

# 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	Electrochemical ELISA Protein Biosensing in Undiluted Serum Using a Polypyrrole-Based Platform. <i>Sensors</i> , 2020, 20, 2857.	2.1	11
2	Sensitive and selective Affimer-functionalised interdigitated electrode-based capacitive biosensor for Her4 protein tumour biomarker detection. <i>Biosensors and Bioelectronics</i> , 2018, 108, 1-8.	5.3	57
3	Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. <i>Biosensors and Bioelectronics</i> , 2018, 102, 106-112.	5.3	119
4	Electrochemical ELISA-based platform for bladder cancer protein biomarker detection in urine. <i>Biosensors and Bioelectronics</i> , 2018, 117, 620-627.	5.3	45
5	Recent Advances in Enhancement Strategies for Electrochemical ELISA-Based Immunoassays for Cancer Biomarker Detection. <i>Sensors</i> , 2018, 18, 2010.	2.1	75
6	Capacitive malaria aptasensor using Plasmodium falciparum glutamate dehydrogenase as target antigen in undiluted human serum. <i>Biosensors and Bioelectronics</i> , 2018, 117, 246-252.	5.3	50
7	On-chip electrochemical immunoassay platform for specific protein biomarker estimation in undiluted serum using off-surface membrane matrix. <i>Biosensors and Bioelectronics</i> , 2017, 91, 721-727.	5.3	18
8	Electrochemical immunosensor for tumor necrosis factor-alpha detection in undiluted serum. <i>Methods</i> , 2017, 116, 125-131.	1.9	32
9	Off surface matrix based on-chip electrochemical biosensor platform for protein biomarker detection in undiluted serum. <i>Biosensors and Bioelectronics</i> , 2017, 92, 542-548.	5.3	16
10	Coiled-coil peptide based sensor for ultra-sensitive thrombin detection. <i>Biosensors and Bioelectronics</i> , 2014, 55, 26-31.	5.3	17
11	Recent advances in cortisol sensing technologies for point-of-care application. <i>Biosensors and Bioelectronics</i> , 2014, 53, 499-512.	5.3	238
12	Label free biosensor for sensitive human influenza virus hemagglutinin specific antibody detection using coiled-coil peptide modified microelectrode array based platform. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 127-133.	4.0	36
13	4-Fluoro-3-nitrophenyl grafted gold electrode based platform for label free electrochemical detection of interleukin-2 protein. <i>Biosensors and Bioelectronics</i> , 2014, 61, 260-265.	5.3	20
14	High density CMOS electrode array for high-throughput and automated cell counting. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 842-849.	4.0	21
15	Detection of tumor necrosis factor (TNF- $\alpha$ ) in cell culture medium with label free electrochemical impedance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 494-500.	4.0	57
16	Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgO-polyaniline hybrid nanocomposite. <i>Biosensors and Bioelectronics</i> , 2013, 50, 35-41.	5.3	53
17	Enrichment, detection and clinical significance of circulating tumor cells. <i>Lab on A Chip</i> , 2013, 13, 1995.	3.1	153
18	Effects of the Electrode Size and Modification Protocol on a Label-Free Electrochemical Biosensor. <i>Langmuir</i> , 2013, 29, 6770-6777.	1.6	39

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19	Anti-EpCAM modified LC-SPDP monolayer on gold microelectrode based electrochemical biosensor for MCF-7 cells detection. <i>Biosensors and Bioelectronics</i> , 2013, 41, 446-451.	5.3	52
20	Surface-immobilization of chromatographically purified bacteriophages for the optimized capture of bacteria. <i>Bacteriophage</i> , 2012, 2, 15-24.	1.9	51
21	Advances in materials for room temperature hydrogen sensors. <i>Analyst, The</i> , 2012, 137, 2743.	1.7	74
22	Optimized growth and integration of silica nanowires into interdigitated microelectrode structures for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 29-33.	4.0	15
23	Recent advances in ZnO nanostructures and thin films for biosensor applications: Review. <i>Analytica Chimica Acta</i> , 2012, 737, 1-21.	2.6	513
24	Mediator free highly sensitive polyaniline-gold hybrid nanocomposite based immunosensor for prostate-specific antigen (PSA) detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 14763.	6.7	73
25	Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection. <i>Biosensors Journal</i> , 2012, 1, 1-7.	0.4	16
26	Breast tumor cell detection at single cell resolution using an electrochemical impedance technique. <i>Lab on A Chip</i> , 2012, 12, 2362.	3.1	114
27	Palladium Nanoparticles Film Based Concentration Specific Hydrogen Sensor. <i>Sensor Letters</i> , 2012, 10, 67-72.	0.4	1
28	Vapor-liquid-solid grown silica nanowire based electrochemical glucose biosensor. <i>Analyst, The</i> , 2011, 136, 1686.	1.7	36
29	Lung Cancer and Its Early Detection Using Biomarker-Based Biosensors. <i>Chemical Reviews</i> , 2011, 111, 6783-6809.	23.0	236
30	Study of Growth Kinetics of Pd Metal Catalyzed Silica Nanowires for Biosensor Applications. <i>Procedia Engineering</i> , 2011, 25, 1577-1580.	1.2	1
31	Zinc Oxide Nanorod Films for Electrochemical Urea Biosensor. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1355, 1.	0.1	1
32	Chemically immobilized T4-bacteriophage for specific Escherichia coli detection using surface plasmon resonance. <i>Analyst, The</i> , 2011, 136, 486-492.	1.7	141
33	Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection. <i>Journal of Sensors</i> , 2011, 2011, 1-7.	0.6	24
34	Zinc Oxide Nanorods Modified Indium Tin Oxide Surface for Amperometric Urea Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6683-6689.	0.9	23
35	A realtime and continuous assessment of cortisol in ISF using electrochemical impedance spectroscopy. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 154-160.	2.0	73
36	Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. <i>Biosensors and Bioelectronics</i> , 2011, 28, 166-173.	5.3	100

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37	Redox active poly(pyrrole-N-ferrocene-pyrrole) copolymer based mediator-less biosensors. Journal of Electroanalytical Chemistry, 2011, 658, 33-37.	1.9	31
38	Bacteriophage tailspike proteins as molecular probes for sensitive and selective bacterial detection. Biosensors and Bioelectronics, 2010, 26, 131-138.	5.3	113
39	Nanostructured conducting polymer based reagentless capacitive immunosensor. Biomedical Microdevices, 2010, 12, 63-70.	1.4	15
40	Concentration specific detection of hydrogen at room temperature using palladium nanoparticles-nafion film. Procedia Engineering, 2010, 5, 168-171.	1.2	8
41	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
42	PLD grown ZnO@K <sub>3</sub> [Fe(CN) <sub>6</sub> ] composite thin film for biosensing application. Thin Solid Films, 2010, 519, 1184-1186.	0.8	4
43	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
44	Antibody functionalized interdigitated $\frac{1}{4}$ -electrode (ID $\frac{1}{4}$ E) based impedimetric cortisol biosensor. Analyst, The, 2010, 135, 1941.	1.7	66
45	Recent advances in self-assembled monolayers based biomolecular electronic devices. Biosensors and Bioelectronics, 2009, 24, 2810-2817.	5.3	199
46	Nanoporous cerium oxide thin film for glucose biosensor. Biosensors and Bioelectronics, 2009, 24, 2040-2045.	5.3	116
47	Langmuir-Blodgett film based on MEH-PPV for cholesterol biosensor. Analytica Chimica Acta, 2009, 634, 243-249.	2.6	24
48	Zinc oxide@potassium ferricyanide composite thin film matrix for biosensing applications. Analytica Chimica Acta, 2009, 653, 212-216.	2.6	32
49	Recent advances in cholesterol biosensor. Biosensors and Bioelectronics, 2008, 23, 1083-1100.	5.3	236
50	Self-assembled monolayer for low density lipoprotein detection. Journal of Molecular Recognition, 2008, 21, 419-424.	1.1	13
51	Polythiophene gold nanoparticles composite film for application to glucose sensor. Journal of Applied Polymer Science, 2008, 110, 988-994.	1.3	18
52	Preparation of polyaniline/multiwalled carbon nanotube composite by novel electrophoretic route. Carbon, 2008, 46, 1727-1735.	5.4	118
53	Polyaniline@carbon nanotube composite film for cholesterol biosensor. Analytical Biochemistry, 2008, 383, 194-199.	1.1	139
54	Nucleic acid sensor for M. tuberculosis detection based on surface plasmon resonance. Analyst, The, 2008, 133, 1587.	1.7	81

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55	Polyaniline Langmuir-Blodgett Film Based Cholesterol Biosensor. Langmuir, 2007, 23, 13188-13192.	1.6	98
56	Application of Thiolated Gold Nanoparticles for the Enhancement of Glucose Oxidase Activity. Langmuir, 2007, 23, 3333-3337.	1.6	227
57	Cholesterol Biosensor Based on Amino-Undecanethiol Self-Assembled Monolayer Using Surface Plasmon Resonance Technique. Langmuir, 2007, 23, 7398-7403.	1.6	57
58	Dithiobissuccinimidyl propionate self assembled monolayer based cholesterol biosensor. Analyst, The, 2007, 132, 1005.	1.7	26
59	Cholesterol biosensor based on rf sputtered zinc oxide nanoporous thin film. Applied Physics Letters, 2007, 91, .	1.5	239
60	Poly-(3-hexylthiophene) self-assembled monolayer based cholesterol biosensor using surface plasmon resonance technique. Biosensors and Bioelectronics, 2007, 22, 2516-2524.	5.3	78
61	Cholesterol biosensor based on N-(2-aminoethyl)-3-aminopropyl-trimethoxysilane self-assembled monolayer. Analytical Biochemistry, 2007, 363, 210-218.	1.1	103
62	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
63	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
64	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
65	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. Talanta, 2006, 69, 918-926.	2.9	81