

# Adarsh Nigam

## List of Publications by Year in descending order

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Version: 2024-02-01

10  
papers

220  
citations

1307594

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h-index

1372567

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g-index

10  
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docs citations

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times ranked

237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mercury (II) Ion Detection Using AgNWs-MoS <sub>2</sub> Nanocomposite on GaN HEMT for IoT-Enabled Smart Water Quality Analysis. IEEE Internet of Things Journal, 2022, 9, 14317-14324.	8.7	7
2	1T and 2H heterophase MoS <sub>2</sub> for enhanced sensitivity of GaN transistor-based mercury ions sensor. Nanotechnology, 2022, 33, 265501.	2.6	4
3	Development of semiconductor based heavy metal ion sensors for water analysis: A review. Sensors and Actuators A: Physical, 2021, 330, 112879.	4.1	29
4	Real time detection of Hg <sup>2+</sup> ions using MoS <sub>2</sub> functionalized AlGaIn/GaN high electron mobility transistor for water quality monitoring. Sensors and Actuators B: Chemical, 2020, 309, 127832.	7.8	40
5	Detection of cadmium ions By-g-C <sub>3</sub> N <sub>4</sub> functionalization on AlGaIn/GaN high electron mobility transistor. AIP Conference Proceedings, 2020, , .	0.4	3
6	Ultrasensitive Detection of Mercury Ions Under UV Illumination of MoS <sub>2</sub> Functionalized AlGaIn/GaN Transistor. IEEE Transactions on Electron Devices, 2020, 67, 5693-5700.	3.0	8
7	Sensitive and Selective Detection of Pb <sup>2+</sup> Ions Using 2,5-Dimercapto-1,3,4-Thiadiazole Functionalized AlGaIn/GaN High Electron Mobility Transistor. IEEE Electron Device Letters, 2019, 40, 1976-1979.	3.9	16
8	PAN/(PAN-b-PMMA) derived nanoporous carbon nanofibers loaded on ZnO nanostructures for hydrogen detection. Sensors and Actuators B: Chemical, 2019, 299, 126980.	7.8	22
9	MPA-GSH Functionalized AlGaIn/GaN High-Electron Mobility Transistor-Based Sensor for Cadmium Ion Detection. IEEE Sensors Journal, 2019, 19, 2863-2870.	4.7	32
10	Effect of self-heating on electrical characteristics of AlGaIn/ GaN HEMT on Si (111) substrate. AIP Advances, 2017, 7, .	1.3	59