

# Sandeep Kumar Vashist

## List of Publications by Year in descending order

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72  
papers

5,476  
citations

147801

31  
h-index

168389

53  
g-index

73  
all docs

73  
docs citations

73  
times ranked

8598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Technologies for Next-Generation Point-of-Care Testing. <i>Trends in Biotechnology</i> , 2015, 33, 692-705.	9.3	583
2	Non-invasive glucose monitoring technology in diabetes management: A review. <i>Analytica Chimica Acta</i> , 2012, 750, 16-27.	5.4	467
3	Advances in carbon nanotube based electrochemical sensors for bioanalytical applications. <i>Biotechnology Advances</i> , 2011, 29, 169-188.	11.7	401
4	Cellphone-based devices for bioanalytical sciences. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3263-3277.	3.7	268
5	Immobilization of Antibodies and Enzymes on 3-Aminopropyltriethoxysilane-Functionalized Bioanalytical Platforms for Biosensors and Diagnostics. <i>Chemical Reviews</i> , 2014, 114, 11083-11130.	47.7	263
6	Delivery of drugs and biomolecules using carbon nanotubes. <i>Carbon</i> , 2011, 49, 4077-4097.	10.3	241
7	Recent advances in electrochemical biosensing schemes using graphene and graphene-based nanocomposites. <i>Carbon</i> , 2015, 84, 519-550.	10.3	202
8	A smartphone-based colorimetric reader for bioanalytical applications using the screen-based bottom illumination provided by gadgets. <i>Biosensors and Bioelectronics</i> , 2015, 67, 248-255.	10.1	201
9	Commercial Smartphone-Based Devices and Smart Applications for Personalized Healthcare Monitoring and Management. <i>Diagnostics</i> , 2014, 4, 104-128.	2.6	196
10	Continuous Glucose Monitoring Systems: A Review. <i>Diagnostics</i> , 2013, 3, 385-412.	2.6	194
11	Technology behind commercial devices for blood glucose monitoring in diabetes management: A review. <i>Analytica Chimica Acta</i> , 2011, 703, 124-136.	5.4	181
12	Recent Advances in Quartz Crystal Microbalance-Based Sensors. <i>Journal of Sensors</i> , 2011, 2011, 1-13.	1.1	176
13	Point-of-Care Diagnostics: Recent Advances and Trends. <i>Biosensors</i> , 2017, 7, 62.	4.7	154
14	Interfacing Carbon Nanotubes with Living Mammalian Cells and Cytotoxicity Issues. <i>Chemical Research in Toxicology</i> , 2010, 23, 1131-1147.	3.3	150
15	Multisubstrate-compatible ELISA procedures for rapid and high-sensitivity immunoassays. <i>Nature Protocols</i> , 2011, 6, 439-445.	12.0	144
16	Effect of antibody immobilization strategies on the analytical performance of a surface plasmon resonance-based immunoassay. <i>Analyst</i> , 2011, 136, 4431.	3.5	140
17	Comparison of 1-Ethyl-3-(3-Dimethylaminopropyl) Carbodiimide Based Strategies to Crosslink Antibodies on Amine-Functionalized Platforms for Immunodiagnostic Applications. <i>Diagnostics</i> , 2012, 2, 23-33.	2.6	140
18	Development of a High Sensitivity Rapid Sandwich ELISA Procedure and Its Comparison with the Conventional Approach. <i>Analytical Chemistry</i> , 2010, 82, 7049-7052.	6.5	138

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19	Bioanalytical advances in assays for C-reactive protein. <i>Biotechnology Advances</i> , 2016, 34, 272-290.	11.7	113
20	One-step antibody immobilization-based rapid and highly-sensitive sandwich ELISA procedure for potential in vitro diagnostics. <i>Scientific Reports</i> , 2014, 4, 4407.	3.3	106
21	Carbon nanotube bottles for incorporation, release and enhanced cytotoxic effect of cisplatin. <i>Carbon</i> , 2012, 50, 1625-1634.	10.3	86
22	Graphene-based rapid and highly-sensitive immunoassay for C-reactive protein using a smartphone-based colorimetric reader. <i>Biosensors and Bioelectronics</i> , 2015, 66, 169-176.	10.1	75
23	Graphene versus Multi-Walled Carbon Nanotubes for Electrochemical Glucose Biosensing. <i>Materials</i> , 2013, 6, 1011-1027.	2.9	69
24	Nanotechnology-Based Biosensors and Diagnostics: Technology Push versus Industrial/Healthcare Requirements. <i>BioNanoScience</i> , 2012, 2, 115-126.	3.5	64
25	One-step kinetics-based immunoassay for the highly sensitive detection of C-reactive protein in less than 30min. <i>Analytical Biochemistry</i> , 2014, 456, 32-37.	2.4	62
26	Microfluidic solutions enabling continuous processing and monitoring of biological samples: A review. <i>Analytica Chimica Acta</i> , 2016, 929, 1-22.	5.4	61
27	Evaluation of apparent non-specific protein loss due to adsorption on sample tube surfaces and/or altered immunogenicity. <i>Analyst, The</i> , 2011, 136, 1406.	3.5	47
28	Mediatorless amperometric glucose biosensing using 3-aminopropyltriethoxysilane-functionalized graphene. <i>Talanta</i> , 2012, 99, 22-28.	5.5	46
29	Surface plasmon resonance-based immunoassay for human C-reactive protein. <i>Analyst, The</i> , 2015, 140, 4445-4452.	3.5	45
30	Rapid sandwich ELISA-based in vitro diagnostic procedure for the highly-sensitive detection of human fetuin A. <i>Biosensors and Bioelectronics</i> , 2015, 67, 73-78.	10.1	35
31	A sub-picogram sensitive rapid chemiluminescent immunoassay for the detection of human fetuin A. <i>Biosensors and Bioelectronics</i> , 2013, 40, 297-302.	10.1	32
32	Trends in in vitro diagnostics and mobile healthcare. <i>Biotechnology Advances</i> , 2016, 34, 137-138.	11.7	32
33	Surface plasmon resonance-based immunoassay for procalcitonin. <i>Analytica Chimica Acta</i> , 2016, 938, 129-136.	5.4	32
34	Immunosensing procedures for carcinoembryonic antigen using graphene and nanocomposites. <i>Biosensors and Bioelectronics</i> , 2017, 89, 293-304.	10.1	31
35	Rapid and simple preparation of a reagentless glucose electrochemical biosensor. <i>Analyst, The</i> , 2012, 137, 3800.	3.5	29
36	Surface plasmon resonance-based immunoassay for human fetuin A. <i>Analyst, The</i> , 2014, 139, 2237.	3.5	28

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37	Microcantilevers for Sensing Applications. Measurement and Control, 2010, 43, 84-88.	1.8	25
38	Graphene-based immunoassay for human lipocalin-2. Analytical Biochemistry, 2014, 446, 96-101.	2.4	23
39	Bioluminescence assay for the highly sensitive detection of botulinum neurotoxin A activity. Analyst, The, 2013, 138, 6154.	3.5	16
40	Effect of antibody modifications on its biomolecular binding as determined by surface plasmon resonance. Analytical Biochemistry, 2012, 421, 336-338.	2.4	15
41	Emerging Human Fetuin A Assays for Biomedical Diagnostics. Trends in Biotechnology, 2017, 35, 407-421.	9.3	15
42	Sulfo-N-hydroxysuccinimide interferes with bicinchoninic acid protein assay. Analytical Biochemistry, 2011, 417, 156-158.	2.4	14
43	Comparative Study of the Developed Chemiluminescent, ELISA and SPR Immunoassay Formats for the Highly Sensitive Detection of Human Albumin. Procedia Chemistry, 2012, 6, 184-193.	0.7	14
44	Rapid and highly sensitive luciferase reporter assay for the automated detection of botulinum toxin in the centrifugal microfluidic LabDisk platform. RSC Advances, 2013, 3, 22046.	3.6	14
45	Interference of N-hydroxysuccinimide with bicinchoninic acid protein assay. Biochemical and Biophysical Research Communications, 2011, 411, 455-457.	2.1	13
46	A method for regenerating gold surface for prolonged reuse of gold-coated surface plasmon resonance chip. Analytical Biochemistry, 2012, 423, 23-25.	2.4	10
47	Point-of-Care Technologies Enabling Next-Generation Healthcare Monitoring and Management. , 2019, , .		10
48	Development of a Rapid Sandwich Enzyme Linked Immunoassay Procedure for the Highly Sensitive Detection of Human Lipocalin-2/NGAL. Procedia Chemistry, 2012, 6, 141-148.	0.7	9
49	A rapid sandwich immunoassay for human fetuin A using agarose-3-aminopropyltriethoxysilane modified microtiter plate. Analytica Chimica Acta, 2015, 883, 74-80.	5.4	9
50	Advances in Graphene-Based Sensors and Devices. Journal of Nanomedicine & Nanotechnology, 2012, 04, .	1.1	8
51	A Smartphone-Based Colorimetric Reader for Human C-Reactive Protein Immunoassay. Methods in Molecular Biology, 2017, 1571, 343-356.	0.9	8
52	Smartphone-Based Point-of-Care Technologies for Mobile Healthcare. , 2019, , 27-79.		7
53	A rapid and highly sensitive immunoassay format for human lipocalin-2 using multiwalled carbon nanotubes. Biosensors and Bioelectronics, 2017, 93, 198-204.	10.1	6
54	Wearable Technologies for Personalized Mobile Healthcare Monitoring and Management. , 2018, , 235-259.		6

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55	An Overview of Point-of-Care Technologies Enabling Next-Generation Healthcare Monitoring and Management. , 2019, , 1-25.		5
56	Trends in Multiplex Immunoassays for In Vitro Diagnostics and Point-of-Care Testing. Diagnostics, 2021, 11, 1630.	2.6	5
57	Commercially Available Smartphone-Based Personalized Mobile Healthcare Technologies. , 2019, , 81-115.		3
58	Effect of 3-Aminopropyltriethoxysilane on the Electrocatalysis of Carbon Nanotubes for Reagentless Glucose Biosensing. Journal of Nanopharmaceutics and Drug Delivery, 2013, 1, 64-73.	0.3	3
59	Point-of-Care Diabetes Management Softwares and Smart Applications. , 2019, , 117-132.		2
60	Paper-Based Point-of-Care Immunoassays. , 2019, , 133-155.		2
61	Chapter 5 Glycated haemoglobin (HbA1c) monitoring for diabetes diagnosis, management and therapy. , 2016, , 97-124.		1
62	Chapter 6 Diabetes management software and smart applications. , 2016, , 125-144.		1
63	Specific immobilization of human immunoglobulin G on gold-coated silicon microcantilever array. , 2007, , .		0
64	Lab-on-a-Chip-Based Point-of-Care Immunoassays. , 2019, , 157-175.		0
65	Multiplex Immunoassays. , 2019, , 177-196.		0
66	Bioanalytical Parameters in Immunoassays and Their Determination. , 2019, , 197-208.		0
67	Future Trends for the Next Generation of Personalized and Integrated Healthcare for Chronic Diseases. , 2019, , 209-223.		0
68	In Vitro Diagnostics for COVID-19: State-of-the-Art, Future Directions and Role in Pandemic Response. , 0, , .		0
69	Chapter 2 Blood glucose monitoring devices. , 2016, , 19-48.		0
70	Chapter 3 Non-invasive analytics for point-of-care testing of glucose. , 2016, , 49-74.		0
71	Chapter 1 Diabetes: a growing epidemic and the need for point-of-care testing. , 2016, , 1-18.		0
72	Chapter 4 Continuous glucose monitoring systems. , 2016, , 75-96.		0