Iftak Hussain

List of Publications by Year
in descending order

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42 papers	1,258 citations	516710 16 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	1389 citing authors

#	Article	IF	Citations
1	Detection and quantification of phosphate in water and soil using a smartphone. Microchemical Journal, 2022, 172, 106949.	4.5	14
2	Programmable illumination smartphone microscopy (PISM): A multimodal imaging platform for biomedical applications. Optics and Lasers in Engineering, 2022, 151, 106931.	3.8	7
3	Carbon Nanodotâ€"Neutral Red-Based Photometric and Fluorescence Sensing for Trace Detection of Nitrite in Water and Soil Using Smartphone. ACS Applied Nano Materials, 2022, 5, 3265-3274.	5.0	11
4	An affordable, handheld multimodal microscopic system with onboard cell morphology and counting features on a mobile device. Analyst, The, 2022, 147, 2859-2869.	3.5	6
5	A smartphone-based photometric and fluorescence sensing for accurate estimation of zinc ion in water. Sensors and Actuators A: Physical, 2022, 341, 113586.	4.1	3
6	Synergy of Adsorption and Plasmonic Photocatalysis in the Auâ€"CeO₂ Nanosystem: Experimental Validation and Plasmonic Modeling. Langmuir, 2022, 38, 7628-7638.	3.5	14
7	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
8	Wide-field multi-modal microscopic imaging using smartphone. Optics and Lasers in Engineering, 2021, 137, 106343.	3.8	14
9	Recent trends in smartphone-based detection for biomedical applications: a review. Analytical and Bioanalytical Chemistry, 2021, 413, 2389-2406.	3.7	93
10	Smartphone-based optical spectroscopic platforms for biomedical applications: a review [Invited]. Biomedical Optics Express, 2021, 12, 1974.	2.9	38
11	Low-Cost, Volume-Controlled Dipstick Urinalysis for Home-Testing. Journal of Visualized Experiments, 2021, , .	0.3	2
12	Dual Mode Smartphone Based Sensing for Accurate Estimation of Sulphate and Chloride in Water. IEEE Sensors Journal, 2021, 21, 19314-19321.	4.7	4
13	Recurrence monitoring for ovarian cancer using a cell phone-integrated paper device to measure the ovarian cancer biomarker HE4/CRE ratio in urine. Scientific Reports, 2021, 11, 21945.	3.3	2
14	Immunoinformatics mapping of potential epitopes in SARS-CoV-2 structural proteins. PLoS ONE, 2021, 16, e0258645.	2.5	13
15	Turbidimetric analysis of growth kinetics of bacteria in the laboratory environment using smartphone. Journal of Biophotonics, 2020, 13, e201960159.	2.3	16
16	Smartphone-Based Spectrometric Analyzer for Accurate Estimation of pH Value in Soil. IEEE Sensors Journal, 2020, , 1-1.	4.7	5
17	Estimation of trace-mercury concentration in water using a smartphone. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107507.	5.0	26
18	Design of a Smartphone Platform Compact Optical System Operational Both in Visible and Near Infrared Spectral Regime. IEEE Sensors Journal, 2018, 18, 4933-4939.	4.7	25

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19	Design of a 3D printed compact interferometric system and required phone application for small angular measurements. Review of Scientific Instruments, 2018, 89, 103111.	1.3	7
20	Protein, enzyme and carbohydrate quantification using smartphone through colorimetric digitization technique. Journal of Biophotonics, 2017, 10, 623-633.	2.3	37
21	A naturally occurring diatom frustule as a SERS substrate for the detection and quantification of chemicals. Journal Physics D: Applied Physics, 2017, 50, 175103.	2.8	22
22	Low-Cost, Robust, and Field Portable Smartphone Platform Photometric Sensor for Fluoride Level Detection in Drinking Water. Analytical Chemistry, 2017, 89, 767-775.	6.5	99
23	Water salinity detection using a smartphone. Sensors and Actuators B: Chemical, 2017, 239, 1042-1050.	7.8	74
24	Diagonally Aligned Squared Metal Nano-pillar with Increased Hotspot Density as a Highly Reproducible SERS Substrate. Plasmonics, 2017, 12, 1353-1358.	3.4	7
25	Water turbidity sensing using a smartphone. RSC Advances, 2016, 6, 22374-22382.	3.6	73
26	Smartphone based LSPR sensing platform for bio-conjugation detection and quantification. RSC Advances, 2016, 6, 21871-21880.	3.6	92
27	Periodically Varying Height in Metal Nano-pillars for Enhanced Generation of Localized Surface Plasmon Field. Plasmonics, 2015, 10, 1367-1372.	3.4	12
28	Smartphone-based platform optical setup measuring Ï€/256 optical phase difference in an interference process. Applied Optics, 2015, 54, 5739.	2.1	13
29	Surface Plasmon Resonance-Based Protein Bio-Sensing Using a Kretschmann Configured Double Prism Arrangement. IEEE Sensors Journal, 2015, 15, 6791-6796.	4.7	25
30	Ground and river water quality monitoring using a smartphone-based pH sensor. AIP Advances, 2015, 5, .	1.3	54
31	Dye-Assisted pH Sensing Using a Smartphone. IEEE Photonics Technology Letters, 2015, 27, 2363-2366.	2.5	32
32	Evanescent Wave Coupled Spectroscopic Sensing Using Smartphone. IEEE Photonics Technology Letters, 2014, 26, 568-570.	2.5	52
33	Solvent treated paper resistor for filter circuit operation and relative humidity sensing. Indian Journal of Physics, 2014, 88, 1093-1097.	1.8	6
34	Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. IEEE Sensors Journal, 2013, 13, 3345-3346.	4.7	8
35	Label-free biodetection using a smartphone. Lab on A Chip, 2013, 13, 2124.	6.0	281
36	All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. IEEE Sensors Journal, 2013, 13, 1148-1152.	4.7	10

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37	Fiber-optic liquid level sensor based on coupling optical path length variation. Review of Scientific Instruments, 2012, 83, 055006.	1.3	5
38	Single-mode fibre coupler as refractometer sensor. Pramana - Journal of Physics, 2012, 79, 1525-1532.	1.8	2
39	Non-intrusive refractometer sensor. Pramana - Journal of Physics, 2010, 74, 661-668.	1.8	4
40	Enhanced sensitive fiberâ€optic sensor with double pass evanescent field absorption. Microwave and Optical Technology Letters, 2009, 51, 3004-3006.	1.4	12
41	All fiberâ€optic sensor for liquid level measurement. Microwave and Optical Technology Letters, 2008, 50, 1982-1984.	1.4	33
42	A multi-channel smartphone-based spectroscopic system for high-throughput biosensing in low-resource settings. Analyst, The, 0, , .	3.5	3