Nagabandi Jayababu

List of Publications by Year
in descending order

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Version: 2024-02-01

31	954	471371	477173
papers	citations	17	29
		h-index	g-index

31	31	31	1090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved gas sensing performance of Al doped ZnO/CuO nanocomposite based ammonia gas sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 227, 61-67.	1.7	197
2	Enhancement of the isopropanol gas sensing performance of SnO₂/ZnO core/shell nanocomposites. Journal of Materials Chemistry C, 2017, 5, 2662-2668.	2.7	109
3	NiO decorated CeO₂ nanostructures as room temperature isopropanol gas sensors. RSC Advances, 2019, 9, 13765-13775.	1.7	60
4	Self-powered transparent and flexible touchpad based on triboelectricity towards artificial intelligence. Nano Energy, 2020, 78, 105325.	8.2	59
5	Synthesis of ZnO/NiO nanocomposites for the rapid detection of ammonia at room temperature. Materials Science in Semiconductor Processing, 2019, 102, 104591.	1.9	58
6	Semi shield driven p-n heterostructures and their role in enhancing the room temperature ethanol gas sensing performance of NiO/SnO2 nanocomposites. Ceramics International, 2019, 45, 15134-15142.	2.3	48
7	CuCo LDHs Coated CuCoTe Honeycombâ€Like Nanosheets as a Novel Anode Material for Hybrid Supercapacitors. Small, 2021, 17, e2102369.	5.2	38
8	Preparation of NiO decorated CNT/ZnO core-shell hybrid nanocomposites with the aid of ultrasonication for enhancing the performance of hybrid supercapacitors. Ultrasonics Sonochemistry, 2021, 71, 105374.	3.8	36
9	Novel Conductive Ag-Decorated NiFe Mixed Metal Telluride Hierarchical Nanorods for High-Performance Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 19938-19949.	4.0	34
10	Facile synthesis of SnO2-Fe2O3 core-shell nanostructures and their 2-methoxyethanol gas sensing characteristics. Journal of Alloys and Compounds, 2019, 780, 523-533.	2.8	32
11	ZnO nanorods@conductive carbon black nanocomposite based flexible integrated system for energy conversion and storage through triboelectric nanogenerator and supercapacitor. Nano Energy, 2021, 82, 105726.	8.2	32
12	Ultrasensitive sensor based on Y2O3-In2O3 nanocomposites for the detection of methanol at room temperature. Ceramics International, 2019, 45, 21497-21504.	2.3	29
13	Boron Nitride Nanotube-Based Contact Electrification-Assisted Piezoelectric Nanogenerator as a Kinematic Sensor for Detecting the Flexionâ€“Extension Motion of a Robot Finger. ACS Energy Letters, 2020, 5, 1577-1585.	8.8	29
14	Co/Zn bimetal organic framework elliptical nanosheets on flexible conductive fabric for energy harvesting and environmental monitoring via triboelectricity. Nano Energy, 2021, 89, 106355.	8.2	26
15	Room temperature ammonia sensing of Î±-MoO3 nanorods grown on glass substrates. Thin Solid Films, 2021, 722, 138575.	0.8	22
16	Synthesis of Y2O3-ZnO nanocomposites for the enhancement of room temperature 2-methoxyethanol gas sensing performance. Journal of Alloys and Compounds, 2019, 798, 438-445.	2.8	20
17	Clay-assisted hierarchical growth of metal-telluride nanostructures as an anode material for hybrid supercapacitors. Applied Clay Science, 2022, 225, 106539.	2.6	19
18	Development of CdO/ZnO nanocomposites for the rapid detection and discrimination of n-butanol. Surfaces and Interfaces, 2020, 20, 100586.	1.5	15

#	Article	IF	Citations
19	Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors. Advanced Materials Technologies, 2021, 6, .	3.0	15
20	Rational design of cobalt-iron bimetal layered hydroxide on conductive fabric as a flexible battery-type electrode for enhancing the performance of hybrid supercapacitor. Journal of Alloys and Compounds, 2022, 904, 164082.	2.8	14
21	Performance-Enhanced Triboelectric Nanogenerator Based on the Double-Layered Electrode Effect. Polymers, 2020, 12, 2854.	2.0	12
22	Ultrasensitive resistivity-based ethanol sensor based on the use of CeO2-Fe2O3 core-shell microclusters. Mikrochimica Acta, 2019, 186, 712.	2.5	10
23	Chromium substitution effect on the structural, optical, electrical and magnetic properties of Nickel ferrite nano particles; synthesized by an environmentally benign auto combustion method. Materials Today: Proceedings, 2016, 3, 3666-3672.	0.9	9
24	Influence of annealing temperature on structural and dielectric properties of e-beam evaporated WO3 thin films. Materials Today: Proceedings, 2016, 3, 4199-4204.	0.9	8
25	Facile Fabrication of Double-Layered Electrodes for a Self-Powered Energy Conversion and Storage System. Nanomaterials, 2020, 10, 2380.	1.9	6
26	Hybridized generator: Freely movable ferromagnetic nanoparticle-embedded balls for a self-powered tilt and direction sensor. Extreme Mechanics Letters, 2020, 41, 101063.	2.0	5
27	Room temperature ethanol gas sensing performance of CeO2â" In2O3 heterostructured nanocomposites. AIP Conference Proceedings, 2019, , .	0.3	4
28	Antibacterial and Soluble Paper-Based Skin-Attachable Human Motion Sensor Using Triboelectricity. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	4
29	Structural and morphological studies on Au doped In2O3 thin films by electron beam evaporation technique for solar cell applications. Materials Today: Proceedings, 2016, 3, 4182-4186.	0.9	2
30	Enhanced room temperature ammonia gas sensing performance of ZnO-Cr2O3 heterostructured nanocomposites. AIP Conference Proceedings, 2019, , .	0.3	2
31	Smart Sensors: Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	30	