Neeraj Goel

List of Publications by Year
in descending order

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24	1,221	623574	752573
papers	citations	14 h-index	20 g-index

24	24	24	1746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	UV-Activated MoS₂ Based Fast and Reversible NO₂ Sensor at Room Temperature. ACS Sensors, 2017, 2, 1744-1752.	4.0	346
2	Ultrahigh Performance of Self-Powered Î²-Ga₂O₃ Thin Film Solar-Blind Photodetector Grown on Cost-Effective Si Substrate Using High-Temperature Seed Layer. ACS Photonics, 2018, 5, 2391-2401.	3.2	255
3	Transition metal dichalcogenides-based flexible gas sensors. Sensors and Actuators A: Physical, 2020, 303, 111875.	2.0	125
4	Growth of MoS₂â€“MoO₃ Hybrid Microflowers via Controlled Vapor Transport Process for Efficient Gas Sensing at Room Temperature. Advanced Materials Interfaces, 2018, 5, 1800071.	1.9	93
5	High performance NO2 sensor using MoS2 nanowires network. Applied Physics Letters, 2018, 112, .	1.5	87
6	Recent advances in ultrathin 2D hexagonal boron nitride based gas sensors. Journal of Materials Chemistry C, 2021, 9, 1537-1549.	2.7	50
7	Wafer-scale synthesis of a uniform film of few-layer MoS₂ on GaN for 2D heterojunction ultraviolet photodetector. Journal Physics D: Applied Physics, 2018, 51, 374003.	1.3	49
8	A high-performance hydrogen sensor based on a reverse-biased MoS₂/GaN heterojunction. Nanotechnology, 2019, 30, 314001.	1.3	42
9	Real time detection of Hg2+ ions using MoS2 functionalized AlGaN/GaN high electron mobility transistor for water quality monitoring. Sensors and Actuators B: Chemical, 2020, 309, 127832.	4.0	40
10	High-performance photodetector based on hybrid of MoS₂ and reduced graphene oxide. Nanotechnology, 2018, 29, 404001.	1.3	25
11	Determination of band alignment at two-dimensional MoS2/Si van der Waals heterojunction. Journal of Applied Physics, 2018, 123, .	1.1	19
12	Boosting Sensing Performance of Vacancy-Containing Vertically Aligned MoS₂ Using rGO Particles. IEEE Sensors Journal, 2019, 19, 10214-10220.	2.4	18
13	Enhanced Carrier Density in a MoS₂/Si Heterojunction-Based Photodetector by Inverse Auger Process. IEEE Transactions on Electron Devices, 2018, 65, 4149-4154.	1.6	15
14	MoS₂-PVP Nanocomposites Decorated ZnO Microsheets for Efficient Hydrogen Detection. IEEE Sensors Journal, 2021, 21, 8878-8885.	2.4	15
15	Plasmonic Au Nanoparticles Sensitized MoSâ„ for Bifunctional NOâ„ and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197.	2.4	12
16	Efficient NO₂ sensing performance of a low-cost nanostructured sensor derived from molybdenite concentrate. Green Chemistry, 2020, 22, 6981-6991.	4.6	10
17	Visualization of band offsets at few-layer MoS₂/Ge heterojunction. Nanotechnology, 2021, 32, 375711.	1.3	8
18	2D Materials for Terahertz Application. Nano Express, 2021, 2, 031001.	1.2	5

#	Article	IF	Citations
19	Enhanced sensing response with complete recovery of MoS2 sensor under photoexcitation. AIP Conference Proceedings, 2018, , .	0.3	4
20	NO2 sensing at room temperature using vertically aligned MoS2 flakes network. AIP Conference Proceedings, 2018, , .	0.3	1
21	Ultraviolet photodetector based on chemical vapor deposition grown MoO3 microplates. , 2019, , .		1
22	Scalable Growth of High-Quality MoS2 Film by Magnetron Sputtering: Application for NO2 Gas Sensing. , 2019, , .		1
23	High-performance ultraviolet detector employing out-of-plane rGO/MoS₂ PN heterostructure. , 2018, , .		0
24	Growth of Large-Scale Î±-MoO3 on SiO2 and Its Uses for Efficient Hydrogen Sensing Application. , 2019, , .		0