Prasanta Kumar Guha

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structurally modified V ₂ O ₅ based extrinsic pseudocapacitor. Nanotechnology, 2022, 33, 255402.	2.6	3
2	Ultra-selective tin oxide-based chemiresistive gas sensor employing signal transform and machine learning techniques. Analytica Chimica Acta, 2022, 1217, 339996.	5.4	19
3	First Principles Study of Noble Metal (Single Atom and Cluster) Decorated Reduced Graphene Oxide for Efficient Formaldehyde Adsorption. IEEE Sensors Journal, 2021, 21, 2544-2551.	4.7	8
4	RGO/Ni ₂ O ₃ Heterojunction-Based Reusable, Flexible Device for Cr(VI) Ion Detection in Water. IEEE Transactions on Electron Devices, 2021, 68, 780-785.	3.0	7
5	Selective Detection of VOCs With WO ₃ Nanoplates-Based Single Chemiresistive Sensor Device Using Machine Learning Algorithms. IEEE Sensors Journal, 2021, 21, 5771-5778.	4.7	26
6	Selective Discrimination of VOCs Applying Gas Sensing Kinetic Analysis over a Metal Oxide-Based Chemiresistive Gas Sensor. ACS Sensors, 2021, 6, 2218-2224.	7.8	78
7	Temporal dynamics of photonic stop-band in volatile solvent infiltrated opals. Optical Materials, 2021, 117, 111146.	3.6	2
8	Substitutional Doping of MoS ₂ for Superior Gas-Sensing Applications: A Proof of Concept. ACS Sensors, 2021, 6, 3398-3408.	7.8	41
9	Exfoliated MoS2 based Humidity Sensing. Advanced Materials Proceedings, 2021, 1, 176-179.	0.2	4
10	CMOS-based resistive and FET devices for smart gas sensors. , 2020, , 125-141.		0
11	Graphene Oxide Wrapped Hollow SnO ₂ Sphere for Room Temperature Formaldehyde Sensing: An Insight Through Computational Analysis & Experimental Study. IEEE Transactions on Electron Devices, 2020, 67, 3767-3774.	3.0	15
12	Voltage-controlled NiO/ZnO p–n heterojunction diode: a new approach towards selective VOC sensing. Microsystems and Nanoengineering, 2020, 6, 35.	7.0	36
13	Single resistive sensor for selective detection of multiple VOCs employing SnO2 hollowspheres and machine learning algorithm: A proof of concept. Sensors and Actuators B: Chemical, 2020, 321, 128484.	7.8	66
14	Fe _x Ni _(1-x) O/NiO Heterojunction-Based Selective VOC Sensor Device by Using Temperature Tunability. IEEE Sensors Journal, 2020, 20, 7503-7508.	4.7	1
15	Liquid Exfoliated NiO Nanosheets for Trace Level Detection of Acetone Vapors. IEEE Transactions on Electron Devices, 2019, 66, 3568-3572.	3.0	7
16	Quantum capacitance tuned flexible supercapacitor by UV-ozone treated defect engineered reduced graphene oxide forest. Nanotechnology, 2019, 30, 435404.	2.6	10
17	Air Pollution Monitoring Using Near Room Temperature Resistive Gas Sensors: A Review. IEEE Transactions on Electron Devices, 2019, 66, 3254-3264.	3.0	70
18	ZnO/\$gamma\$ -Fe ₂ O ₃ Heterostructure Toward High-Performance Acetone Sensing. IEEE Sensors Journal, 2019, 19, 8576-8582.	4.7	19

#	Article	IF	CITATIONS
19	Platinum Nanoparticles Decorated Graphene Oxide Based Resistive Device for Enhanced Formaldehyde Sensing: First-Principle Study and its Experimental Correlation. IEEE Transactions on Electron Devices, 2019, 66, 1942-1949.	3.0	15
20	ZnO/MoS ₂ -Based Enhanced Humidity Sensor Prototype With Android App Interface for Mobile Platform. IEEE Sensors Journal, 2019, 19, 3993-3999.	4.7	25
21	Exploring Formaldehyde Sensing Capability of Noble Metal Decorated Reduced Graphene Oxide through First Principle Approach. , 2019, , .		1
22	Flexible Large MoS ₂ Film Based Ammonia Sensor. , 2018, 2, 1-4.		9
23	Pt decorated MoS ₂ nanoflakes for ultrasensitive resistive humidity sensor. Nanotechnology, 2018, 29, 115504.	2.6	66
24	Humidity Sensing Properties of Coexfoliated Heterogeneous WS ₂ /WSe ₂ Nanohybrids. IEEE Nanotechnology Magazine, 2018, 17, 582-589.	2.0	15
25	Enhanced Gas Sensing Properties of Liquid-Processed Semiconducting Tungsten Chalcogenide (WX _i , X = O and S) Based Hybrid Nanomaterials. IEEE Sensors Journal, 2018, 18, 3494-3501.	4.7	25
26	Ammonia vapour sensing properties of <i>in situ</i> polymerized conducting PANI-nanofiber/WS ₂ nanosheet composites. New Journal of Chemistry, 2018, 42, 735-745.	2.8	64
27	Selective Reduction of Oxygen Functional Groups to Improve the Response Characteristics of Graphene Oxide-Based Formaldehyde Sensor Device: A First Principle Study. IEEE Transactions on Electron Devices, 2018, , 1-8.	3.0	8
28	Photon-Assisted Ultra-Selective Formaldehyde Sensing by Defect Induced NiO-Based Resistive Sensor. IEEE Sensors Journal, 2018, 18, 5656-5661.	4.7	17
29	Coral-Like Cu _x Ni _(1â^'x) O-Based Resistive Sensor for Humidity and VOC Detection. IEEE Sensors Journal, 2018, 18, 6078-6084.	4.7	13
30	An effective liquid-phase exfoliation approach to fabricate tungsten disulfide into ultrathin two-dimensional semiconducting nanosheets. Journal of Materials Science, 2017, 52, 7256-7268.	3.7	53
31	Sensitivity improvement of a dual axis thermal accelerometer with modified cavity structure. Microsystem Technologies, 2017, 23, 5357-5363.	2.0	6
32	A review of micromachined thermal accelerometers. Journal of Micromechanics and Microengineering, 2017, 27, 123002.	2.6	46
33	Role of vacancy sites and UV-ozone treatment on few layered MoS ₂ nanoflakes for toxic gas detection. Nanotechnology, 2017, 28, 435502.	2.6	35
34	Synthesis of Cu _x Ni _(1â^'x) O coral-like nanostructures and their application in the design of a reusable toxic heavy metal ion sensor based on an adsorption-mediated electrochemical technique. Environmental Science: Nano, 2017, 4, 191-202.	4.3	20
35	Simultaneous Angular Rate Estimates Extracted From a Single Axisymmetric Resonator. IEEE Sensors Journal, 2017, 17, 7460-7469.	4.7	9
36	WS ₂ /GO Nanohybrids for Enhanced Relative Humidity Sensing at Room Temperature. IEEE Sensors Journal, 2017, 17, 7340-7347.	4.7	30

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37	Liquid exfoliated pristine WS ₂ nanosheets for ultrasensitive and highly stable chemiresistive humidity sensors. Nanotechnology, 2016, 27, 475503.	2.6	100
38	Reduced Graphene Oxide-Based Piezoelectric Nanogenerator With Water Excitation. IEEE Nanotechnology Magazine, 2016, 15, 268-273.	2.0	14
39	Pt-functionalized reduced graphene oxide for excellent hydrogen sensing at room temperature. Applied Physics Letters, 2015, 107, .	3.3	36
40	Enhanced ammonia sensing at room temperature with reduced graphene oxide/tin oxide hybrid films. RSC Advances, 2015, 5, 50165-50173.	3.6	77
41	Hierarchical nanostructured WO ₃ –SnO ₂ for selective sensing of volatile organic compounds. Nanoscale, 2015, 7, 12460-12473.	5.6	179
42	Humidity Sensor Based on High Proton Conductivity of Graphene Oxide. IEEE Nanotechnology Magazine, 2015, 14, 931-937.	2.0	52
43	SOI CMOS Platform for Gas Sensing Applications. ECS Transactions, 2009, 22, 281-292.	0.5	0
44	SOI CMOS-Based Smart Gas Sensor System for Ubiquitous Sensor Networks. ETRI Journal, 2008, 30, 516-525.	2.0	22