

Pabitra Nath

List of Publications by Year in descending order

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42
papers

1,141
citations

516710

16
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

1445
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free biodetection using a smartphone. <i>Lab on A Chip</i> , 2013, 13, 2124.	6.0	281
2	Low-Cost, Robust, and Field Portable Smartphone Platform Photometric Sensor for Fluoride Level Detection in Drinking Water. <i>Analytical Chemistry</i> , 2017, 89, 767-775.	6.5	99
3	Smartphone based LSPR sensing platform for bio-conjugation detection and quantification. <i>RSC Advances</i> , 2016, 6, 21871-21880.	3.6	92
4	Water salinity detection using a smartphone. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1042-1050.	7.8	74
5	Gold-coated electrospun PVA nanofibers as SERS substrate for detection of pesticides. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 710-717.	7.8	65
6	Ground and river water quality monitoring using a smartphone-based pH sensor. <i>AIP Advances</i> , 2015, 5, .	1.3	54
7	Evanescent Wave Coupled Spectroscopic Sensing Using Smartphone. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 568-570.	2.5	52
8	Protein, enzyme and carbohydrate quantification using smartphone through colorimetric digitization technique. <i>Journal of Biophotonics</i> , 2017, 10, 623-633.	2.3	37
9	All fiberâ€”optic sensor for liquid level measurement. <i>Microwave and Optical Technology Letters</i> , 2008, 50, 1982-1984.	1.4	33
10	Blu-ray DVD as SERS substrate for reliable detection of albumin, creatinine and urea in urine. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 108-115.	7.8	33
11	Dye-Assisted pH Sensing Using a Smartphone. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2363-2366.	2.5	32
12	Estimation of trace-mercury concentration in water using a smartphone. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 154, 107507.	5.0	26
13	Surface Plasmon Resonance-Based Protein Bio-Sensing Using a Kretschmann Configured Double Prism Arrangement. <i>IEEE Sensors Journal</i> , 2015, 15, 6791-6796.	4.7	25
14	Design of a Smartphone Platform Compact Optical System Operational Both in Visible and Near Infrared Spectral Regime. <i>IEEE Sensors Journal</i> , 2018, 18, 4933-4939.	4.7	25
15	SERS on paper: an extremely low cost technique to measure Raman signal. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485601.	2.8	24
16	A naturally occurring diatom frustule as a SERS substrate for the detection and quantification of chemicals. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 175103.	2.8	22
17	Turbidimetric analysis of growth kinetics of bacteria in the laboratory environment using smartphone. <i>Journal of Biophotonics</i> , 2020, 13, e201960159.	2.3	16
18	Wide-field multi-modal microscopic imaging using smartphone. <i>Optics and Lasers in Engineering</i> , 2021, 137, 106343.	3.8	14

#	ARTICLE	IF	CITATIONS
19	Detection and quantification of phosphate in water and soil using a smartphone. <i>Microchemical Journal</i> , 2022, 172, 106949.	4.5	14
20	Smartphone-based platform optical setup measuring $\pi/256$ optical phase difference in an interference process. <i>Applied Optics</i> , 2015, 54, 5739.	2.1	13
21	Enhanced sensitive fiber-optic sensor with double pass evanescent field absorption. <i>Microwave and Optical Technology Letters</i> , 2009, 51, 3004-3006.	1.4	12
22	Periodically Varying Height in Metal Nano-pillars for Enhanced Generation of Localized Surface Plasmon Field. <i>Plasmonics</i> , 2015, 10, 1367-1372.	3.4	12
23	Carbon Nanodot-Neutral Red-Based Photometric and Fluorescence Sensing for Trace Detection of Nitrite in Water and Soil Using Smartphone. <i>ACS Applied Nano Materials</i> , 2022, 5, 3265-3274.	5.0	11
24	All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. <i>IEEE Sensors Journal</i> , 2013, 13, 1148-1152.	4.7	10
25	Fiber-Optic pH Sensor Based on SPR of Silver Nanostructured Film. , 2009, , .		8
26	Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. <i>IEEE Sensors Journal</i> , 2013, 13, 3345-3346.	4.7	8
27	Diagonally Aligned Squared Metal Nano-pillar with Increased Hotspot Density as a Highly Reproducible SERS Substrate. <i>Plasmonics</i> , 2017, 12, 1353-1358.	3.4	7
28	Programmable illumination smartphone microscopy (PISM): A multimodal imaging platform for biomedical applications. <i>Optics and Lasers in Engineering</i> , 2022, 151, 106931.	3.8	7
29	An affordable, handheld multimodal microscopic system with onboard cell morphology and counting features on a mobile device. <i>Analyst, The</i> , 2022, 147, 2859-2869.	3.5	6
30	Fiber-optic liquid level sensor based on coupling optical path length variation. <i>Review of Scientific Instruments</i> , 2012, 83, 055006.	1.3	5
31	Smartphone-Based Spectrometric Analyzer for Accurate Estimation of pH Value in Soil. <i>IEEE Sensors Journal</i> , 2020, , 1-1.	4.7	5
32	Non-intrusive refractometer sensor. <i>Pramana - Journal of Physics</i> , 2010, 74, 661-668.	1.8	4
33	Dual Mode Smartphone Based Sensing for Accurate Estimation of Sulphate and Chloride in Water. <i>IEEE Sensors Journal</i> , 2021, 21, 19314-19321.	4.7	4
34	A smartphone-based photometric and fluorescence sensing for accurate estimation of zinc ion in water. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113586.	4.1	3
35	Lightwave splitting in two dimensional photonic crystal analogue of coupler. <i>Optics Communications</i> , 2008, 281, 4784-4787.	2.1	2
36	Single-mode fibre coupler as refractometer sensor. <i>Pramana - Journal of Physics</i> , 2012, 79, 1525-1532.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Design, fabrication and testing of 3D printed smartphone-based device for collection of intrinsic fluorescence from human cervix. Scientific Reports, 2022, 12, .	3.3	2
38	Cobalt chloride doped polymer film for relative humidity measurement. , 2007, , .		1
39	Blu-ray DVD as SERS substrate for reliable detection and quantification of urea. , 2018, , .		1
40	Smartphone Based Platform for Colorimetric Sensing of Dyes. Springer Proceedings in Physics, 2015, , 541-546.	0.2	0
41	A fully automated colorimetric sensing device using smartphone for biomolecular quantification. , 2017, , .		0
42	Accurate estimation of mercury level concentration in water using smartphone. , 2018, , .		0