

# Sandeep Goud Surya

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,535  
citations

331670

21  
h-index

315739

38  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1831  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic field-effect transistor-based flexible sensors. <i>Chemical Society Reviews</i> , 2020, 49, 3423-3460.	38.1	230
2	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4155-4162.	8.0	113
3	Green and low-cost synthesis of zinc oxide nanoparticles and their application in transistor-based carbon monoxide sensing. <i>RSC Advances</i> , 2020, 10, 13532-13542.	3.6	89
4	Organic field effect transistors (OFETs) in environmental sensing and health monitoring: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 27-36.	11.4	84
5	Selective Toluene Detection with Mo <sub>2</sub> CT <sub>x</sub> MXene at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57218-57227.	8.0	83
6	Realization of an Ultrasensitive and Highly Selective OFET NO <sub>2</sub> Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrin@MOF. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18748-18760.	8.0	75
7	A paper-based inkjet-printed PEDOT:PSS/ZnO sol-gel hydrazine sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127539.	7.8	72
8	Fully Integrated Indium Gallium Zinc Oxide NO <sub>2</sub> Gas Detector. <i>ACS Sensors</i> , 2020, 5, 984-993.	7.8	72
9	A chitosan gold nanoparticles molecularly imprinted polymer based ciprofloxacin sensor. <i>RSC Advances</i> , 2020, 10, 12823-12832.	3.6	70
10	A silver nanoparticle-anchored UiO-66(Zr) metal-organic framework (MOF)-based capacitive H <sub>2</sub> S gas sensor. <i>CrystEngComm</i> , 2019, 21, 7303-7312.	2.6	59
11	OFET based explosive sensors using diketopyrrolopyrrole and metal organic framework composite active channel material. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 114-122.	7.8	58
12	Graphene oxide based soil moisture microsensor for in situ agriculture applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1660-1669.	7.8	57
13	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	1.8	49
14	A Comparative Study of Interdigitated Electrode and Quartz Crystal Microbalance Transduction Techniques for Metal-Organic Framework-Based Acetone Sensors. <i>Sensors</i> , 2018, 18, 3898.	3.8	41
15	An in-field integrated capacitive sensor for rapid detection and quantification of soil moisture. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128542.	7.8	38
16	A label-free aptasensor FET based on Au nanoparticle decorated Co <sub>3</sub> O <sub>4</sub> nanorods and a SWCNT layer for detection of cardiac troponin T protein. <i>Journal of Materials Chemistry B</i> , 2020, 8, 18-26.	5.8	33
17	Metal-organic frameworks for advanced transducer based gas sensors: review and perspectives. <i>Nanoscale Advances</i> , 2022, 4, 697-732.	4.6	33
18	IoT Enabled, Leaf Wetness Sensor on the Flexible Substrates for In-Situ Plant Disease Management. <i>IEEE Sensors Journal</i> , 2021, 21, 19481-19491.	4.7	31

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19	H <sub>2</sub> S detection using low-cost SnO <sub>2</sub> nano-particle Bi-layer OFETs. Sensors and Actuators B: Chemical, 2016, 235, 378-385.	7.8	26
20	Trianglamine hydrochloride crystals for a highly sensitive and selective humidity sensor. Sensors and Actuators B: Chemical, 2019, 294, 40-47.	7.8	22
21	A highly selective electron affinity facilitated H <sub>2</sub> S sensor: the marriage of tris(keto-hydrazone) and an organic field-effect transistor. Materials Horizons, 2021, 8, 525-537.	12.2	22
22	Highly Selective Self-Powered Organic-Inorganic Hybrid Heterojunction of a Halide Perovskite and InGaZnO NO <sub>2</sub> Sensor. ACS Applied Materials & Interfaces, 2021, 13, 40460-40470.	8.0	20
23	Fully Integrated Organic Field-Effect Transistor Platform to Detect and to Quantify NO <sub>2</sub> Gas. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000086.	2.4	18
24	Characterization and detection of cardiac Troponin-T protein by using aptamer mediated biofunctionalization of ZnO thin-film transistor. Applied Surface Science, 2019, 466, 874-881.	6.1	15
25	Comparison among different algorithms in classifying explosives using OFETs. Sensors and Actuators B: Chemical, 2013, 176, 46-51.	7.8	13
26	Ultra-sensitive gas phase detection of 2,4,6-trinitrotoluene by non-covalently functionalized graphene field effect transistors. Analyst, The, 2020, 145, 917-928.	3.5	13
27	Towards a low cost fully integrated IGZO TFT NO <sub>2</sub> detection and quantification: A solution-processed approach. Sensors and Actuators B: Chemical, 2021, 331, 129450.	7.8	12
28	Sensitivity Improvement of Medical Dosimeters Using Solution Processed TIPS-Pentacene FETs. IEEE Sensors Journal, 2019, 19, 4428-4434.	4.7	11
29	KAUSTat: A Wireless, Wearable, Open-Source Potentiostat for Electrochemical Measurements. , 2019, , .		11
30	Hybrid Pattern Recognition for Rapid Explosive Sensing With Comprehensive Analysis. IEEE Sensors Journal, 2021, 21, 8011-8019.	4.7	11
31	A Spectroscopy and Microscopy Study of Parylene-C OFETs for Explosive Sensing. IEEE Sensors Journal, 2018, 18, 1364-1372.	4.7	10
32	A Multi-Bit Fully Integrated Thin-Film Transistor NO <sub>2</sub> Gas Detector at Room Temperature. , 2020, 4, 1-4.		6
33	Semi-transparent graphite films growth on Ni and their double-sided polymer-free transfer. Scientific Reports, 2020, 10, 14703.	3.3	6
34	A Solution Processed Amorphous InGaZnO Thin-Film Transistor-Based Dosimeter for Gamma-Ray Detection and Its Reliability. IEEE Sensors Journal, 2021, 21, 10667-10674.	4.7	6
35	A non-volatile resistive memory effect in 2,2',6,6'-tetraphenyl-dipyranilidene thin films as observed in field-effect transistors and by conductive atomic force microscopy. RSC Advances, 2017, 7, 3336-3342.	3.6	5
36	Tris(Keto-Hydrazone): A Fully Integrated Highly Stable and Exceptionally Sensitive H <sub>2</sub> S Capacitive Sensor. Advanced Electronic Materials, 2021, 7, 2000853.	5.1	5

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37	Highly Sensitive $\Delta R/R$ Measurement System for Nano-electro-Mechanical Cantilever Based Bio-sensors. , 2011, , .		4
38	A Low-Power Instrumentation System for Nano-Electro-Mechanical-Sensors for Environmental and Healthcare Applications. Journal of Low Power Electronics, 2012, 8, 346-352.	0.6	4
39	A low-cost, ultra sensitive hand-held system for explosive detection using piezo-resistive micro-cantilevers. , 2011, , .		3
40	Mechanical modeling and sensitivity evaluation of an electrodynamic MEMS microsensor. , 2015, , .		1
41	Nanophotonic Crystal Waveguide with Embedded Piezoresistor on MEMS Cantilever for Sensing Application. IEEE Sensors Journal, 2021, , 1-1.	4.7	1
42	Thikness dependence investigation of the mutual inductance link in concentric planar transformers. , 2016, , .		0
43	Organic field effect transistors for explosive and radiation dosimetry applications. , 2016, , .		0
44	OFET based $H_2$ gas sensing among reducing and mining gases using green synthesis $SnO_2$ . , 2016, , .		0
45	Molybdenum trioxide ( $MoO_3$ ) Capacitive Soil Moisture Microsensor for In-situ Agriculture Applications: Measurement Studies and Temperature Effects. , 2019, , .		0
46	Evaluation and Pattern Recognition of Polyethylene Dioxythiophene:Polystyrene Sulfonate Composite Based Chemiresistor to Assess Fruit Ripeness. Sensor Letters, 2019, 17, 516-522.	0.4	0