

Kan Wang

List of Publications by Year in descending order

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67
papers

3,947
citations

108046

37
h-index

134545

62
g-index

69
all docs

69
docs citations

69
times ranked

7609
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation and improvements of a magnetic flux sensor for application in immunomagnetic biosensing platforms. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113299.	2.0	7
2	Nanozyme enhanced magnetic immunoassay for dual-mode detection of gastrin-17. <i>Analyst, The</i> , 2022, 147, 1678-1687.	1.7	10
3	Rapid segmentation and sensitive analysis of CRP with paper-based microfluidic device using machine learning. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3959-3970.	1.9	9
4	Magnetic frequency mixing technological advances for the practical improvement of point-of-care testing. <i>Biotechnology and Bioengineering</i> , 2022, 119, 347-360.	1.7	5
5	Rapid developments in lateral flow immunoassay for nucleic acid detection. <i>Analyst, The</i> , 2021, 146, 1514-1528.	1.7	53
6	Breath analysis based early gastric cancer classification from deep stacked sparse autoencoder neural network. <i>Scientific Reports</i> , 2021, 11, 4014.	1.6	32
7	Multifunctional Nano-Sunflowers with Color-Magnetic-Raman Properties for Multimodal Lateral Flow Immunoassay. <i>Analytical Chemistry</i> , 2021, 93, 3626-3634.	3.2	39
8	Strategies for the detection of target analytes using microfluidic paper-based analytical devices. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2429-2445.	1.9	24
9	Recent developments in sensors for wearable device applications. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6037-6057.	1.9	59
10	Highly sensitive and portable mRNA detection platform for early cancer detection. <i>Journal of Nanobiotechnology</i> , 2021, 19, 287.	4.2	7
11	Radiomics Analysis to Enhance Precise Identification of Epidermal Growth Factor Receptor Mutation Based on Positron Emission Tomography Images of Lung Cancer Patients. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 691-702.	0.5	6
12	Deep Learning on chromatographic data for Segmentation and Sensitive Analysis. <i>Journal of Chromatography A</i> , 2020, 1634, 461680.	1.8	10
13	Development of magnetic sensor technologies for point-of-care testing: Fundamentals, methodologies and applications. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112130.	2.0	32
14	Smartphone-imaged multilayered paper-based analytical device for colorimetric analysis of carcinoembryonic antigen. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2517-2528.	1.9	46
15	A plasmonic thermal sensing based portable device for lateral flow assay detection and quantification. <i>Nanoscale Research Letters</i> , 2020, 15, 10.	3.1	32
16	Algorithms for immunochromatographic assay: review and impact on future application. <i>Analyst, The</i> , 2019, 144, 5659-5676.	1.7	30
17	Machine Learning Approach to Enhance the Performance of MNP-Labeled Lateral Flow Immunoassay. <i>Nano-Micro Letters</i> , 2019, 11, 7.	14.4	52
18	Detection platforms for point-of-care testing based on colorimetric, luminescent and magnetic assays: A review. <i>Talanta</i> , 2019, 202, 96-110.	2.9	133

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19	In vivo and in situ real-time fluorescence imaging of peripheral nerves in the NIR-II window. <i>Nano Research</i> , 2019, 12, 3059-3068.	5.8	19
20	Developing Gold Nanoparticles-Conjugated Aflatoxin B1 Antifungal Strips. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6260.	1.8	18
21	Mimicking Pathogenic Invasion with the Complexes of Au ²² (SG) ¹⁸ -Engineered Assemblies and Folic Acid. <i>ACS Nano</i> , 2018, 12, 4408-4418.	7.3	42
22	High performance immunochromatographic assay for simultaneous quantitative detection of multiplex cardiac markers based on magnetic nanobeads. <i>Theranostics</i> , 2018, 8, 6121-6131.	4.6	55
23	Investigation of the Viability of Cells upon Co-Exposure to Gold and Iron Oxide Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018, 29, 2120-2125.	1.8	14
24	Dual Immunomagnetic Nanobeads-Based Lateral Flow Test Strip for Simultaneous Quantitative Detection of Carcinoembryonic Antigen and Neuron Specific Enolase. <i>Scientific Reports</i> , 2017, 7, 42414.	1.6	54
25	Smartphone-Based Dual-Modality Imaging System for Quantitative Detection of Color or Fluorescent Lateral Flow Immunochromatographic Strips. <i>Nanoscale Research Letters</i> , 2017, 12, 291.	3.1	48
26	Use of quantum dot beads-labeled monoclonal antibody to improve the sensitivity of a quantitative and simultaneous immunochromatographic assay for neuron specific enolase and carcinoembryonic antigen. <i>Talanta</i> , 2017, 164, 463-469.	2.9	61
27	Large-scale immuno-magnetic cell sorting of T cells based on a self-designed high-throughput system for potential clinical application. <i>Nanoscale</i> , 2017, 9, 13592-13599.	2.8	24
28	Carcinoembryonic antigen detection with "Handing"-controlled fluorescence spectroscopy using a color matrix for point-of-care applications. <i>Biosensors and Bioelectronics</i> , 2017, 90, 508-515.	5.3	43
29	Smartphone-Based Fluorescent Diagnostic System for Immunochromatographic Chip. <i>Nano Biomedicine and Engineering</i> , 2017, 9, .	0.3	4
30	Dendrimer-Modified Gold Nanorods as High Efficient Controlled Gene Delivery Release System under Near-Infrared Light Irradiation. <i>Nano Biomedicine and Engineering</i> , 2017, 9, .	0.3	2
31	Contactless Measurement of Magnetic Nanoparticles on Lateral Flow Strips Using Tunneling Magnetoresistance (TMR) Sensors in Differential Configuration. <i>Sensors</i> , 2016, 16, 2130.	2.1	40
32	CdSe/ZnS Quantum Dot-Labeled Lateral Flow Strips for Rapid and Quantitative Detection of Gastric Cancer Carbohydrate Antigen 72-4. <i>Nanoscale Research Letters</i> , 2016, 11, 138.	3.1	33
33	Simultaneous Quantitative Detection of Helicobacter Pylori Based on a Rapid and Sensitive Testing Platform using Quantum Dots-Labeled Immunochromatographic Test Strips. <i>Nanoscale Research Letters</i> , 2016, 11, 62.	3.1	18
34	Rapid detection and quantification of tumor marker carbohydrate antigen 72-4 (CA72-4) using a superparamagnetic immunochromatographic strip. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2319-2327.	1.9	37
35	Potassium sodium tartrate-assisted hydrothermal synthesis of BaLuF5:Yb ³⁺ /Er ³⁺ nanocrystals. <i>Particuology</i> , 2016, 24, 164-169.	2.0	9
36	The Application of Lateral Flow Immunoassay in Point of Care Testing: A Review. <i>Nano Biomedicine and Engineering</i> , 2016, 8, .	0.3	50

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37	Regression of Gastric Cancer by Systemic Injection of RNA Nanoparticles Carrying both Ligand and siRNA. <i>Scientific Reports</i> , 2015, 5, 10726.	1.6	89
38	A Novel Electrochemical Microfluidic Chip Combined with Multiple Biomarkers for Early Diagnosis of Gastric Cancer. <i>Nanoscale Research Letters</i> , 2015, 10, 477.	3.1	53
39	Circulating MiR-16-5p and MiR-19b-3p as Two Novel Potential Biomarkers to Indicate Progression of Gastric Cancer. <i>Theranostics</i> , 2015, 5, 733-745.	4.6	133
40	Gold Nanoclusters-Based Nanoprobes for Simultaneous Fluorescence Imaging and Targeted Photodynamic Therapy with Superior Penetration and Retention Behavior in Tumors. <i>Advanced Functional Materials</i> , 2015, 25, 1314-1325.	7.8	180
41	A novel wind power equivalent method based on clustering of multivariable panel data. , 2014, , .		0
42	Enhanced in Vivo Delivery of 5-Fluorouracil by Ethosomal Gels in Rabbit Ear Hypertrophic Scar Model. <i>International Journal of Molecular Sciences</i> , 2014, 15, 22786-22800.	1.8	11
43	A CCD-based reader combined with CdS quantum dot-labeled lateral flow strips for ultrasensitive quantitative detection of CagA. <i>Nanoscale Research Letters</i> , 2014, 9, 57.	3.1	39
44	A novel HBV genotypes detecting system combined with microfluidic chip, loop-mediated isothermal amplification and GMR sensors. <i>Biosensors and Bioelectronics</i> , 2014, 54, 372-377.	5.3	73
45	BRCA1 antibody- and Her2 antibody-conjugated amphiphilic polymer engineered CdSe/ZnS quantum dots for targeted imaging of gastric cancer. <i>Nanoscale Research Letters</i> , 2014, 9, 244.	3.1	33
46	RGD-conjugated silica-coated gold nanorods on the surface of carbon nanotubes for targeted photoacoustic imaging of gastric cancer. <i>Nanoscale Research Letters</i> , 2014, 9, 264.	3.1	71
47	HAI-178 antibody-conjugated fluorescent magnetic nanoparticles for targeted imaging and simultaneous therapy of gastric cancer. <i>Nanoscale Research Letters</i> , 2014, 9, 274.	3.1	17
48	Identification of Volatile Biomarkers of Gastric Cancer Cells and Ultrasensitive Electrochemical Detection based on Sensing Interface of Au-Ag Alloy coated MWCNTs. <i>Theranostics</i> , 2014, 4, 154-162.	4.6	79
49	Systematic safety evaluation on photoluminescent carbon dots. <i>Nanoscale Research Letters</i> , 2013, 8, 122.	3.1	167
50	Toxicity Assessments of Near-infrared Upconversion Luminescent LaF ₃ :Yb,Er in Early Development of Zebrafish Embryos. <i>Theranostics</i> , 2013, 3, 258-266.	4.6	76
51	DiR-labeled Embryonic Stem Cells for Targeted Imaging of <i>in vivo</i> Gastric Cancer Cells. <i>Theranostics</i> , 2012, 2, 618-628.	4.6	68
52	HER2 monoclonal antibody conjugated RNase-A-associated CdTe quantum dots for targeted imaging and therapy of gastric cancer. <i>Biomaterials</i> , 2012, 33, 7093-7102.	5.7	80
53	Fluorescent magnetic nanoparticle-labeled mesenchymal stem cells for targeted imaging and hyperthermia therapy of <i>in vivo</i> gastric cancer. <i>Nanoscale Research Letters</i> , 2012, 7, 309.	3.1	76
54	Superparamagnetic Fe ₃ O ₄ -Ag hybrid nanocrystals as a potential contrast agent for CT imaging. <i>CrystEngComm</i> , 2012, 14, 7556.	1.3	11

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55	A CCD-Based Reader Combined Quantum Dots-Labeled Lateral Flow Strips for Ultrasensitive Quantitative Detection of Anti-HBs Antibody. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 372-379.	0.5	30
56	Biocompatibility of Graphene Oxide. <i>Nanoscale Research Letters</i> , 2011, 6, 8.	3.1	728
57	Single Walled Carbon Nanotubes Exhibit Dual-Phase Regulation to Exposed Arabidopsis Mesophyll Cells. <i>Nanoscale Research Letters</i> , 2011, 6, 44.	3.1	42
58	One-step synthesis of Fe ₃ O ₄ @C nanotubes for the immobilization of adriamycin. <i>Journal of Materials Chemistry</i> , 2011, 21, 12224.	6.7	25
59	Gram scale synthesis of superparamagnetic Fe ₃ O ₄ nanoparticles and fluid via a facile solvothermal route. <i>CrystEngComm</i> , 2011, 13, 1782-1785.	1.3	47
60	Efficient preparation and labeling of human induced pluripotent stem cells by nanotechnology. <i>International Journal of Nanomedicine</i> , 2011, 6, 425.	3.3	41
61	BRCA1 monoclonal antibody conjugated fluorescent magnetic nanoparticles for in vivo targeted magnetofluorescent imaging of gastric cancer. <i>Journal of Nanobiotechnology</i> , 2011, 9, 23.	4.2	59
62	Biocompatibility of hydrophilic silica-coated CdTe quantum dots and magnetic nanoparticles. <i>Nanoscale Research Letters</i> , 2011, 6, 299.	3.1	40
63	Photosensitizer-conjugated magnetic nanoparticles for in vivo simultaneous magnetofluorescent imaging and targeting therapy. <i>Biomaterials</i> , 2011, 32, 3447-3458.	5.7	253
64	A Novel Quantum Dots-Based Point of Care Test for Syphilis. <i>Nanoscale Research Letters</i> , 2010, 5, 875-881.	3.1	82
65	Anti-HIF-1 α antibody-conjugated pluronic triblock copolymers encapsulated with Paclitaxel for tumor targeting therapy. <i>Biomaterials</i> , 2010, 31, 2302-2312.	5.7	106
66	A general strategy for metallic nanocrystals synthesis in organic medium. <i>Chemical Communications</i> , 2010, 46, 4800.	2.2	40
67	Fluorescent Magnetic Nanoprobes for in vivo Targeted Imaging and Hyperthermia Therapy of Prostate Cancer. <i>Nano Biomedicine and Engineering</i> , 2009, 1, .	0.3	41