

Sanghyo Kim

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,377
citations

331670

21
h-index

377865

34
g-index

66
all docs

66
docs citations

66
times ranked

2275
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual gold nanoparticle conjugate-based lateral flow assay (LFA) method for the analysis of troponin I. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1999-2002.	10.1	230
2	A Paper-Based Device for Performing Loop-Mediated Isothermal Amplification with Real-Time Simultaneous Detection of Multiple DNA Targets. <i>Theranostics</i> , 2017, 7, 2220-2230.	10.0	108
3	Recent analytical approaches to detect exhaled breath ammonia with special reference to renal patients. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 21-31.	3.7	50
4	Recent trends in the development of diagnostic tools for diabetes mellitus using patient saliva. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 89, 60-67.	11.4	49
5	Recent developments in the nanostructured materials functionalized with ruthenium complexes for targeted drug delivery to tumors. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2749-2758.	6.7	39
6	Influence of Nanotoxicity on Human Health and Environment: The Alternative Strategies. <i>Reviews of Environmental Contamination and Toxicology</i> , 2016, 242, 61-104.	1.3	37
7	Quercetin mediated gold nanoclusters explored as a dual functional nanomaterial in anticancer and bio-imaging disciplines. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 230-237.	5.0	36
8	Pumpless steady-flow microfluidic chip for cell culture. <i>Analytical Biochemistry</i> , 2013, 437, 161-163.	2.4	35
9	An ultrasensitive method of real time pH monitoring with complementary metal oxide semiconductor image sensor. <i>Analytica Chimica Acta</i> , 2015, 858, 55-59.	5.4	32
10	Synthesis and characterization of kaempferol-based ruthenium (II) complex: A facile approach for superior anticancer application. <i>Materials Science and Engineering C</i> , 2018, 89, 87-94.	7.3	32
11	Synthesis and characterization of acetyl curcumin-loaded core/shell liposome nanoparticles via an electrospray process for drug delivery, and theranostic applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 142, 518-530.	4.3	31
12	A Transdermal Delivery System to Enhance Quercetin Nanoparticle Permeability. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 185-209.	3.5	28
13	Current and emerging applications of nanostructured metal-organic frameworks in cancer-targeted theranostics. <i>Materials Science and Engineering C</i> , 2019, 105, 110091.	7.3	27
14	Photoprotective effects of apple peel nanoparticles. <i>International Journal of Nanomedicine</i> , 2014, 9, 93.	6.7	25
15	Development of simple and sensitive hydrogel based colorimetric sensor array for the real-time quantification of gaseous ammonia. <i>Materials Science and Engineering C</i> , 2017, 72, 583-589.	7.3	25
16	Drug and bioactive molecule screening based on a bioelectrical impedance cell culture platform. <i>International Journal of Nanomedicine</i> , 2014, 9, 5789.	6.7	24
17	Recent insights into the development of nucleic acid-based nanoparticles for tumor-targeted drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 315-322.	5.0	24
18	Simultaneous quantification of multiple biomarkers on a self-calibrating microfluidic paper-based analytic device. <i>Analytica Chimica Acta</i> , 2020, 1097, 120-126.	5.4	24

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19	A novel CMOS image sensor system for quantitative loop-mediated isothermal amplification assays to detect food-borne pathogens. <i>Journal of Microbiological Methods</i> , 2017, 133, 1-7.	1.6	23
20	Smartphone coupled handheld array reader for real-time toxic gas detection. <i>Analytica Chimica Acta</i> , 2017, 984, 168-176.	5.4	23
21	Ruthenium(II)-curcumin liposome nanoparticles: Synthesis, characterization, and their effects against cervical cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111773.	5.0	23
22	Covalent, Non-Covalent, Encapsulated Nanodrug Regulate the Fate of Intra- and Extracellular Trafficking: Impact on Cancer and Normal Cells. <i>Scientific Reports</i> , 2017, 7, 6454.	3.3	21
23	Recent trends in the development of complementary metal oxide semiconductor image sensors to detect foodborne bacterial pathogens. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 47-57.	11.4	21
24	An innovative blood plasma separation method for a paper-based analytical device using chitosan functionalization. <i>Analyst, The</i> , 2020, 145, 5491-5499.	3.5	21
25	An ultra-sensitive biophysical risk assessment of light effect on skin cells. <i>Oncotarget</i> , 2017, 8, 47861-47875.	1.8	20
26	Impedance-Based Cell Culture Platform To Assess Light-Induced Stress Changes with Antagonist Drugs Using Retinal Cells. <i>Analytical Chemistry</i> , 2013, 85, 4902-4911.	6.5	19
27	Whole blood glucose analysis based on smartphone camera module. <i>Journal of Biomedical Optics</i> , 2015, 20, 117001.	2.6	18
28	Light-induced anatomical alterations in retinal cells. <i>Analytical Biochemistry</i> , 2013, 436, 84-92.	2.4	17
29	A Novel Paper-plastic Microfluidic Hybrid Chip Integrated with a Lateral Flow Immunoassay for Dengue Nonstructural Protein 1 Antigen Detection. <i>Biochip Journal</i> , 2019, 13, 277-287.	4.9	17
30	An efficient analysis of nanomaterial cytotoxicity based on bioimpedance. <i>Nanotechnology</i> , 2010, 21, 375501.	2.6	16
31	Smartphone-based image analysis coupled to paper-based colorimetric devices. <i>Current Applied Physics</i> , 2020, 20, 1013-1018.	2.4	16
32	A novel paper-plastic hybrid device for the simultaneous loop-mediated isothermal amplification and detection of DNA. <i>Materials Letters</i> , 2018, 214, 243-246.	2.6	15
33	Lanthanum mediated rutin yellow-fluorescent carbon dots as multifaceted sensing probes for the detection of calcium ions in melanoma and plant cells. <i>Materials Science and Engineering C</i> , 2021, 120, 111644.	7.3	15
34	Evaluation of UV radiation-induced toxicity and biophysical changes in various skin cells with photo-shielding molecules. <i>Analyst, The</i> , 2015, 140, 6343-6353.	3.5	14
35	Development of novel complementary metal-oxide semiconductor-based colorimetric sensors for rapid detection of industrially important gases. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 600-608.	7.8	14
36	Toward CMOS image sensor based glucose monitoring. <i>Analyst, The</i> , 2012, 137, 3917.	3.5	13

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37	CMOS image sensor for detection of interferon gamma protein interaction as a point-of-care approach. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1641-1649.	3.7	12
38	A CMOS image sensor to recognize the cardiovascular disease markers troponin I and C-reactive protein. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 813-821.	3.7	12
39	Facile design and spectroscopic characterization of novel bio-inspired Quercetin-conjugated tetrakis (dimethylsulfoxide)dichlororuthenium(II) complex for enhanced anticancer properties. <i>Inorganica Chimica Acta</i> , 2019, 495, 118989.	2.4	11
40	Complementary Metal-Oxide Semiconductor (CMOS) Image Sensor: An Insight as a Point-of-Care Label-Free Immunosensor. <i>Analytical Sciences</i> , 2010, 26, 1215-1217.	1.6	10
41	Overview of CMOS image sensor use in molecular diagnostics. <i>Current Applied Physics</i> , 2015, 15, 402-411.	2.4	10
42	Real-time DNA Amplification and Detection System Based on a CMOS Image Sensor. <i>Analytical Sciences</i> , 2016, 32, 653-658.	1.6	10
43	Recent insights into the development of nanotechnology to detect circulating tumor cells. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 82, 191-198.	11.4	10
44	CMOS image sensors as an efficient platform for glucose monitoring. <i>Analyst, The</i> , 2013, 138, 5679.	3.5	9
45	Label Free Quantitative Immunoassay for Hepatitis B. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 85-92.	0.9	9
46	A rapid real-time quantification in hybrid paper-polymer centrifugal optical devices. <i>Biosensors and Bioelectronics</i> , 2019, 126, 200-206.	10.1	9
47	CMOS image sensor based HIV diagnosis: a smart system for point-of-care approach. <i>Biochip Journal</i> , 2013, 7, 258-266.	4.9	8
48	A New Kaempferol-based Ru(II) Coordination Complex, Ru(kaem)Cl(DMSO) ₃ : Structure and Absorption Emission Spectroscopy Study. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1625-1631.	1.9	8
49	Potential anticancer applications of the novel naringin-based ruthenium (II) complex. <i>3 Biotech</i> , 2019, 9, 181.	2.2	8
50	Synthesis of silver nanoparticles conjugated with kaempferol and hydrocortisone and an evaluation of their antibacterial effects. <i>3 Biotech</i> , 2021, 11, 317.	2.2	8
51	Effects of agmatine and resveratrol on RGC-5 cell behavior under light stimulation. <i>Environmental Toxicology and Pharmacology</i> , 2014, 38, 84-97.	4.0	7
52	Nanoclusters prepared from ruthenium(II) and quercetin for fluorometric detection of cobalt(II), and a method for screening their anticancer drug activity. <i>Mikrochimica Acta</i> , 2019, 186, 539.	5.0	7
53	Recent trends in the utilization of LAMP for the diagnosis of viruses, bacteria, and allergens in food. , 2021, , 291-297.		7
54	CMOS Image Sensor-based Immunodetection by Refractive-Index Change. <i>Analytical Sciences</i> , 2012, 28, 875-880.	1.6	6

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55	Continuous oxygen supply in pump-less micro-bioreactor based on microfluidics. <i>Biochip Journal</i> , 2015, 9, 1-9.	4.9	6
56	Highly sensitive and rapid detection of porcine circovirus 2 by avidin-biotin complex based lateral flow assay coupled to isothermal amplification. <i>Analytical Methods</i> , 2021, 13, 4429-4436.	2.7	6
57	A simple and innovative sample preparation method for on-site SARS-CoV-2 molecular diagnostics. <i>Analyst, The</i> , 2021, 146, 6917-6923.	3.5	5
58	Rapid and simple detection of influenza virus via isothermal amplification lateral flow assay. <i>Analytical and Bioanalytical Chemistry</i> , 2022, , 1.	3.7	5
59	An electro-conductive plane heating element for rapid thermal lysis of bacterial cells. <i>Journal of Microbiological Methods</i> , 2018, 153, 99-103.	1.6	4
60	Multiplexed detection of biomolecules using a wax printed paper-disc centrifugal optical device. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127195.	7.8	4
61	Warfarin Pharmacogenetics: Single-nucleotide Polymorphism Detection using CMOS Photosensor-based Real-time PCR. <i>Biochip Journal</i> , 2020, 14, 204-210.	4.9	2
62	Smart point-of-care systems for molecular diagnostics based on nanotechnology: whole blood glucose analysis. , 2015, , .		1
63	Clinical evaluation of an innovative isothermal amplification detection system for COVID-19 diagnosis. <i>Analytical Methods</i> , 0, , .	2.7	1
64	ECIS to assess human skin cell photo-oxidative damage. , 2013, , .		0
65	Simultaneous quantification of biomarkers using wax-patterned paper-polymer centrifugal optics. , 2019, , .		0
66	Colorimetric detection of acetylcholinesterase using paper hybrid centrifugal fluidic on disc platform. , 2019, , .		0