

Ashok Mulchandani

List of Publications by Year in descending order

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357
papers

20,494
citations

8732

75
h-index

18075

120
g-index

361
all docs

361
docs citations

361
times ranked

19342
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of pristine graphene-like behaving rGO thin film: Insights into what really matters. Carbon, 2022, 186, 437-451.	5.4	13
2	Bio-sensitized solar cells built from renewable carbon sources. Materials Today Energy, 2022, 23, 100910.	2.5	7
3	Multiplexed Anodic Stripping Voltammetry Detection of Heavy Metals in Water Using Nanocomposites Modified Screen-Printed Electrodes Integrated With a 3D-Printed Flow Cell. Frontiers in Chemistry, 2022, 10, 815805.	1.8	7
4	Graphene compared to fluorine-doped tin oxide as transparent conductor in ZnO dye-sensitized solar cells. Journal of Environmental Chemical Engineering, 2022, 10, 107551.	3.3	13
5	The evolution of metal size and partitioning throughout the wastewater treatment train. Journal of Hazardous Materials, 2021, 402, 123761.	6.5	2
6	An origami electrical biosensor for multiplexed analyte detection in body fluids. Biosensors and Bioelectronics, 2021, 171, 112721.	5.3	33
7	Development of an Interdigitated Electrode-Based Disposable Enzyme Sensor Strip for Glycated Albumin Measurement. Molecules, 2021, 26, 734.	1.7	18
8	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. Applied Physics Reviews, 2021, 8, .	5.5	10
9	Nano-FET-enabled biosensors: Materials perspective and recent advances in North America. Biosensors and Bioelectronics, 2021, 176, 112941.	5.3	28
10	Label-free chemiresistor biosensor based on reduced graphene oxide and M13 bacteriophage for detection of coliforms. Analytica Chimica Acta, 2021, 1150, 338232.	2.6	19
11	Electrodeposition of ZnO nanorods on graphene: tuning the topography for application as tin oxide-free electron transport layer. Journal of Applied Electrochemistry, 2021, 51, 977-989.	1.5	2
12	Laser-etched grooves for rapid fluid delivery for a paper-based chemiresistive biosensor. Biosensors and Bioelectronics, 2021, 180, 113090.	5.3	12
13	Toward Rapid Detection of Trace Lead and Cadmium by Anodic Stripping Voltammetry in Complex Wastewater Streams. ACS ES&T Engineering, 2021, 1, 1509-1516.	3.7	9
14	Chemiresistor sensor based on ion-imprinted polymer (IIP)-functionalized rGO for Cd(II) ions in water. Sensors and Actuators B: Chemical, 2021, 346, 130474.	4.0	22
15	Current status, advances, challenges and perspectives on biosensors for COVID-19 diagnosis in resource-limited settings. Sensors and Actuators Reports, 2021, 3, 100025.	2.3	24
16	Linker-Free Magnetite-Decorated Gold Nanoparticles (Fe ₃ O ₄ -Au): Synthesis, Characterization, and Application for Electrochemical Detection of Arsenic (III). Sensors, 2021, 21, 883.	2.1	19
17	Electrochemical Impedance Spectroscopy (EIS): Principles, Construction, and Biosensing Applications. Sensors, 2021, 21, 6578.	2.1	360
18	Effect of Al ₂ O ₃ Passive Layer on Stability and Doping of MoS ₂ Field-Effect Transistor (FET) Biosensors. Biosensors, 2021, 11, 514.	2.3	6

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19	Detection of a secreted protein biomarker for citrus Huanglongbing using a single-walled carbon nanotubes-based chemiresistive biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111766.	5.3	44
20	Non-lytic M13 phage-based highly sensitive impedimetric cytosensor for detection of coliforms. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111794.	5.3	52
21	Structure: Function Studies of the Cytosolic, Mo- and NAD ⁺ -Dependent Formate Dehydrogenase from <i>Cupriavidus necator</i> . <i>Inorganics</i> , 2020, 8, 41.	1.2	7
22	Bismuth Subcarbonate Decorated Reduced Graphene Oxide Nanocomposite for the Sensitive Stripping Voltammetry Analysis of Pb(II) and Cd(II) in Water. <i>Sensors</i> , 2020, 20, 6085.	2.1	12
23	Hydrogels: From Controlled Release to a New Bait Delivery for Insect Pest Management. <i>Journal of Economic Entomology</i> , 2020, 113, 2061-2068.	0.8	24
24	Non-Carbon 2D Materials-Based Field-Effect Transistor Biosensors: Recent Advances, Challenges, and Future Perspectives. <i>Sensors</i> , 2020, 20, 4811.	2.1	16
25	Asymptomatic Diagnosis of Huanglongbing Disease Using Metalloporphyrin Functionalized Single-Walled Carbon Nanotubes Sensor Arrays. <i>Frontiers in Chemistry</i> , 2020, 8, 362.	1.8	5
26	Biodegradable alginate hydrogel bait delivery system effectively controls high-density populations of Argentine ant in commercial citrus. <i>Journal of Pest Science</i> , 2020, 93, 1031-1042.	1.9	21
27	Gas Biosensor Arrays Based on Single-Stranded DNA-Functionalized Single-Walled Carbon Nanotubes for the Detection of Volatile Organic Compound Biomarkers Released by Huanglongbing Disease-Infected Citrus Trees. <i>Sensors</i> , 2019, 19, 4795.	2.1	20
28	Field effect transistor based on proton conductive metal organic framework (CuBTC). <i>Journal Physics D: Applied Physics</i> , 2019, 52, 335105.	1.3	27
29	Synthesis of Formate from CO ₂ Gas Catalyzed by an O ₂ -Tolerant NAD-Dependent Formate Dehydrogenase and Glucose Dehydrogenase. <i>Biochemistry</i> , 2019, 58, 1861-1868.	1.2	36
30	Electrochemical Biosensor for Rapid Detection of Viable Bacteria and Antibiotic Screening. <i>Journal of Analysis and Testing</i> , 2019, 3, 117-122.	2.5	13
31	MoS ₂ -Based Optoelectronic Gas Sensor with Sub-parts-per-billion Limit of NO ₂ Gas Detection. <i>ACS Nano</i> , 2019, 13, 3196-3205.	7.3	349
32	Functionalized Carbon Nanotubes for Detection of Volatile Organic Pollutant. , 2019, , .		2
33	A paper-based chemiresistive biosensor employing single-walled carbon nanotubes for low-cost, point-of-care detection. <i>Biosensors and Bioelectronics</i> , 2019, 130, 367-373.	5.3	54
34	Graphene nanogap electrodes in electrical biosensing. <i>Biosensors and Bioelectronics</i> , 2019, 126, 838-844.	5.3	14
35	MoS ₂ -graphene heterostructures as efficient organic compounds sensing 2D materials. <i>Carbon</i> , 2019, 142, 504-512.	5.4	41
36	Affinity sensor for haemoglobin A1c based on single-walled carbon nanotube field-effect transistor and fructosyl amino acid binding protein. <i>Biosensors and Bioelectronics</i> , 2019, 129, 254-259.	5.3	29

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37	Electrooxidized Monolayer CVD Graphene Film Transducer for Ultrasensitive Impedimetric DNA Biosensor. <i>Electroanalysis</i> , 2018, 30, 1791-1800.	1.5	22
38	Development of a glucose sensor employing quick and easy modification method with mediator for altering electron acceptor preference. <i>Bioelectrochemistry</i> , 2018, 121, 185-190.	2.4	47
39	Calixarene-functionalized single-walled carbon nanotubes for sensitive detection of volatile amines. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 115-122.	4.0	20
40	Point-of-Use Nanobiosensor for Detection of Dengue Virus NS1 Antigen in Adult <i>Aedes aegypti</i> : A Potential Tool for Improved Dengue Surveillance. <i>Analytical Chemistry</i> , 2018, 90, 679-684.	3.2	33
41	Highly active spore biocatalyst by self-assembly of co-expressed anchoring scaffoldin and multimeric enzyme. <i>Biotechnology and Bioengineering</i> , 2018, 115, 557-564.	1.7	18
42	Characterisation of the heterojunction microstructure for electrodeposited vertical ZnO nanorods on CVD-graphene. <i>Materials Research Express</i> , 2018, 5, 085031.	0.8	6
43	Lectin- and Saccharide-Functionalized Nano-Chemiresistor Arrays for Detection and Identification of Pathogenic Bacteria Infection. <i>Biosensors</i> , 2018, 8, 63.	2.3	9
44	Salivary Detection of Dengue Virus NS1 Protein with a Label-Free Immunosensor for Early Dengue Diagnosis. <i>Sensors</i> , 2018, 18, 2641.	2.1	23
45	Single-walled Carbon Nanotube-Calixarene Based Chemiresistor for Volatile Organic Compounds. <i>Electroanalysis</i> , 2018, 30, 2077-2084.	1.5	16
46	Tuning Coating Thickness of Iron Tetraphenyl Porphyrin on Single Walled Carbon Nanotubes by Annealing: Effect on Benzene Sensing Performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700956.	0.8	9
47	A heparin-functionalized carbon nanotube-based affinity biosensor for dengue virus. <i>Biosensors and Bioelectronics</i> , 2017, 91, 811-816.	5.3	82
48	Monitoring of microbial cell viability using nanostructured electrodes modified with Graphene/Alumina nanocomposite. <i>Biosensors and Bioelectronics</i> , 2017, 91, 857-862.	5.3	31
49	Highly sensitive detection of Cr(VI) by reduced graphene oxide chemiresistor and 1,4-dithiothreitol functionalized Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 265-272.	4.0	38
50	Graphene based biosensors for healthcare. <i>Journal of Materials Research</i> , 2017, 32, 2905-2929.	1.2	45
51	Development of an alginate hydrogel to deliver aqueous bait for pest ant management. <i>Pest Management Science</i> , 2017, 73, 2028-2038.	1.7	31
52	Spore-displayed enzyme cascade with tunable stoichiometry. <i>Biotechnology Progress</i> , 2017, 33, 383-389.	1.3	17
53	Cover Image, Volume 73, Issue 10. <i>Pest Management Science</i> , 2017, 73, i-i.	1.7	0
54	Raman spectra of twisted CVD bilayer graphene. <i>Carbon</i> , 2017, 123, 302-306.	5.4	50

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55	Carbon allotropes as sensors for environmental monitoring. <i>Current Opinion in Electrochemistry</i> , 2017, 3, 106-113.	2.5	48
56	Graphene-Based Biosensors and Their Applications in Biomedical and Environmental Monitoring. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017, , 261-290.	0.5	11
57	Efficient reduction of CO ₂ by the molybdenum-containing formate dehydrogenase from <i>Cupriavidus necator</i> (<i>Ralstonia eutropha</i>). <i>Journal of Biological Chemistry</i> , 2017, 292, 16872-16879.	1.6	88
58	Potassium Iodide-Functionalized Polyaniline Nanothin Film Chemiresistor for Ultrasensitive Ozone Gas Sensing. <i>Polymers</i> , 2017, 9, 80.	2.0	7
59	A Pathogen Secreted Protein as a Detection Marker for Citrus Huanglongbing. <i>Frontiers in Microbiology</i> , 2017, 8, 2041.	1.5	40
60	Platinum nanoparticles-single-walled carbon nanotubes hybrid based chemiresistive sensor array for myoglobin detection. <i>Materials Research Express</i> , 2016, 3, 035006.	0.8	3
61	High performance dendrimer functionalized single-walled carbon nanotubes field effect transistor biosensor for protein detection. <i>Applied Physics Letters</i> , 2016, 109, 243504.	1.5	13
62	Electrochemical properties of seamless three-dimensional carbon nanotubes-grown graphene modified with horseradish peroxidase. <i>Bioelectrochemistry</i> , 2016, 111, 57-61.	2.4	16
63	An electrochemically reduced graphene oxide chemiresistive sensor for sensitive detection of Hg ²⁺ ion in water samples. <i>Journal of Hazardous Materials</i> , 2016, 320, 226-233.	6.5	65
64	Engineering Soluble Human Paraoxonase 2 for Quorum Quenching. <i>ACS Chemical Biology</i> , 2016, 11, 3122-3131.	1.6	17
65	Thermal conductivity of graphene with defects induced by electron beam irradiation. <i>Nanoscale</i> , 2016, 8, 14608-14616.	2.8	187
66	An oligonucleotide-functionalized carbon nanotube chemiresistor for sensitive detection of mercury in saliva. <i>Analyst</i> , The, 2016, 141, 2756-2760.	1.7	22
67	Carbon nanotubes and graphene nano field-effect transistor-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 222-232.	5.8	128
68	Carbon nanomaterial-based electrochemical biosensors for label-free sensing of environmental pollutants. <i>Chemosphere</i> , 2016, 143, 85-98.	4.2	170
69	Biofunctionalized Nanostructured Zirconia for Biomedical Application: A Smart Approach for Oral Cancer Detection. <i>Advanced Science</i> , 2015, 2, 1500048.	5.6	111
70	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <i>Frontiers in Chemistry</i> , 2015, 3, 38.	1.8	67
71	Chemiresistive sensor based on polythiophene-modified single-walled carbon nanotubes for detection of NO ₂ . <i>Modern Physics Letters B</i> , 2015, 29, 1540046.	1.0	23
72	Bioelectrochemistry of Heme Peptide at Seamless Three-Dimensional Carbon Nanotubes/Graphene Hybrid Films for Highly Sensitive Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3647-3654.	4.0	39

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73	Label-Free Electrical Immunosensor for Highly Sensitive and Specific Detection of Microcystin-LR in Water Samples. <i>Environmental Science & Technology</i> , 2015, 49, 9256-9263.	4.6	56
74	A miniature chemiresistor sensor for carbon dioxide. <i>Analytica Chimica Acta</i> , 2015, 874, 54-58.	2.6	43
75	Conducting polyaniline nanowire electrode junction. <i>Modern Physics Letters B</i> , 2015, 29, 1540036.	1.0	3
76	Volatile Organic Compounds. <i>Nanostructure Science and Technology</i> , 2015, , 1023-1046.	0.1	1
77	Fe nanoparticle tailored poly(N-methyl pyrrole) nanowire matrix: a CHEMFET study from the perspective of discrimination among electron donating analytes. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 195301.	1.3	5
78	Glucose sensor based on conducting polyaniline nanowire electrode junction. <i>Modern Physics Letters B</i> , 2015, 29, 1540045.	1.0	2
79	Methanol tolerant, high performance, noble metal free electrocatalyst developed from polyaniline and ferric chloride for the oxygen reduction reaction. <i>RSC Advances</i> , 2015, 5, 92648-92655.	1.7	15
80	Molecular imprinted polymer functionalized carbon nanotube sensors for detection of saccharides. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	13
81	Electrochemically Functionalized Seamless Three-Dimensional Graphene-Carbon Nanotube Hybrid for Direct Electron Transfer of Glucose Oxidase and Bioelectrocatalysis. <i>Langmuir</i> , 2015, 31, 13054-13061.	1.6	61
82	Single-walled carbon nanotubes based chemiresistive genosensor for label-free detection of human rheumatic heart disease. <i>Applied Physics Letters</i> , 2014, 105, 213701.	1.5	12
83	Conducting polymer functionalized single-walled carbon nanotube based chemiresistive biosensor for the detection of human cardiac myoglobin. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
84	Primary amine-functionalized polyaniline nanothin film sensor for detecting formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 255-259.	4.0	54
85	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubesâ€Graphene Hybrid Electrode. <i>Electroanalysis</i> , 2014, 26, 103-108.	1.5	76
86	Simple and label-free electrochemical impedance Amelogenin gene hybridization biosensing based on reduced graphene oxide. <i>Biosensors and Bioelectronics</i> , 2014, 58, 145-152.	5.3	76
87	Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. <i>Talanta</i> , 2014, 123, 109-114.	2.9	65
88	Single-Walled Carbon Nanotubeâ€Poly(porphyrin) Hybrid for Volatile Organic Compounds Detection. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1602-1610.	1.5	51
89	Quantitative assessment of in vivo HIV protease activity using genetically engineered QDâ€based FRET probes. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1082-1087.	1.7	12
90	Pt nanoparticles-chemical vapor deposited graphene composite based immunosensor for the detection of human cardiac troponin I. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 363-370.	4.0	43

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91	Selective Discrimination among Benzene, Toluene, and Xylene: Probing Metalloporphyrin-Functionalized Single-Walled Carbon Nanotube-Based Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24034-24041.	1.5	43
92	Poly(3-aminophenylboronic acid)-functionalized carbon nanotubes-based chemiresistive sensors for detection of sugars. <i>Analyst, The</i> , 2014, 139, 3077-3082.	1.7	38
93	Ultrasensitive Electrochemical Immunosensor Based on Pt Nanoparticle-Graphene Composite. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 971-983.	1.4	10
94	Bactericidal activity of elastin-like polypeptide biopolymer with polyhistidine domain and silver. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 66-70.	2.5	11
95	A simple colorimetric DNA detection by target-induced hybridization chain reaction for isothermal signal amplification. <i>Analytical Biochemistry</i> , 2014, 457, 19-23.	1.1	62
96	Affinity chemiresistor sensor for sugars. <i>Talanta</i> , 2014, 128, 473-479.	2.9	6
97	Protein functionalized Pt nanoparticles-conducting polymer nanocomposite film: Characterization and immunosensor application. <i>Polymer</i> , 2014, 55, 4003-4011.	1.8	16
98	Nanothin Polyaniline Film for Highly Sensitive Chemiresistive Gas Sensing. <i>Electroanalysis</i> , 2013, 25, 1439-1445.	1.5	27
99	Poly(o-toluidine) Nanowires Based Organic Field Effect Transistors: A Study on Influence of Anionic Size of Dopants and SWNTs as a Dopant. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15414-15420.	1.5	3
100	Electronic Detection of MicroRNA at Attomolar Level with High Specificity. <i>Analytical Chemistry</i> , 2013, 85, 8061-8064.	3.2	98
101	Use of Flow Cytometry for Rapid, Quantitative Detection of Poliovirus-Infected Cells via TAT Peptide-Delivered Molecular Beacons. <i>Applied and Environmental Microbiology</i> , 2013, 79, 696-700.	1.4	9
102	Platinum nanoflowers decorated three-dimensional graphene-carbon nanotubes hybrid with enhanced electrocatalytic activity. <i>Journal of Power Sources</i> , 2013, 223, 23-29.	4.0	49
103	Mediator-free microfluidics biosensor based on titania-zirconia nanocomposite for urea detection. <i>RSC Advances</i> , 2013, 3, 228-235.	1.7	64
104	Organic field-effect transistors: predictive control on performance parameters. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495110.	1.3	7
105	Iron tetraphenyl porphyrin functionalized single wall carbon nanotubes for the detection of benzene. <i>Materials Letters</i> , 2013, 96, 38-41.	1.3	22
106	Hexavalent chromium removal mechanism using conducting polymers. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 99-106.	6.5	102
107	Hybrid tin oxide-SWNT nanostructures based gas sensor. <i>Electrochimica Acta</i> , 2013, 92, 484-490.	2.6	57
108	Carbon Nanotubes-Based Label-Free Affinity Sensors for Environmental Monitoring. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1011-1025.	1.4	21

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109	Graphene and carbon nanotube-graphene hybrid nanomaterials for human embryonic stem cell culture. <i>Materials Letters</i> , 2013, 92, 122-125.	1.3	44
110	Simultaneous degradation of organophosphate and organochlorine pesticides by <i>Sphingobium japonicum</i> UT26 with surface-displayed organophosphorus hydrolase. <i>Biodegradation</i> , 2013, 24, 295-303.	1.5	33
111	Label-free chemiresistive biosensor for mercury (II) based on single-walled carbon nanotubes and structure-switching DNA. <i>Applied Physics Letters</i> , 2013, 102, 13701.	1.5	40
112	A chemiresistive sensor based on conducting polymer/SWNT composite nanofibrillar matrix-effect of 100 MeV O ¹⁶⁺ ion irradiation on gas sensing properties. <i>Smart Materials and Structures</i> , 2013, 22, 035004.	1.8	12
113	Detection of RNA Viruses: Current Technologies and Future Perspectives. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2013, 23, 125-137.	0.4	22
114	Single-Walled Carbon Nanotubes Based Chemicapacitive Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1517-1520.	0.9	3
115	Controlled functionalization of single-walled carbon nanotubes for enhanced ammonia sensing: a comparative study. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 355305.	1.3	33
116	Selective recognition of xylene isomers using ZnO-SWNTs hybrid gas sensors. <i>Analyst</i> , 2012, 137, 2549.	1.7	13
117	Tuning Electrical and Optoelectronic Properties of Single Cadmium Telluride Nanoribbon. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9202-9208.	1.5	15
118	Graphene Nanomesh As Highly Sensitive Chemiresistor Gas Sensor. <i>Analytical Chemistry</i> , 2012, 84, 8171-8178.	3.2	226
119	Porphyrim-Functionalized Single-Walled Carbon Nanotube Chemiresistive Sensor Arrays for VOCs. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3845-3850.	1.5	125
120	Hybrid ZnO/SWNT Nanostructures Based Gas Sensor. <i>Electroanalysis</i> , 2012, 24, 1613-1620.	1.5	20
121	Bactericidal and ammonia removal activity of silver ion-exchanged zeolite. <i>Bioresource Technology</i> , 2012, 117, 86-91.	4.8	56
122	Application of displacement principle for detecting heavy metal ions and EDTA using microcantilevers. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 203-208.	4.0	21
123	Electronic-nose for detecting environmental pollutants: signal processing and analog front-end design. <i>Analog Integrated Circuits and Signal Processing</i> , 2012, 70, 15-32.	0.9	21
124	Single-walled carbon nanotubes chemiresistor aptasensors for small molecules: picomolar level detection of adenosine triphosphate. <i>Chemical Communications</i> , 2011, 47, 3793.	2.2	36
125	Phylogenetic Diversity and Metabolic Potential of Activated Sludge Microbial Communities in Full-Scale Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2011, 45, 7408-7415.	4.6	166
126	A quantum-dot based protein module for in vivo monitoring of protease activity through fluorescence resonance energy transfer. <i>Chemical Communications</i> , 2011, 47, 5259.	2.2	44

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127	Sensitive Detection of Elemental Mercury Vapor by Gold-Nanoparticle-Decorated Carbon Nanotube Sensors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13927-13931.	1.5	59
128	Estimation of Enzyme Kinetic Parameters of Cell Surface-displayed Organophosphorus Hydrolase and Construction of a Biosensing System for Organophosphorus Compounds. <i>Analytical Sciences</i> , 2011, 27, 823-826.	0.8	12
129	Anchorage of GFP fusion on the cell surface of <i>Pseudomonas putida</i> . <i>Biodegradation</i> , 2011, 22, 51-61.	1.5	8
130	Microbial Biosensors for Organophosphate Pesticides. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 687-699.	1.4	41
131	Single Conducting Polymer Nanowire Based Sequence-specific, Base-pair Length Dependant Label-free DNA Sensor. <i>Electroanalysis</i> , 2011, 23, 371-379.	1.5	38
132	Selective and Rapid Room Temperature Detection of H ₂ S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , 2011, 23, 2623-2628.	1.5	32
133	Gas Sensing Mechanism of Gold Nanoparticles Decorated Single-walled Carbon Nanotubes. <i>Electroanalysis</i> , 2011, 23, 2687-2692.	1.5	43
134	Label-free, chemiresistor immunosensor for stress biomarker cortisol in saliva. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4382-4386.	5.3	94
135	Conducting polymer nanowires-based label-free biosensors. <i>Current Opinion in Biotechnology</i> , 2011, 22, 502-508.	3.3	71
136	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. <i>Carbon</i> , 2011, 49, 3789-3795.	5.4	35
137	Room temperature detection of NO ₂ using InSb nanowire. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	32
138	ZnS nanocrystals decorated single-walled carbon nanotube based chemiresistive label-free DNA sensor. <i>Applied Physics Letters</i> , 2011, 98, 13701.	1.5	26
139	Photo-induced charge transport in ZnS nanocrystals decorated single walled carbon nanotube field-effect transistor. <i>Applied Physics Letters</i> , 2011, 99, 173110.	1.5	13
140	Systematic engineering of phytochelatin synthesis and arsenic transport for enhanced arsenic accumulation in <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2010, 105, 780-785.	1.7	32
141	Organophosphorus compound detection on a cell chip with yeast coexpressing hydrolase and eGFP. <i>Biotechnology Journal</i> , 2010, 5, 515-519.	1.8	10
142	Conducting polymer nanowire-based chemiresistive biosensor for the detection of bacterial spores. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2309-2312.	5.3	59
143	Carbon nanotubes-based chemiresistive immunosensor for small molecules: Detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1297-1301.	5.3	76
144	Improvement in organophosphorus hydrolase activity of cell surface-engineered yeast strain using Flo1p anchor system. <i>Biotechnology Letters</i> , 2010, 32, 655-659.	1.1	25

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145	Electrical and Sensing Properties of Single-Walled Carbon Nanotubes Network: Effect of Alignment and Selective Breakdown. <i>Electroanalysis</i> , 2010, 22, 99-105.	1.5	37
146	Conducting polymer 1-dimensional nanostructures for FET sensors. <i>Thin Solid Films</i> , 2010, 519, 964-973.	0.8	40
147	Carbon nanotubes-based chemiresistive biosensors for detection of microorganisms. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1437-1441.	5.3	123
148	Cotranslocation of Methyl Parathion Hydrolase to the Periplasm and of Organophosphorus Hydrolase to the Cell Surface of <i>Escherichia coli</i> by the Tat Pathway and Ice Nucleation Protein Display System. <i>Applied and Environmental Microbiology</i> , 2010, 76, 434-440.	1.4	34
149	Enzyme mediated synthesis of phytochelatin-capped CdS nanocrystals. <i>Applied Physics Letters</i> , 2010, 97, 123703.	1.5	15
150	Conducting polymer nanowires for chemiresistive and FET-based bio/chemical sensors. <i>Journal of Materials Chemistry</i> , 2010, 20, 3131.	6.7	138
151	Electrical and gas sensing properties of polyaniline functionalized single-walled carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 075502.	1.3	57
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