optoelectronic properties of PbI₂ nanorods/Si photodetector prepared by magnetic field-assisted laser deposition route**
Optics & Laser Technology 140, 107042, 2021 | 2021 | Cited: 20
131. **Pulsed laser deposition of nanostructured HgI₂ on Si substrate for photodetector application**
Materials Science in Semiconductor Processing 135, 106106, 2021 | 2021 | Cited: 12
132. **Preparation of nanostructured cerium-doped MnS/Si heterojunction photodetector by chemical spray pyrolysis: Influence of doping concentration**
Optik 243, 167457, 2021 | 2021 | Cited: 11
133. **Synthesis and characterization of magnetite Fe₃O₄ nanoparticles using one step laser ablation in water under effect of external magnetic field**
Journal of Physics: Conference Series 1795 (1), 012028, 2021 | 2021 | Cited: 7
134. **Influence of cerium oxide nanoparticles and NPK nanofertilizers on growth and yield of cabbage plant**
Plant Archives 21 (1), 1326-1331, 2021 | 2021 | Cited: 6
135. **Preparation of blue luminescence gold quantum dots using laser ablation in aromatic solvents**
Applied Nanoscience 11, 2779-2791, 2021 | 2021 | Cited: 9
136. **Effect of molar concentration on the structural, optical and electrical properties of the MnS thin film prepared by spray pyrolysis**
Journal of Physics: Conference Series 1795 (1), 012032, 2021 | 2021 | Cited: 6
137. **Energy band diagram of FTO/porous silicon heterostructure**
Journal of Physics: Conference Series 1795 (1), 012016, 2021 | 2021 | Cited: 11
138. **MINAR International Journal of Applied Sciences and Technology**
2021
139. **Structural, Optical and Electrical Properties of KClI₂ Film Deposited by Spray Pyrolysis**
Journal of Physics: Conference Series 1795 (1), 012027, 2021 | 2021 | Cited: 2
140. **Preparation and characterization of β -MnS nanostructure/Si photodetector by spray pyrolysis**
AIP Conference Proceedings 2372 (1), 2021 | 2021
141. **High-responsivity hybrid α -Ag₂S/Si photodetector prepared by pulsed laser ablation in liquid**
Beilstein Journal of Nanotechnology 11 (1), 1596-1607, 2020 | 2020 | Cited: 40
142. **Deposition geometry effect on structural, morphological and optical properties of Nb₂O₅ nanostructure prepared by hydrothermal technique**
Applied Physics A 126 (11), 891, 2020 | 2020 | Cited: 69
143. **Some critical issues on the structural properties of Nb₂O₅ nanostructure film deposited by hydrothermal technique**
AIP Conference Proceedings 2213 (1), 2020 | 2020 | Cited: 64

144. **Antibacterial and cytotoxic activities of cerium oxide nanoparticles prepared by laser ablation in liquid**
Environmental Science and Pollution Research 27 (24), 30479-30489, 2020 | 2020 | Cited: 128
145. **Preparation of visible-enhanced PbI₂/MgO/ Si heterojunction photodetector**
Optik | 2020 | Cited: 25
146. **Preparation and characterization of carbon nanotubes by pulsed laser ablation in water for optoelectronic application**
Physica E: Low-dimensional Systems and Nanostructures 119, 113997, 2020 | 2020 | Cited: 189
147. **Effect of molar concentration of CuCl₂ on the characteristics of Cu₂S film**
Optical and Quantum Electronics 52 (11), 499, 2020 | 2020 | Cited: 12
148. **Modifications of Hydroxyapatite properties by nanosecond Nd: YAG laser pulses**
Lasers in Manufacturing and Materials Processing 7 (3), 305-316, 2020 | 2020 | Cited: 6
149. **Structural and optical properties of Ag₂S nanotubes prepared by laser ablation in liquid**
IOP Conference Series: Materials Science and Engineering 757 (1), 012027, 2020 | 2020 | Cited: 3
150. **Photovoltaic properties of ITO/p-Si heterojunction prepared by pulsed laser deposition**
International Journal of Modern Physics B 34 (32), 2050321, 2020 | 2020 | Cited: 4
151. **Novel route to prepare lanthanum oxide nanoparticles for optoelectronic devices**
International Journal of Modern Physics B 34 (13), 2050134, 2020 | 2020 | Cited: 17
152. **Fabrication and characterization of high photosensitivity CuS/porous silicon heterojunction photodetector**
Optik 221, 165339, 2020 | 2020 | Cited: 51
153. **Acid resistance enhancement of human tooth enamel surface by Nd: YAG laser and incorporating silver nanoparticles: in vitro study**
Lasers in Dental Science 4, 7-16, 2020 | 2020 | Cited: 5
154. **Synthesis of ZnO nanorods on a silicon substrate via hydrothermal route for optoelectronic applications**
Optical and Quantum Electronics 52 (4), 212, 2020 | 2020 | Cited: 92
155. **Preparation and characteristics study of polystyrene/porous silicon photodetector prepared by electrochemical etching**
Journal of Inorganic and Organometallic Polymers and Materials 29, 1100-1110, 2019 | 2019 | Cited: 20
156. **Growth of Nb₂O₅ film using hydrothermal method: effect of Nb concentration on physical properties**
Materials Research Express 6 (11), 116429, 2019 | 2019 | Cited: 101
157. **Synthesis of cadmium oxide/Si heterostructure for two-band sensor application**
Iranian Journal of Science and Technology, Transactions A: Science 43 (3 ...), 2019 | 2019 | Cited: 76
158. **Effect of light induced heat treatment on the structural and morphological properties of LiNbO₃ thin films**
Superlattices and Microstructures 128, 67-75, 2019 | 2019 | Cited: 64
159. **High-performance nanostructured p-Cu₂S/n-Si photodetector prepared by chemical bath deposition technique**
Journal of Materials Science: Materials in Electronics 30 (12), 11807-11818, 2019 | 2019 | Cited: 59
160. **Visible-enhanced silver-doped PbI₂ nanostructure/Si heterojunction photodetector: effect of doping concentration on photodetector parameters**
Optical and Quantum Electronics 51, 1-19, 2019 | 2019 | Cited: 82
161. **Effect of substrate temperature on the characteristic of p-PbI₂/n-Si heterojunction grown by pulsed laser deposition technique**
Materials Science in Semiconductor Processing 99, 165-174, 2019 | 2019 | Cited: 19
162. **Increasing the silicon solar cell efficiency with nanostructured SnO₂ anti-reflecting coating films**
Silicon 11 (1), 543-548, 2019 | 2019 | Cited: 27
163. **Effect of laser energy on the properties of nanostructured lead iodide film prepared via pulsed laser deposition technique**
Optik 176, 206-213, 2019 | 2019 | Cited: 17

164. **Fabrication of high photosensitivity nanostructured n-Fe₂O₃/p-Si heterojunction photodetector by rapid thermal oxidation of chemically sprayed Fe₂S film**
Materials Research Express 6 (12), 126202, 2019 | 2019 | Cited: 19
165. **Pulsed laser deposition of nanostructured MgO film: effect of laser fluence on the structural and optical properties**
Materials Research Express 6 (7), 075007, 2019 | 2019 | Cited: 22
166. **Effect of dipping time on the properties of Sb₂S₃/Si heterojunction prepared by chemical bath deposition**
Materials Research Express 6 (4), 045915, 2019 | 2019 | Cited: 21
167. **Preparation and Characterization of CeO₂@Ag Core/Shell Nanoparticles by Pulsed Laser Ablation in Water**
Lasers in Manufacturing and Materials Processing 6 (2), 126-135, 2019 | 2019 | Cited: 16
168. **Critical methanol to ethanol volume ratio effect on the electrodeposition of DLC films**
Optik 179, 29-36, 2019 | 2019 | Cited: 9
169. **Laser—synthesised Ag₂S nanoparticles in liquid: effect of laser fluence on structural and optical properties**
Materials Research Express 6 (12), 125026, 2019 | 2019 | Cited: 8
170. **Study an Effect of Thiourea Concentration on the Structural, Optical and Electrical Properties of (Cu₂S) film Prepared by Chemical Bath Deposition (CBD)**
Kirkuk University Journal-Scientific Studies 14 (3), 97-115, 2019 | 2019 | Cited: 3
171. **Elicitation of barrier height of rapid thermal annealed Bi-nSi Schottky photodetector using various methods: A comparative study**
Optik 188, 46-51, 2019 | 2019 | Cited: 1
172. **Study the Effect Thiourea Concentration to (Cu₂S/Si) Heterojunction Photodetector by Chemical Bath Deposition (CBD)**
Kirkuk University Journal-Scientific Studies 14 (3), 209-228, 2019 | 2019 | Cited: 3
173. **The Influence of Temperature on the structural and optical properties of Sb₂S₃ thin films prepared by chemical bath deposition method**
Tikrit Journal of Pure Science 24 (2), 79-83, 2019 | 2019
174. **Improved growth conditions of pulsed laser-deposited PbI₂ nanostructure film: towards high-photosensitivity PbI₂/CNTs/Si photodetectors**
Journal of Materials Science: Materials in Electronics | 2019 | Cited: 17
175. **Fabrication of high photosensitivity nanostructured n-Fe₂O₃/p-Si heterojunction photodetector by rapid thermal oxidation of chemically sprayed Fe₂S film**
Materials Research Express | 2019
176. **Growth of Nb₂O₅ film using hydrothermal method: effect of Nb concentration on physical properties**
Materials Research Express | 2019
177. **Hybrid CdS nanowires/Si heterostructure photodetector fabricated by intense pulsed light assisted - laser ablation in liquid**
Optical and Quantum Electronics | 2019 | Cited: 8
178. **Hybrid p-Au@PbI₂/n-Si heterojunction photodetector prepared by pulsed laser ablation in liquid**
Optik | 2019 | Cited: 24
179. **Electrophoretic deposition of hydroxyapatite~shrimp crusts nanocomposite thin films for bone implant studies**
IET nanobiotechnology 12 (6), 714-721, 2018 | 2018 | Cited: 6
180. **Effect of spraying time on the structural and electrical properties of InAs nanowires**
Applied Nanoscience 8 (8), 2057-2064, 2018 | 2018 | Cited: 1
181. **Preparation of silver iodide nanoparticles using laser ablation in liquid for antibacterial applications**
IET nanobiotechnology 12 (6), 781-786, 2018 | 2018 | Cited: 89

182. **Synthesis of SiC nanoparticles by SHG 532 nm Nd:YAG laser ablation of silicon in ethanol**
Applied Physics A: Materials Science and Processing | 2018 | Cited: 63
183. **Preparation of low cost n-ZnO/MgO/p-Si heterojunction photodetector by laser ablation in liquid and spray pyrolysis**
Materials Research Express 5 (5), 055018, 2018 | 2018 | Cited: 55
184. **Morphological and Optical Constants of CdS Thin Films Deposited by SILAR Method**
Journal of College of Education, 2018 | 2018
185. **Effect of Time Immersion of Thiourea on Structural and Optical Properties of CdS Deposited by SILAR**
World Scientific News, 73-85, 2018 | 2018
186. **Synthesis of hybrid Au@PbI₂ core-shell nanoparticles by pulsed laser ablation in ethanol**
Materials Research Express 5 (11), 115024, 2018 | 2018 | Cited: 20
187. **Preparation and characteristics study of CdS/macroporous silicon/c-Si double heterojunction photodetector by spray pyrolysis technique**
Optik 168, 302-312, 2018 | 2018 | Cited: 32
188. **Effect of Laser Fluence on the Structural, Morphological and Optical Properties of 2H-PbI₂ Nanoparticles Prepared by Laser Ablation in Ethanol**
Journal of Inorganic and Organometallic Polymers and Materials 28, 2365-2374, 2018 | 2018 | Cited: 28
189. **Synthesis of Au nanoparticles—decorated CdS nanowires via laser ablation in liquid for optoelectronic applications**
Applied Physics A 124 (10), 683, 2018 | 2018 | Cited: 21
190. **New route for cadmium sulfide nanowires synthesis via pulsed laser ablation of cadmium in thiourea solution**
Materials Research Express 5 (2), 025017, 2018 | 2018 | Cited: 16
191. **Decoration of copper oxide nanoplatelets with gold nanoparticles by laser ablation in methanol for photodetection applications**
Optical and Quantum Electronics 50 (7), 300, 2018 | 2018 | Cited: 15
192. **Preparation of multi-walled carbon nanotubes/n-Si heterojunction photodetector by arc discharge technique**
Optik 164, 395-401, 2018 | 2018 | Cited: 15
193. **Preparation of n-ZnO/p-Si heterojunction photodetector via rapid thermal oxidation technique: effect of oxidation time**
Applied Physics A 124, 1-11, 2018 | 2018 | Cited: 19
194. **Effect of nitrogen pressure on the performance of aC: N/p-Si photodetector prepared by pulsed laser deposition**
Optik 139, 328-337, 2017 | 2017 | Cited: 8
195. **Construction and temporal behaviour study of multi RLC intense light pulses for dermatological applications**
Journal of Cosmetic and Laser Therapy 19 (6), 325-333, 2017 | 2017 | Cited: 1
196. **Synthesis and characterization of nanostructured LiNbO₃ films with variation of stirring duration**
Journal of Materials Science: Materials in Electronics 28, 11813-11822, 2017 | 2017 | Cited: 66
197. **Study of the effect of incorporation of CdS nanoparticles on the porous silicon photodetector**
Silicon 9, 321-326, 2017 | 2017 | Cited: 63
198. **Laser ablation of Au—CuO core—shell nanocomposite in water for optoelectronic devices**
Materials Research Express 4 (12), 125020, 2017 | 2017 | Cited: 21
199. **Preparation and characteristics study of diamond like carbon/silicon heterojunction photodetector by pulsed laser deposition**
Optical and Quantum Electronics 49, 1-15, 2017 | 2017 | Cited: 12
200. **Micro and nano laser pulses for melting and surface alloying of aluminum with copper**
Lasers in Manufacturing and Materials Processing 4, 24-35, 2017 | 2017 | Cited: 9
201. **Preparation and characterization of aluminum oxide nanoparticles by laser ablation in liquid as passivating and anti-reflection coating for silicon photodiodes**
Applied Nanoscience 7, 477-487, 2017 | 2017 | Cited: 93

202. **Preparation and characteristics study of nano-porous silicon UV photodetector**
Applied Nanoscience 7, 9-15, 2017 | 2017 | Cited: 84
203. **New trends in ZnO nanoparticles/n-Si heterojunction photodetector preparation by pulsed laser ablation in ethanol**
Optik 147, 391-400, 2017 | 2017 | Cited: 14
204. **Preparation and properties of polystyrene incorporated with gold and silver nanoparticles for optoelectronic applications**
Applied Nanoscience 7, 109-116, 2017 | 2017 | Cited: 72
205. **Preparation and characteristics study of CuAlO₂/Si heterojunction photodetector by pulsed laser deposition**
Journal of Materials Science: Materials in Electronics 28, 6889-6896, 2017 | 2017 | Cited: 20
206. **Characterization of high photosensitivity nanostructured 4H-SiC/p-Si heterostructure prepared by laser ablation of silicon in ethanol**
Materials Science in Semiconductor Processing 68, 252-261, 2017 | 2017 | Cited: 58
207. **Preparation and Characteristics Study of Diamond - Like Carbon (DLC) Film onn-Si Substrates by Electrolysis of Methanol**
Engineering and Technology Journal 34 (5), 703-710, 2016 | 2016 | Cited: 2
208. **Reactive PLD of ZnO thin film for optoelectronic application**
Int. J. Nanoelectronics and Materials 9 (-), 111-122, 2016 | 2016 | Cited: 60
209. **Synthesis of PbI₂ nanoparticles by laser ablation in methanol**
Journal of Materials Science: Materials in Electronics 27, 10696-10700, 2016 | 2016 | Cited: 58
210. **Preparation of high-sensitivity In₂S₃/Si heterojunction photodetector by chemical spray pyrolysis**
Optical and Quantum Electronics 48, 1-14, 2016 | 2016 | Cited: 59
211. **Synthesized and characterization of pure and Er³⁺ doped ZnO nanoparticles by using laser ablation in ethanol**
World Scientific News 33 (2016), 67-78, 2016 | 2016 | Cited: 8
212. **Synthesis of diamond-like carbon films by electro-deposition technique for solar cell applications**
Optical and Quantum Electronics 48, 1-11, 2016 | 2016 | Cited: 22
213. **Effect of multiwalled carbon nanotubes incorporation on the performance of porous silicon photodetector**
Optik 127 (19), 8144-8152, 2016 | 2016 | Cited: 18
214. **Preparation of iron oxide nanoparticles by laser ablation in DMF under effect of external magnetic field**
International Journal of Modern Physics B 30 (17), 1650094, 2016 | 2016 | Cited: 19
215. **WITHDRAWN: Investigations on SnO₂: Pd/Porous Silicon Structures for Solar Cell Application**
Optik-International Journal for Light and Electron Optics, 2016 | 2016
216. **Structural and optical properties of undoped and Er³⁺-doped ZnO nanoparticles synthesized by laser ablation in Ethanol**
International Letters of Chemistry, Physics and Astronomy 63, 37, 2016 | 2016 | Cited: 8
217. **The effect of molarity on some physical properties of In₂S₃ thin films deposited by chemical spray pyrolysis technique**
International Letters of Chemistry, Physics and Astronomy 63, 135, 2016 | 2016 | Cited: 3
218. **SYNTHESES AND PHYSICAL STUDIES OF PHOTONICS LITHIUM NIOBATE GROWN ON QUARTZ FOR OPTICAL WAVEGUIDE**
Sci.Int.(Lahore) 28 (6), 5055, 2016 | 2016
219. **Characteristics study of nanostructured CdO prepared by spray pyrolysis**
Int Lett Chem Phys Astron 53, 165-72, 2015 | 2015 | Cited: 1
220. **Design and temporal control study of multi-LC network medical Intense Pulsed Light (IPL) system**
Engineering and Technology Journal 33 (5), 772-778, 2015 | 2015
221. **Impact of changing anodization current density on structural and morphological properties of PSi layer**
International Letters of Chemistry, Physics and Astronomy 53, 181, 2015 | 2015 | Cited: 3

222. **Preparation of colloidal lead sulfide nanoparticles by laser ablation in water for optoelectronic devices applications**
High Energy Chemistry 49, 58-63, 2015 | 2015 | Cited: 5
223. **Effect of laser fluence on the characteristics of CdSe nanoparticles prepared by laser ablation in methanol**
High Energy Chemistry 49, 438-448, 2015 | 2015 | Cited: 8
224. **Improved photoresponse of porous silicon photodetectors by embedding CdSe nanoparticles**
NISCAIR-CSIR, India, 2015 | 2015 | Cited: 25
225. **Structural, Morphological, Chemical and Optical Properties of Porous Silicon Prepared By Electrochemical Etching**
Journal of Thin Films Science and Technology 4 (3), 199, 2015 | 2015 | Cited: 19
226. **Annealing time effect on nanostructured n-ZnO/p-Si heterojunction photodetector performance**
Surface Review and Letters 22 (02), 1550027, 2015 | 2015 | Cited: 21
227. **Characterization of CdS nanoparticles prepared by laser ablation in methanol**
Journal of Materials Science: Materials in Electronics 26, 9853-9858, 2015 | 2015 | Cited: 29
228. **Photovoltaic Properties of CdO/Porous Si Heterojunction Photodetector**
2015 | Cited: 2
229. **Antibacterial activity of magnetic iron oxide nanoparticles synthesized by laser ablation in liquid**
Materials Science and Engineering: C 53, 286-297, 2015 | 2015 | Cited: 299
230. **Preparation and characterization of PANi films by electrochemical polymerization**
Iraqi Journal of Applied Physics 10 (2), 2014 | 2014 | Cited: 3
231. **Effect of pH on the structural and optical properties of nanostructured CdO films grown by chemical bath deposition technique**
Micro & Nano Letters 9 (12), 935-939, 2014 | 2014 | Cited: 12
232. **Article Characterizations of Hydroxyapatite Thin Films Deposited by Spray Pyrolysis on Titanium Substrates for Bone Implant Applications**
Iraqi Journal of Applied Physics 10 (3), 11-16, 2014 | 2014
233. **Synthesis and characterization of diamond-like carbon film on silicon by electrodeposition from solution of ethanol and methanol**
Materials Science in semiconductor processing 27, 461-467, 2014 | 2014 | Cited: 15
234. **Effect of electric field on the properties of bismuth oxide nanoparticles prepared by laser ablation in water**
Journal of Materials Science: Materials in Electronics 25, 1435-1440, 2014 | 2014 | Cited: 58
235. **Optoelectronic properties of porous silicon heterojunction photodetector**
Indian Journal of Physics 88 (1), 59-63, 2014 | 2014 | Cited: 20
236. **Preparation of colloidal cadmium selenide nanoparticles by pulsed laser ablation in methanol and toluene**
Journal of Material science: Materials in electronics 25, 3190-3194, 2014 | 2014 | Cited: 23
237. **Morphological, Structural and Chemical Properties of p-type Porous Silicon Produced by Electrochemical Etching**
Int. J. Thin Film Sci. Tec 3 (3), 121-128, 2014 | 2014 | Cited: 4
238. **Effect of rapid thermal annealing on the characteristics of amorphous carbon/n-type crystalline silicon heterojunction solar cells**
Materials science in semiconductor processing 21, 194-199, 2014 | 2014 | Cited: 53
239. **Preparation of n-ZnO/p-Si solar cells by oxidation of zinc nanoparticles: effect of oxidation temperature on the photovoltaic properties**
Applied Physics A 117, 1977-1984, 2014 | 2014 | Cited: 56
240. **Synthesis and characterization of nano crystalline porous silicon layer for sola cells applications**
Nanoscience and Nanotechnology 8, 279-283, 2014 | 2014 | Cited: 3
241. **Effect of annealing temperature on the optical properties of ZnO nanoparticles**
International Letters of Chemistry, Physics and Astronomy 4, 37-47, 2014 | 2014 | Cited: 13

242. **Characterization of Indium Oxide Thin Films Grown on Silicon Substrates by Spray Pyrolysis Technique**
Iraqi Journal of Applied Physics 9 (2), 2013 | 2013
243. **Morphology and optoelectrical properties study of nano/micro structures silicon layer prepared by photo electrochemical and electrochemical etching**
2013
244. **Characterization of nanostructured hydroxyapatite prepared by Nd:Yag**
Materials Science and Engineering C 33, 47-52, 2013 | 2013 | Cited: 69
245. **Effect of Nd: YAG laser irradiation on the characteristics of porous silicon photodetector**
International Nano Letters 3, 1-8, 2013 | 2013 | Cited: 11
246. **Improvement of Wound Healing in Rabbit Skin by Low Level Polarized Laser Light**
Iraqi journal of Applied Physics 9 (4), 29, 2013 | 2013
247. **Investigation of Pd: SnO₂/porous silicon structures for gas sensing**
International Journal of Application or Innovation in Engineering ..., 2013 | 2013 | Cited: 3
248. **Characteristics of nanostructured CdO/Si heterojunction photodetector synthesized by CBD**
solid state electronics 82, 115-121, 2013 | 2013 | Cited: 74
249. **Effect of etching time on the characteristics of low resistivity porous Si devices**
Modern Physics Letters B 27 (30), 1350217, 2013 | 2013 | Cited: 8
250. **Preparation of a silicon heterojunction photodetector from colloidal indium oxide nanoparticles**
Optics & Laser Technology 51, 1-4, 2013 | 2013 | Cited: 19
251. **Preparation and characterization of nanostructured nickel oxide thin films by spray pyrolysis**
Applied Nanoscience 3, 509-514, 2013 | 2013 | Cited: 79
252. **Fabrication and characterization of porous silicon layer prepared by photo-electrochemical etching in CH₃OH: HF solution**
International Letters of Chemistry, Physics and Astronomy 3, 29-36, 2013 | 2013 | Cited: 16
253. **Fabrication and characterization of porous silicon layer prepared by photo-electrochemical etching in**
International Letters of Chemistry, Physics and Astronomy 3, 29-33, 2013 | 2013
254. **Characteristics of a silicon Schottky photodetector produced from colloidal gold nanoparticles**
micro& nano letters 7 (6), 536-539, 2012 | 2012 | Cited: 11
255. **Characteristics of novel silicon pin photodiode made by rapid thermal diffusion technique**
Journal of Electron Devices 14, 1104-1107, 2012 | 2012 | Cited: 24
256. **Xenon flash lamp annealing of large area silicon photodetector**
Int. J. Nanoelectronics and Materials 5, 31-37, 2012 | 2012 | Cited: 2
257. **Structural and electrical properties of CdO/porous-Si heterojunction**
Iraqi Journal of Physics 10 (18), 76-85, 2012 | 2012 | Cited: 7
258. **CHARACTERISTICS OF NANOSTRUCTURED CdO FILMS PREPARED BY CHEMICAL BATH DEPOSITION TECHNIQUE**
International Journal of Modern Physics B 26 (24), 1250135-9, 2012 | 2012 | Cited: 6
259. **Effect of Substrate Temperature on the structural surface morphological and optical properties of nanostructured CdS thin films**
Tikrit Journal of Pure Science 17 (2), 151-155, 2012 | 2012 | Cited: 4
260. **Effect of rapid thermal annealing on properties of thermally evaporated nanostructured CdTe thin film treated with CdCl₂**
Materials science in semiconductor processing 15 (2), 159-164, 2012 | 2012 | Cited: 7
261. **Structural and morphological study of nanostructured n-type silicon**
Iraqi Journal of Physics 10 (18), 151-158, 2012 | 2012
262. **Synthesis of Colloidal Copper Oxide Nano particles using Pulsed Nd: YAG Laser Ablation in Liquid**
Engineering & Technology Journal 31, 14, 2012 | 2012 | Cited: 8
263. **Preparation of nanocrystalline Cu₂O thin film by pulsed laser deposition**
Journal of Materials Science: Materials in Electronics 22, 1244-1247, 2011 | 2011 | Cited: 62

264. **Preparation and characterization of colloidal ZnO nanoparticles using nanosecond laser ablation in water**
Applied Nanoscience 1, 45-49, 2011 | 2011 | Cited: 99
265. **ISOTYPE SnO₂ Si HETEROJUNCTION MADE BY Rapid PHOTOTHERMAL OXIDATION OF Sn**
International Journal of Modern Physics B 25 (25), 3381-3389, 2011 | 2011 | Cited: 3
266. **Preparation of colloidal In₂O₃ nanoparticles using nanosecond laser ablation in water**
Micro & Nano Letters 6 (11), 951-954, 2011 | 2011 | Cited: 18
267. **Synthesis and characterization of nanostructured SnO₂ film**
Journal of Materials Science: Materials in Electronics 22, 1681-1684, 2011 | 2011 | Cited: 3
268. **Fabrication and Characterization of Photodetector Based on Porous Silicon**
e-J. Surf. Sci. Nanotech. 8, 388-391, 2010 | 2010 | Cited: 56
269. **Effect of rapid thermal annealing on performance of large area crystalline silicon position sensitive detector**
Int. J. Nanoelectronics and Materials 2 (2), 197-204, 2009 | 2009
270. **Study of optical and electrical properties of CdO prepared by chemical spray pyrolysis**
Journal of College of Education, AL-Mustansiriyah University 3 (1), 532-539, 2009 | 2009 | Cited: 2
271. **Room Temperature Photodetector Based on ANISOTYPE (np) Ge-Si Heterojunction**
Iraqi Journal of Physics 7 (9), 37-41, 2009 | 2009
272. **Improved characteristics of sprayed CdO films by rapid thermal annealing**
Journal of Materials Science: Materials in Electronics 20, 1219-1224, 2009 | 2009 | Cited: 52
273. **Characteristics of p-Cu₂O/n-Si heterojunction photodiode made by rapid thermal oxidation**
Journal of semiconductor technology and science 9 (1), 51-54, 2009 | 2009 | Cited: 55
274. **RAPID THERMAL ANNEALING OF SILICON SOLAR CELL USING INCOHERENT LIGHT SOURCE**
Iraqi Journal of Science 50 (Appendix), 23-26, 2009 | 2009
275. **Dependence of photovoltaic properties of CdS/Si Isotype Heterojunction Solar Cells on Deposition Temperature**
OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS 2 (4), 232-236, 2008 | 2008 | Cited: 8
276. **Studies on fabrication and characterization of a high-performance Al-doped ZnO/n-Si (1 1 1) heterojunction photodetector**
Semiconductor science and technology 23 (7), 075030, 2008 | 2008 | Cited: 58
277. **Spray Pyrolysis Deposition of α -Fe₂O₃ Thin Film**
e-Journal of Surface Science and Nanotechnology 6, 96-98, 2008 | 2008 | Cited: 3
278. **Low resistance nonalloyed In ohmic contacts to n-Si irradiated by Nd: YAG laser pulses**
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 2 (12), 818-821, 2008 | 2008
279. **High transmittance-low resistivity cadmium oxide films grown by reactive pulsed laser deposition**
Journal of Materials Science: Materials in Electronics | 2007 | Cited: 66
280. **Full characterization at 904 nm of large area Si p-n junction photodetectors produced by LID technique**
The European Physical Journal Applied Physics 38 (3), 197-201, 2007 | 2007 | Cited: 11
281. **A new route for fabricating CdO/c-Si heterojunction solar cells**
Solar Energy Materials & Solar Cells 91, 903-907, 2007 | 2007 | Cited: 94
282. **Optoelectronic characteristics of NMOS silicon photodetector**
solid state electronics 51, 817-819, 2007 | 2007 | Cited: 2
283. **Pulsed Laser Deposition of Crystalline Cd₂SnO₄ Thin Film**
e-journal of surface science and nanotechnology 5, 152-154, 2007 | 2007 | Cited: 4
284. **Optoelectronic properties of CdTe/Si heterojunction prepared by pulsed Nd:YAG-laser deposition technique**
Materials Science in Semiconductor Processing 10, 19-23, 2007 | 2007 | Cited: 55
285. **Transparent and conducting ZnO films prepared by reactive pulsed laser deposition**
Journal of Materials Science: Materials in Electronics 18, 397-400, 2007 | 2007 | Cited: 61
286. **Laser-Induced Low-Resistance Ohmic Contacts on n-Si**
Iraqi Journal of Laser 5 (A), 5-10, 2006 | 2006

287. **High efficiency In~ 2O~ 3/c-Si heterojunction solar cells produced by rapid thermal oxidation**
Journal of optoelectronics and advanced materials 8 (4), 1443, 2006 | 2006 | Cited: 52
288. **Junction characteristics of wide – emitter(p)CdS-(n)Si-(p)Si Heterojunction transistor**
Iraqi Journal of Applied Physics 12 (1), 3, 2006 | 2006
289. **CONSTRUCTION OF ANISOTYPE CdS/Si HETEROJUNCTION AND LINEUP USING I V AND C V MEASUREMENTS**
Modern Physics Letters B 20 (28), 1833-1839, 2006 | 2006 | Cited: 2
290. **Amorphous/crystalline (nn) Si heterojunction photodetector made by Q-switched 0.532-mm laser pulses with novel technique**
Chinese Physics Letters 23 (2), 370, 2006 | 2006
291. **Fabrication and Characteristics Study of /n-Si Heterojunction**
JSTS: Journal of Semiconductor Technology and Science 6 (2), 119-123, 2006 | 2006 | Cited: 52
292. **Optoelectronic properties n: CdS: In/p-Si heterojunction photodetector**
Journal of Materials Science: Materials in Electronics 17, 819-824, 2006 | 2006 | Cited: 28
293. **Preparation and characteristics study of ZnO:(Al, Cu, I) thin films by chemical spray pyrolysis**
e-Journal of Surface Science and Nanotechnology 4, 636-639, 2006 | 2006 | Cited: 5
294. **Some critical issues on structural and photovoltaic properties of Ge/Si heterojunctionr**
materials letter 60, 2352-2356, 2006 | 2006 | Cited: 6
295. **Characteristics of bismuth trioxide film prepared by rapid thermal oxidation**
e-Journal of Surface Science and Nanotechnology 4, 563-565, 2006 | 2006 | Cited: 12
296. **Ge/Si heterojunction photodetector for 1.064 μm laser pulses**
Journal of Materials Science: Materials in Electronics 17, 643-646, 2006 | 2006 | Cited: 5
297. **PREPARATION AND PHOTOVOLTAIC PROPERTIES OF Ag2O/Si ISOTYPE HETEROJUNCTION**
surface review letters 12 (2), 299-303, 2005 | 2005 | Cited: 59
298. **Large area silicon position sensitive photo-detector: Fabrication and characterization**
CAOL, Yalta, Ukraine, 126-129, 2005 | 2005 | Cited: 3
299. **Characterization of CdS: In/Si heterojunction solar cell**
Iraq J. of Appl. Phys 1 (2), 2005 | 2005 | Cited: 5
300. **p-CdS/n-Si Anisotype Heterojunction Solar Cells With Efficiency of 6.4%**
Qatar Univ. Sci. J. 25, 31-39, 2005 | 2005 | Cited: 7
301. **Growth and characterization of Cu2O films made by rapid thermal oxidation technique**
Chinese Physics Letters 22 (11), 2977, 2005 | 2005 | Cited: 11
302. **Wideband (0.6-11) micron Angle Deposited Thin Te:S Laser Detector**
Iraqi J. of Appl. Phys. 1 (4), 3-14, 2005 | 2005
303. **On the Influence of Metal Deposition on Responsivity Peak of Cleaned Silicon Photodetector**
Engineering and Technology Journal 24 (3), 2005 | 2005
304. **p-cds/n-Si Anisotype Heterojunction solar cells wih Efficiency of 6.4%**
Qatar University, 2005 | 2005
305. **effect of operating temperature on performance of obliquely deposited Bi,Sb,Bi-Sb semimetal thin film laser detectors**
CAOL 2005 conference, Yalta, 162-164, 2005 | 2005
306. **Effect of operating temperature on performance of obliquely deposited Bi, Sb, and Bi-Sb semimetal thin film laser detectors**
Proceedings of CAOL 2005. Second International Conference on Advanced ...,, 2005 | 2005
307. **Optoelectronic characteristics of n-CdO/p-Si heterojunction prepared by spray pyrolysis**
Proceedings of the World Renewable Energy Congress, 2005 | 2005 | Cited: 2
308. **Evaluation of Laser Doping of Si from MCLT Measurement**
Baghdad Science Journal 1 (2), 2004 | 2004
309. **Study of photovoltaic characteristics of PbTe/Si heterojunctions**
Engineering & Technology Journal 23 (5), 2004 | 2004
310. **Fabrication and characteristic study of quadrant silicon laser detector**
Engineering & Technology Journal 23 (3), 2004 | 2004

311. **Electrical characteristics of Si doped with Sb by laser annealing**
Turkish Journal of Physics 27 (2), 145-152, 2003 | 2003 | Cited: 6
312. **Q-Switched Nd: YAG Laser Annealing of Phosphorus Diffused Silicon Photodiodes**
Iraqi Journal of Laser 2 (A), 1-5, 2003 | 2003
313. **Comparison between sprayed and evaporated CdS-Si heterojunction solar cell**
1st International Conference on Energy and Environment. A World of ...;, 2003 | 2003
314. **Visible Enhanced Photodetector Made by Spray Pyrolysis**
Iraqi Journal of Laser 1 (A), 7-10, 2002 | 2002
315. **Study the effect of classical and rapid thermal annealing on the electrical characteristics of p-Ge/p-Si heterojunction**
Qatar Univ. Sci. J 22, 73-80, 2002 | 2002 | Cited: 1
316. **Spatial Response Uniformity of Silicon-Based CdS and PbS Heterojunction Laser Detectors**
Iraqi Journal of Laser 1 (A), 11-13, 2002 | 2002 | Cited: 1
317. **Al-Samarai, and Omar AA Sultan Jr**
Eng. & Technology 20, 486, 2001 | 2001 | Cited: 3
318. **Feasibility of Fabrication of Heteroepitaxial Gex Si1-x/Si(111) structure by Pulsed Nd: YAG Laser**
Trkish Journal of Physics 23, 951-958, 1999 | 1999
319. **Alloying of AISI 1008 Steel Surfaces by 10ms Nd: YAG Laser Pulses**
Turkish Journal of Physics 22 (10), 983-988, 1998 | 1998 | Cited: 3
320. **P-n junction formation in germanium dipped into Al2(SO4)3 solution by laser irradiation**
Journal of Engineering & Technology 15, 82, 1996 | 1996
321. **Analysis of Al diffusion in molten germanium induced by pulsed Nd:YAG laser using SIMS technique**
Qatar Univ. Sci. Journal 6, 245, 1996 | 1996
322. **Structural studies of laser induced doped germanium using X-ray diffraction**
Turkish Journal of Physics 20, 1130, 1996 | 1996
323. **Nd: Yag laser surface alloying (L.S.A) of low carbon steel**
International Journal for the Joining of Materials 7, 119, 1995 | 1995 | Cited: 2
324. **Analysis of dopant diffusion in molten germanium induced by pulsed nd: yag laser**
Qatar University, 1995 | 1995
325. **Welding of similar and dissimilar wires with 10 ms laser pulses**
INTERNATIONAL JOURNAL FOR THE JOINING OF MATERIALS 7, 124-129, 1995 | 1995 | Cited: 3
326. **Transformation hardening of En3 steel with a Nd: YAG 10 millisecond pulsed laser**
International Congress on Applications of Lasers & Electro-Optics, 145-154, 1994 | 1994
327. **Nd: YAG laser spot welding of the thermocouple and wires**
Turkish journal of Physics 18, 734, 1994 | 1994
328. **Nd:YAG seam welding of some steel alloys and brass, J. Eng. & Technology**
Journal of Engineering & Technology 11, 45, 1992 | 1992
329. **The Combination of Laser and Nanoparticles for Enamel Protection: An In Vitro Study: Laser/NPs Protection of Enamel**
Journal of Lasers in Medical Sciences 12, e82-e82, 0 | 0
330. **STUDY THE ELECTRICAL PROPERTIES OF POROUS SILICON PREPARED BY ELECTROCHEMICAL ETCHING TECHNIQUE**
0
331. **6th International Scientific Conference on Nanotechnology, Advanced Materials and its Applications High performance Pbi2/p-Si photodetector prepared by pulsed laser ablation in ... **
ةيملعلا ءنجللا سيئر ءيطع نسجلا دبع ءلاع. د. أ يريضةتلا ءنجللا سيئر ءمظااك ...; 0 | 0
332. **THE EFFECT OF LASER HARDENING AND EMBEDDING NANOPARTICLES ON TOOTH RESISTANCE AGAINST CRIES**
0

333. **PREPARATION AND CHARACTERIZATION OF In₂O₃ THIN FILMS FOR OPTOELECTRONIC APPLICATIONS**

Surface Review and Letters 12 (4), 515-518, 0 / 0 / Cited: 54