Sunil K Arya

List of Publications by Year
in descending order

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65 papers	5,026 citations	87843 38 h-index	106281 65 g-index
66 all docs	66 docs citations	66 times ranked	7164 citing authors

#	Article	IF	Citations
1	Recent advances in ZnO nanostructures and thin films for biosensor applications: Review. Analytica Chimica Acta, 2012, 737, 1-21.	2.6	513
2	Cholesterol biosensor based on rf sputtered zinc oxide nanoporous thin film. Applied Physics Letters, 2007, 91, .	1.5	239
3	Recent advances in cortisol sensing technologies for point-of-care application. Biosensors and Bioelectronics, 2014, 53, 499-512.	5.3	238
4	Recent advances in cholesterol biosensor. Biosensors and Bioelectronics, 2008, 23, 1083-1100.	5.3	236
5	Lung Cancer and Its Early Detection Using Biomarker-Based Biosensors. Chemical Reviews, 2011, 111, 6783-6809.	23.0	236
6	Application of Thiolated Gold Nanoparticles for the Enhancement of Glucose Oxidase Activity. Langmuir, 2007, 23, 3333-3337.	1.6	227
7	Recent advances in self-assembled monolayers based biomolecular electronic devices. Biosensors and Bioelectronics, 2009, 24, 2810-2817.	5.3	199
8	Enrichment, detection and clinical significance of circulating tumor cells. Lab on A Chip, 2013, 13, 1995.	3.1	153
9	Chemically immobilized T4-bacteriophage for specific Escherichia coli detection using surface plasmon resonance. Analyst, The, 2011, 136, 486-492.	1.7	141
10	Polyanilineâ€“carbon nanotube composite film for cholesterol biosensor. Analytical Biochemistry, 2008, 383, 194-199.	1.1	139
11	Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. Biosensors and Bioelectronics, 2018, 102, 106-112.	5.3	119
12	Preparation of polyaniline/multiwalled carbon nanotube composite by novel electrophoretic route. Carbon, 2008, 46, 1727-1735.	5.4	118
13	Nanoporous cerium oxide thin film for glucose biosensor. Biosensors and Bioelectronics, 2009, 24, 2040-2045.	5.3	116
14	Breast tumor cell detection at single cell resolution using an electrochemical impedance technique. Lab on A Chip, 2012, 12, 2362.	3.1	114
15	Bacteriophage tailspike proteins as molecular probes for sensitive and selective bacterial detection. Biosensors and Bioelectronics, 2010, 26, 131-138.	5.3	113
16	Cholesterol biosensor based on electrophoretically deposited conducting polymer film derived from nano-structured polyaniline colloidal suspension. Analytica Chimica Acta, 2007, 602, 244-251.	2.6	112
17	Cholesterol biosensor based on N-(2-aminoethyl)-3-aminopropyl-trimethoxysilane self-assembled monolayer. Analytical Biochemistry, 2007, 363, 210-218.	1.1	103
18	Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. Biosensors and Bioelectronics, 2011, 28, 166-173.	5.3	100

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19	Polyaniline Langmuirâ^'Blodgett Film Based Cholesterol Biosensor. Langmuir, 2007, 23, 13188-13192.	1.6	98
20	Dithiobis(succinimidyl propionate) modified gold microarray electrode based electrochemical immunosensor for ultrasensitive detection of cortisol. Biosensors and Bioelectronics, 2010, 25, 2296-2301.	5.3	96
21	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. Talanta, 2006, 69, 918-926.	2.9	81
22	Nucleic acid sensor for M. tuberculosis detection based on surface plasmon resonance. Analyst, The, 2008, 133, 1587.	1.7	81
23	Poly-(3-hexylthiophene) self-assembled monolayer based cholesterol biosensor using surface plasmon resonance technique. Biosensors and Bioelectronics, 2007, 22, 2516-2524.	5.3	78
24	Recent Advances in Enhancement Strategies for Electrochemical ELISA-Based Immunoassays for Cancer Biomarker Detection. Sensors, 2018, 18, 2010.	2.1	75
25	Advances in materials for room temperature hydrogen sensors. Analyst, The, 2012, 137, 2743.	1.7	74
26	A realtime and continuous assessment of cortisol in ISF using electrochemical impedance spectroscopy. Sensors and Actuators A: Physical, 2011, 172, 154-160.	2.0	73
27	Mediator free highly sensitive polyanilineâ€“gold hybrid nanocomposite based immunosensor for prostate-specific antigen (PSA) detection. Journal of Materials Chemistry, 2012, 22, 14763.	6.7	73
28	Antibody functionalized interdigitated Î¼-electrode (IDÎ¼E) based impedimetric cortisol biosensor. Analyst, The, 2010, 135, 1941.	1.7	66
29	Cholesterol Biosensor Based on Amino-Undecanethiol Self-Assembled Monolayer Using Surface Plasmon Resonance Technique. Langmuir, 2007, 23, 7398-7403.	1.6	57
30	Detection of tumor necrosis factor (TNF-Î±) in cell culture medium with label free electrochemical impedance spectroscopy. Sensors and Actuators B: Chemical, 2013, 181, 494-500.	4.0	57
31	Sensitive and selective Affimer-functionalised interdigitated electrode-based capacitive biosensor for Her4 protein tumour biomarker detection. Biosensors and Bioelectronics, 2018, 108, 1-8.	5.3	57
32	Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgOâ€“polyaniline hybrid nanocomposite. Biosensors and Bioelectronics, 2013, 50, 35-41.	5.3	53
33	Anti-EpCAM modified LC-SPDP monolayer on gold microelectrode based electrochemical biosensor for MCF-7 cells detection. Biosensors and Bioelectronics, 2013, 41, 446-451.	5.3	52
34	Surface-immobilization of chromatographically purified bacteriophages for the optimized capture of bacteria. Bacteriophage, 2012, 2, 15-24.	1.9	51
35	Capacitive malaria aptasensor using Plasmodium falciparum glutamate dehydrogenase as target antigen in undiluted human serum. Biosensors and Bioelectronics, 2018, 117, 246-252.	5.3	50
36	Application of electrochemically prepared poly-N-methylpyrrole-p-toluene sulphonate films to cholesterol biosensor. Sensors and Actuators B: Chemical, 2007, 123, 829-839.	4.0	45

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37	Electrochemical ELISA-based platform for bladder cancer protein biomarker detection in urine. Biosensors and Bioelectronics, 2018, 117, 620-627.	5.3	45
38	Effects of the Electrode Size and Modification Protocol on a Label-Free Electrochemical Biosensor. Langmuir, 2013, 29, 6770-6777.	1.6	39
39	Vaporâ€“liquidâ€“solid grown silica nanowire based electrochemical glucose biosensor. Analyst, The, 2011, 136, 1686.	1.7	36
40	Label free biosensor for sensitive human influenza virus hemagglutinin specific antibody detection using coiled-coil peptide modified microelectrode array based platform. Sensors and Actuators B: Chemical, 2014, 194, 127-133.	4.0	36
41	Zinc oxideâ€“potassium ferricyanide composite thin film matrix for biosensing applications. Analytica Chimica Acta, 2009, 653, 212-216.	2.6	32
42	Electrochemical immunosensor for tumor necrosis factor-alpha detection in undiluted serum. Methods, 2017, 116, 125-131.	1.9	32
43	Redox active poly(pyrrole-N-ferrocene-pyrrole) copolymer based mediator-less biosensors. Journal of Electroanalytical Chemistry, 2011, 658, 33-37.	1.9	31
44	Dithiobissuccinimidyl propionate self assembled monolayer based cholesterol biosensor. Analyst, The, 2007, 132, 1005.	1.7	26
45	Langmuirâ€“Blodgett film based on MEH-PPV for cholesterol biosensor. Analytica Chimica Acta, 2009, 634, 243-249.	2.6	24
46	Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection. Journal of Sensors, 2011, 2011, 1-7.	0.6	24
47	Zinc Oxide Nanorods Modified Indium Tin Oxide Surface for Amperometric Urea Biosensor. Journal of Nanoscience and Nanotechnology, 2011, 11, 6683-6689.	0.9	23
48	Antibody modified gold micro array electrode based electrochemical immunosensor for ultrasensitive detection of cortisol in saliva and ISF. Procedia Engineering, 2010, 5, 804-807.	1.2	22
49	Biosensor for total cholesterol estimation using N-(2-aminoethyl)-3-aminopropyltrimethoxysilane self-assembled monolayer. Analytical and Bioanalytical Chemistry, 2007, 389, 2235-2242.	1.9	21
50	High density CMOS electrode array for high-throughput and automated cell counting. Sensors and Actuators B: Chemical, 2013, 181, 842-849.	4.0	21
51	4-Fluoro-3-nitrophenyl grafted gold electrode based platform for label free electrochemical detection of interleukin-2 protein. Biosensors and Bioelectronics, 2014, 61, 260-265.	5.3	20
52	Polythiophene gold nanoparticles composite film for application to glucose sensor. Journal of Applied Polymer Science, 2008, 110, 988-994.	1.3	18
53	On-chip electrochemical immunoassay platform for specific protein biomarker estimation in undiluted serum using off-surface membrane matrix. Biosensors and Bioelectronics, 2017, 91, 721-727.	5.3	18
54	Coiled-coil peptide based sensor for ultra-sensitive thrombin detection. Biosensors and Bioelectronics, 2014, 55, 26-31.	5.3	17

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55	Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection. Biosensors Journal, 2012, 1, 1-7.	0.4	16
56	Off surface matrix based on-chip electrochemical biosensor platform for protein biomarker detection in undiluted serum. Biosensors and Bioelectronics, 2017, 92, 542-548.	5.3	16
57	Nanostructured conducting polymer based reagentless capacitive immunosensor. Biomedical Microdevices, 2010, 12, 63-70.	1.4	15
58	Optimized growth and integration of silica nanowires into interdigitated microelectrode structures for biosensing. Sensors and Actuators B: Chemical, 2012, 175, 29-33.	4.0	15
59	Selfâ€assembled monolayer for low density lipoprotein detection. Journal of Molecular Recognition, 2008, 21, 419-424.	1.1	13
60	Electrochemical ELISA Protein Biosensing in Undiluted Serum Using a Polypyrrole-Based Platform. Sensors, 2020, 20, 2857.	2.1	11
61	Concentration specific detection of hydrogen at room temperature using palladium nanoparticles-nafion film. Procedia Engineering, 2010, 5, 168-171.	1.2	8
62	PLD grown ZnOâ€“K3[Fe(CN)6] composite thin film for biosensing application. Thin Solid Films, 2010, 519, 1184-1186.	0.8	4
63	Study of Growth Kinetics of Pd Metal Catalyzed Silica Nanowires for Biosensor Applications. Procedia Engineering, 2011, 25, 1577-1580.	1.2	1
64	Zinc Oxide Nanorod Films for Electrochemical Urea Biosensor. Materials Research Society Symposia Proceedings, 2011, 1355, 1.	0.1	1
65	Palladium Nanoparticles Film Based Concentration Specific Hydrogen Sensor. Sensor Letters, 2012, 10, 67-72.	0.4	1