

Akshay Moudgil

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

282
citations

1040056

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1199594

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19
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339
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Vancomycin functionalized WO ₃ thin film-based impedance sensor for efficient capture and highly selective detection of Gram-positive bacteria. Biosensors and Bioelectronics, 2019, 136, 23-30. | 10.1 | 44 |
| 2 | MoS ₂ /TiO ₂ Hybrid Nanostructure-Based Field-Effect Transistor for Highly Sensitive, Selective, and Rapid Detection of Gram-Positive Bacteria. Advanced Materials Technologies, 2020, 5, 1900615. | 5.8 | 36 |
| 3 | Optically Pumped Broadband Terahertz Modulator Based on Nanostructured PtSe ₂ Thin Films. Advanced Optical Materials, 2020, 8, 1901714. | 7.3 | 34 |
| 4 | S-Layer Protein for Resistive Switching and Flexible Nonvolatile Memory Device. ACS Applied Materials & Interfaces, 2018, 10, 4866-4873. | 8.0 | 29 |
| 5 | High speed efficient ultraviolet photodetector based on 500-nm width multiple WO ₃ nanowires. Applied Physics Letters, 2018, 113, . | 3.3 | 26 |
| 6 | In ₂ O ₃ /TiO ₂ Heterostructure for Highly Responsive Low-Noise Ultraviolet Photodetector. IEEE Transactions on Electron Devices, 2020, 67, 166-172. | 3.0 | 23 |
| 7 | Azurin-TiO ₂ hybrid nanostructure field effect transistor for efficient ultraviolet detection. Nanotechnology, 2019, 30, 495205. | 2.6 | 21 |
| 8 | In ₂ Se ₃ /Silicon-on-Insulator Heterojunction Phototransistor for Low Noise Dual-Band Detection. IEEE Electron Device Letters, 2021, 42, 755-758. | 3.9 | 13 |
| 9 | Metalloprotein based scalable field effect transistor with enhanced switching behaviour. Sensors and Actuators B: Chemical, 2017, 246, 363-369. | 7.8 | 12 |
| 10 | Organic field effect transistors based on self-assembling core-modified peptidic polymers. Molecular Systems Design and Engineering, 2020, 5, 847-855. | 3.4 | 10 |
| 11 | Highly Sensitive Tungsten Oxide Thin Film-Based Field-Effect Transistor for Real-Time Monitoring of Dissolved Ammonia in Human Plasma. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 8 |
| 12 | MEMS based piezoelectric sensor system for virus detection. , 2015, , . | | 6 |
| 13 | MEMS based design and analysis of a biosensor for detection of hepatitis virus. , 2015, , . | | 5 |
| 14 | Highly Efficient Nanostructured PtSe ₂ FET for Toxic Gas Detection. , 2020, , . | | 5 |
| 15 | Polaron Delocalization Dependence of the Conductivity and the Seebeck Coefficient in Doped Conjugated Polymers. Journal of Physical Chemistry B, 2022, 126, 2073-2085. | 2.6 | 5 |
| 16 | Modelling of Phosphorus and Gallium doped Nano-GNRFET based gas sensor. , 2015, , . | | 3 |
| 17 | Azurin based flexible device for resistive switching memory application. , 2017, , . | | 2 |
| 18 | Modelling of a nano-sensor for N ₂ /O ₂ gas adsorption on Gallium and Phosphorus doped GNRFET. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 19 | Modelling of a sensor for gas adsorption on P and Ga doped GNR/FET., 2015, , . | | 0 |