

# Vivek Pachauri

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

665  
citations

567144

15  
h-index

580701

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biologically sensitive field-effect transistors: from ISFETs to NanofETs. <i>Essays in Biochemistry</i> , 2016, 60, 81-90.	2.1	96
2	PEDOT:PSS organic electrochemical transistor arrays for extracellular electrophysiological sensing of cardiac cells. <i>Biosensors and Bioelectronics</i> , 2017, 93, 132-138.	5.3	56
3	Site-Specific Self-Assembled Liquid-Gated ZnO Nanowire Transistors for Sensing Applications. <i>Small</i> , 2010, 6, 589-594.	5.2	46
4	Reduced graphene oxide biosensor platform for the detection of NT-proBNP biomarker in its clinical range. <i>Biosensors and Bioelectronics</i> , 2019, 126, 136-142.	5.3	43
5	Silane Deposition via Gas-Phase Evaporation and High-Resolution Surface Characterization of the Ultrathin Siloxane Coatings. <i>Langmuir</i> , 2018, 34, 10217-10229.	1.6	42
6	Novel ZnO nanostructures over gold and silver nanoparticle assemblies. <i>Chemical Physics Letters</i> , 2006, 423, 240-246.	1.2	40
7	Top-Down Fabricated Silicon Nanowire Arrays for Field-Effect Detection of Prostate-Specific Antigen. <i>ACS Omega</i> , 2018, 3, 8471-8482.	1.6	31
8	On the Use of Scalable NanoISFET Arrays of Silicon with Highly Reproducible Sensor Performance for Biosensor Applications. <i>ACS Omega</i> , 2016, 1, 84-92.	1.6	30
9	Chemically exfoliated large-area two-dimensional flakes of molybdenum disulfide for device applications. <i>APL Materials</i> , 2013, 1, .	2.2	21
10	Field-effect-based chemical sensing using nanowire-nanoparticle hybrids: The ion-sensitive metal-semiconductor field-effect transistor. <i>Applied Physics Letters</i> , 2013, 102, 023501.	1.5	20
11	ScFv-modified graphene-coated IDE-arrays for "label-free"™ screening of cardiovascular disease biomarkers in physiological saline. <i>Biosensors and Bioelectronics</i> , 2018, 102, 574-581.	5.3	20
12	Process Variability in Top-Down Fabrication of Silicon Nanowire-Based Biosensor Arrays. <i>Sensors</i> , 2021, 21, 5153.	2.1	20
13	Point-of-care-ready nanoscale ISFET arrays for sub-picomolar detection of cytokines in cell cultures. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6777-6788.	1.9	19
14	Delineating charge and capacitance transduction in system-integrated graphene-based BioFETs used as aptasensors for malaria detection. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114219.	5.3	17
15	Front-End-of-Line Integration of Graphene Oxide for Graphene-Based Electrical Platforms. <i>Advanced Materials Technologies</i> , 2018, 3, 1700318.	3.0	16
16	DJ-1 (Park7) affects the gut microbiome, metabolites and the development of innate lymphoid cells (ILCs). <i>Scientific Reports</i> , 2020, 10, 16131.	1.6	16
17	Reduced graphene-oxide transducers for biosensing applications beyond the Debye-screening limit. <i>Biosensors and Bioelectronics</i> , 2019, 130, 352-359.	5.3	15
18	The spatial self-organization within pluripotent stem cell colonies is continued in detaching aggregates. <i>Biomaterials</i> , 2022, 282, 121389.	5.7	15

#	ARTICLE	IF	CITATIONS
19	Photothermal effects induced by surface plasmon resonance at graphene/gold nanointerfaces: A multiscale modeling study. <i>Biosensors and Bioelectronics</i> , 2019, 126, 470-477.	5.3	14
20	Template-free self-assembly of hierarchical ZnO structures from nanoscale building blocks. <i>Chemical Physics Letters</i> , 2010, 498, 317-322.	1.2	11
21	Routine fabrication of reduced graphene oxide microarray devices via all solution processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 968-974.	0.8	10
22	Wafer-scale Nanoimprint Lithography Process Towards Complementary Silicon Nanowire Field-Effect Transistors for Biosensor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800234.	0.8	10
23	Silicon Nanowire Field-Effect Biosensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2018, , 27-57.	0.5	9
24	Microelectrode Combinations of Gold and Polypyrrole Enable Highly Stable Two-electrode Electrochemical Impedance Spectroscopy Measurements under Turbulent Flow Conditions. <i>Electroanalysis</i> , 2021, 33, 197-207.	1.5	9
25	Reduced graphene oxide-based sensing platform for electric cell-substrate impedance sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1404-1409.	0.8	8
26	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1335-1341.	0.8	7
27	Realization of a PEDOT:PSS/Graphene Oxide On-Chip Pseudo-Reference Electrode for Integrated ISFETs. <i>Sensors</i> , 2022, 22, 2999.	2.1	6
28	Graphite oxide electrical sensors are able to distinguish single nucleotide polymorphisms in physiological buffers. <i>FlatChem</i> , 2018, 7, 1-9.	2.8	5
29	Wafer-scale fabrication of microelectrode arrays on optically transparent polymer foils for the integration of flexible nanoscale devices. <i>Flexible and Printed Electronics</i> , 2018, 3, 044001.	1.5	4
30	Comprehensive Understanding of Silicon-Nanowire Field-Effect Transistor Impedimetric Readout for Biomolecular Sensing. <i>Micromachines</i> , 2021, 12, 39.	1.4	4
31	Nano Security: From Nano-Electronics to Secure Systems. , 2021, , .		3
32	Electrical SPR biosensor with thermal annealed graphene oxide: Concept of highly sensitive biomolecule detection. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100152.	0.9	1
33	Nanowires: Small 4/2010. <i>Small</i> , 2010, 6, NA-NA.	5.2	0
34	Routine fabrication of reduced graphene oxide microarray devices via all solution processing (Phys.) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.8	0