

Murat Soylu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

958
citations

394421

19
h-index

526287

27
g-index

59
all docs

59
docs citations

59
times ranked

834
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Photoelectrical characterization of a new generation diode having GaFeO ₃ interlayer. Solar Energy Materials and Solar Cells, 2014, 124, 180-185. | 6.2 | 54 |
| 2 | Barrier characteristics of gold Schottky contacts on moderately doped n-InP based on temperature dependent I _s and C _s measurements. Microelectronic Engineering, 2009, 86, 88-95. | 2.4 | 52 |
| 3 | Analysing space charge-limited conduction in Au/n-InP Schottky diodes. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 534-538. | 2.7 | 52 |
| 4 | Analysis of barrier height inhomogeneity in Au/n-GaAs Schottky barrier diodes by Tung model. Journal of Alloys and Compounds, 2010, 506, 418-422. | 5.5 | 45 |
| 5 | Photovoltaic and interface state density properties of the Au/n-GaAs Schottky barrier solar cell. Thin Solid Films, 2011, 519, 1950-1954. | 1.8 | 45 |
| 6 | Effects of interface states and series resistance on electrical properties of Al/nanostructure CdO/p-GaAs diode. Journal of Alloys and Compounds, 2012, 541, 462-467. | 5.5 | 37 |
| 7 | Transparent CdO/n-GaN(0001) heterojunction for optoelectronic applications. Journal of Physics and Chemistry of Solids, 2015, 85, 26-33. | 4.0 | 36 |
| 8 | Ruthenium(II) Complex Based Photodiode for Organic Electronic Applications. Journal of Electronic Materials, 2018, 47, 828-833. | 2.2 | 35 |
| 9 | Solar light sensitive photodiode produced using a coumarin doped bismuth oxide composite. Materials Science in Semiconductor Processing, 2019, 90, 129-142. | 4.0 | 31 |
| 10 | Electrical and optical properties of ZnO/Si heterojunctions as a function of the Mg dopant content. Materials Science in Semiconductor Processing, 2015, 29, 76-82. | 4.0 | 27 |
| 11 | Photodiode Based on CdO Thin Films as Electron Transport Layer. Journal of Electronic Materials, 2016, 45, 5756-5763. | 2.2 | 26 |
| 12 | Controlling the properties of ZnO thin films by varying precursor concentration. Journal of Alloys and Compounds, 2018, 741, 957-968. | 5.5 | 26 |
| 13 | Influence of illumination intensity and temperature on the electrical characteristics of an Al/p-GaAs/In structure prepared by thermal evaporation. Microelectronic Engineering, 2012, 99, 50-57. | 2.4 | 25 |
| 14 | Modification of electrical properties of Al/p-Si Schottky barrier device based on 2,6-dichlorofluorescein. Journal of Applied Physics, 2011, 110, . | 2.5 | 24 |
| 15 | The electrical characterization of ZnO/GaAs heterojunction diode. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 240-245. | 2.7 | 23 |
| 16 | Optoelectrical properties of Al/p-Si/Fe:N doped ZnO/Al diodes. Thin Solid Films, 2018, 653, 236-248. | 1.8 | 23 |
| 17 | The effect of thickness of organic layer on electronic properties of Al/Rhodamine B/p-Si structure. Materials Science in Semiconductor Processing, 2011, 14, 212-218. | 4.0 | 22 |
| 18 | The effects of annealing on Au/pyronine-B/MD n-InP Schottky structure. Journal of Physics and Chemistry of Solids, 2010, 71, 1398-1403. | 4.0 | 21 |

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|----|---|-----|-----------|
| 19 | Controlling of conduction mechanism and electronic parameters of silicon-metal junction by mixed Methylene Blue/2,7-dichlorofluorescein. <i>Microelectronics Reliability</i> , 2013, 53, 1901-1906. | 1.7 | 21 |
| 20 | Effect of calcination and carbon incorporation on NiO nanowires for photodiode performance. <i>Microelectronic Engineering</i> , 2018, 202, 51-59. | 2.4 | 19 |
| 21 | Analysis of photovoltaic behavior of Si-based junctions containing novel graphene oxide/nickel(II) phthalocyanine composite films. <i>Microelectronic Engineering</i> , 2016, 154, 53-61. | 2.4 | 18 |
| 22 | Study of optical and electrical assessments of the quaternary MgZnSnO system containing different Mg content. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4235-4245. | 2.2 | 17 |
| 23 | Controlling of electronic parameters of GaAs Schottky diode by poly(3,4-ethylenedioxythiophene)-block-poly(ethylene glycol) organic interlayer. <i>Microelectronic Engineering</i> , 2011, 88, 867-871. | 2.4 | 15 |
| 24 | On the energy distribution of interface states and their relaxation time profiles in Al/pentacene/p-GaAs heterojunction diode. <i>Journal of Applied Physics</i> , 2012, 111, 034508. | 2.5 | 15 |
| 25 | Barrier height enhancement and temperature dependence of the electrical characteristics of Al Schottky contacts on p-GaAs with organic Rhodamine B interfacial layer. <i>Superlattices and Microstructures</i> , 2012, 52, 470-483. | 3.1 | 14 |
| 26 | Composite CuFe _{1-x} Sn _x O ₂ / p-type silicon photodiodes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 110-118. | 3.9 | 14 |
| 27 | Dye based photodiodes for solar energy applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1. | 2.3 | 14 |
| 28 | Properties of PEDOT:PEG/ZnO/p-Si heterojunction diode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 785-790. | 3.5 | 13 |
| 29 | Electrical characteristics of Au/Pyronine-B/moderately doped n-type InP Schottky structures in a wide temperature range. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5105-5111. | 5.5 | 12 |
| 30 | Rectifying structure with high voltage operation based on CuBO ₂ as an UV photocatalyst. <i>Journal of Alloys and Compounds</i> , 2014, 617, 602-608. | 5.5 | 12 |
| 31 | Analysis of photoconductive mechanisms of organic-on-inorganic photodiodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 284-290. | 2.7 | 12 |
| 32 | Solution molarity dependent structural and optical properties of CdO nanostructured thin films. <i>Optik</i> , 2020, 216, 164865. | 2.9 | 12 |
| 33 | Properties of sol-gel synthesized n-ZnO/n-GaN (0001) isotype heterojunction. <i>Materials Chemistry and Physics</i> , 2014, 143, 495-502. | 4.0 | 11 |
| 34 | CdO thin films based on the annealing temperature differences prepared by sol-gel method and their heterojunction devices. <i>Materials Research Express</i> , 2017, 4, 126307. | 1.6 | 11 |
| 35 | Fabrication and electrical characteristics of Perylene-3,4,9,10-tetracarboxylic dianhydride/p-GaAs diode structure. <i>Microelectronics Reliability</i> , 2012, 52, 1355-1361. | 1.7 | 10 |
| 36 | Correlations for coumarin additive on the electrical and photocatalytic activity of TiO ₂ modified by thiourea. <i>Microelectronic Engineering</i> , 2016, 154, 26-37. | 2.4 | 10 |

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| 37 | The validity of Kohlrausch law for the photocurrent transient and the role of N ₂ /Ar flow ratio in photoconductivity of sputtered CoZnO. <i>Journal of Alloys and Compounds</i> , 2017, 712, 152-163. | 5.5 | 10 |
| 38 | A novel photodiode based on Ruthenium(II) complex containing polydentate pyridine as photocatalyst. <i>Microelectronics Reliability</i> , 2015, 55, 2685-2688. | 1.7 | 9 |
| 39 | Fabrication and characterization of light-sensing device based on transparent ZnO thin film prepared by sol-gel. <i>Optik</i> , 2016, 127, 8479-8486. | 2.9 | 9 |
| 40 | Preparation of Tungsten Trioxide Nanorods by Hydrothermal Route: <i>n</i> -Tungsten Trioxide Nanorods/ <i>p</i> -Silicon $\hat{=}$ <i>n</i> Junction. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 327-333. | 0.5 | 9 |
| 41 | A Temperature Sensor Based on Al/ <i>p</i> -Si/CuCdO ₂ /Al Diode for Low Temperature Applications. <i>Journal of Electronic Materials</i> , 2020, 49, 2317-2325. | 2.2 | 8 |
| 42 | ZnO nanostructured thin films: Structural and optical properties controlled by ruthenium content. <i>Superlattices and Microstructures</i> , 2014, 67, 144-155. | 3.1 | 7 |
| 43 | CdS Quantum Dots and Dye Co-Sensitized Nanorods TiO ₂ /TiO ₂ Solar Cell. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 662-665. | 0.5 | 7 |
| 44 | Fabrication and characterization of transparent MEH-PPV/ <i>n</i> -GaN (0001) heterojunction devices. <i>Optical Materials</i> , 2012, 34, 878-883. | 3.6 | 6 |
| 45 | Dopant-induced photoresponsivity in coumarin-dye-sensitized nanowire NiO/ <i>p</i> -Si heterojunction. <i>Materials Science in Semiconductor Processing</i> , 2020, 106, 104784. | 4.0 | 6 |
| 46 | Low leakage current of CdSe quantum dots/Si composite structure and its performance for photodiode and solar cell. <i>Ceramics International</i> , 2016, 42, 14949-14955. | 4.8 | 5 |
| 47 | The effect of molar ratio on the photo-generated charge activity of ZnO $\hat{=}$ CdO composites. <i>European Physical Journal Plus</i> , 2020, 135, 1. | 2.6 | 5 |
| 48 | GaAs heterojunction devices with MDMO-PPV thin films. <i>Vacuum</i> , 2014, 106, 33-38. | 3.5 | 4 |
| 49 | The photovoltaic application and optics of ZnO $\hat{=}$ CdO and ZnO $\hat{=}$ NiO nanocomposite binary system. , 2022, 165, 207190. | | 4 |
| 50 | Temperature-dependent model for hole transport mechanism in a poly(1,8-diaminocarbazole)/Si structure. <i>Philosophical Magazine</i> , 2016, 96, 2600-2614. | 1.6 | 3 |
| 51 | Low-Temperature Electrical Characteristics of Si-Based Device with New Tetrakis NiPc-SNS Active Layer. <i>Journal of Electronic Materials</i> , 2016, 45, 411-417. | 2.2 | 3 |
| 52 | <i>n</i> -GaAs diode with photoresponsivity based on 3-aminorhodanine thin films. <i>Applied Optics</i> , 2018, 57, 6788. | 1.8 | 3 |
| 53 | Improvement of Efficiency in CdS Quantum Dots Sensitized Solar Cells. <i>Acta Physica Polonica A</i> , 2013, 124, 750-754. | 0.5 | 2 |
| 54 | Thermally activated conductivity of Si hybrid structure based on ZnPc thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1. | 2.3 | 2 |

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|----|--|-----|-----------|
| 55 | Surface coating of ZnO nanoparticles onto 6H-SiC(0001): Temperature-dependent rectifying behavior. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 78, 85-91. | 2.7 | 1 |
| 56 | Investigating the coumarin capability in chalcogenide $20\text{Ti}_2\text{Se}\hat{e}80\text{Pr}_2\text{Se}_3$ system based photovoltaics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 202, 123-130. | 3.9 | 1 |
| 57 | Effects of Different TiO_2 Solution Compositions on Efficiency of Quantum Dot Solar Cell (QDSC) by Sol-Gel Method. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 392-396. | 0.5 | 0 |
| 58 | EFFECT OF DOPING THIOUREA IN CdO THIN FILMS FOR ELECTRONIC APPLICATIONS. <i>Surface Review and Letters</i> , 2022, 29, . | 1.1 | 0 |