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List of Publications by Year
in descending order

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68	2,356	201674	223800
papers	citations	27 h-index	46 g-index

69	69	69	3251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent applications of carbon-based nanomaterials in analytical chemistry: Critical review. Analytica Chimica Acta, 2011, 691, 6-17.	5.4	381
2	Determination of melatonin in wine and plant extracts by capillary electrochromatography with immobilized carboxylic multiâ€walled carbon nanotubes as stationary phase. Electrophoresis, 2010, 31, 2242-2248.	2.4	150
3	Integrated microfluidic systems with an immunosensor modified with carbon nanotubes for detection of prostate specific antigen (PSA) in human serum samples. Biosensors and Bioelectronics, 2008, 23, 1145-1151.	10.1	112
4	Different approaches for the detection of thrombin by an electrochemical aptamer-based assay coupled to magnetic beads. Biosensors and Bioelectronics, 2008, 23, 1602-1609.	10.1	94
5	Microfluidic immunosensor design for the quantification of interleukin-6 in human serum samples. Analytical Biochemistry, 2008, 380, 262-267.	2.4	63
6	Modified paramagnetic beads in a microfluidic system for the determination of ethinylestradiol (EE2) in river water samples. Biosensors and Bioelectronics, 2010, 25, 1376-1381.	10.1	60
7	A microfluidic device based on a screen-printed carbon electrode with electrodeposited gold nanoparticles for the detection of IgG anti-Trypanosoma cruzi antibodies. Analyst, The, 2011, 136, 4745.	3.5	60
8	Novel Electrochemical Paper-Based Immunocapture Assay for the Quantitative Determination of Ethinylestradiol in Water Samples. Analytical Chemistry, 2018, 90, 4104-4111.	6.5	60
9	Modified paramagnetic beads in a microfluidic system for the determination of zearalenone in feedstuffs samples. Food Chemistry, 2011, 125, 791-796.	8.2	55
10	Microfluidic immunosensor based on mesoporous silica platform and CMK-3/poly-acrylamide-co-methacrylate of dihydrolipoic acid modified gold electrode for cancer biomarker detection. Analytica Chimica Acta, 2017, 963, 83-92.	5.4	50
11	Amperometric biosensor based on laccase immobilized onto a nanostructured screen-printed electrode for determination of polyphenols in propolis. Microchemical Journal, 2019, 144, 13-18.	4.5	50
12	Electrochemical detection of a powerful estrogenic endocrine disruptor: Ethinylestradiol in water samples through bioseparation procedure. Analytica Chimica Acta, 2012, 723, 27-32.	5.4	48
13	Zearalenone determination in corn silage samples using an immunosensor in a continuous-flow/stopped-flow systems. Biochemical Engineering Journal, 2010, 51, 7-13.	3.6	47
14	Epithelial cancer biomarker EpCAM determination in peripheral blood samples using a microfluidic immunosensor based in silver nanoparticles as platform. Sensors and Actuators B: Chemical, 2015, 221, 248-256.	7.8	45
15	Determination of Ochratoxin A in apples contaminated with Aspergillus ochraceus by using a microfluidic competitive immunosensor with magnetic nanoparticles. Analyst, The, 2011, 136, 2756.	3.5	44
16	Determination of progesterone (P4) from bovine serum samples using a microfluidic immunosensor system. Talanta, 2010, 80, 1986-1992.	5.5	41
17	Screen-printed enzymatic biosensor modified with carbon nanotube for the methimazole determination in pharmaceuticals formulations. Sensors and Actuators B: Chemical, 2008, 133, 256-262.	7.8	39
18	Laser-induced fluorescence integrated in a microfluidic immunosensor for quantification of human serum IgG antibodies to Helicobacter pylori. Sensors and Actuators B: Chemical, 2012, 168, 297-302.	7.8	39

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19	Integrated microfluidic magnetic immunosensor for quantification of human serum IgG antibodies to Helicobacter pylori. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 253-257.	2.3	35
20	Silica nanoparticle-based microfluidic immunosensor with laser-induced fluorescence detection for the quantification of immunoreactive trypsin. Analytical Biochemistry, 2014, 463, 31-37.	2.4	34
21	Nanostructured platform integrated into a microfluidic immunosensor coupled to laser-induced fluorescence for the epithelial cancer biomarker determination. Microchemical Journal, 2016, 128, 18-25.	4.5	34
22	Integrated bio-affinity nano-platform into a microfluidic immunosensor based on monoclonal bispecific trifunctional antibodies for the electrochemical determination of epithelial cancer biomarker. Clinica Chimica Acta, 2017, 464, 64-71.	1.1	33
23	Novel electrochemical sensing platform based on a nanocomposite of PVA/PVP/RGO applied to IgG anti-Toxoplasma gondii antibodies quantitation. Talanta, 2019, 195, 699-705.	5.5	31
24	Screen-printed immunosensor modified with carbon nanotubes in a continuous-flow system for the Botrytis cinerea determination in apple tissues. Talanta, 2009, 79, 681-686.	5.5	30
25	Determination of Î²-glucosidase activity in soils with a bioanalytical sensor modified with multiwalled carbon nanotubes. Analytical and Bioanalytical Chemistry, 2010, 397, 1347-1353.	3.7	30
26	Nanomaterials in fluorescent laser-based immunosensors: Review and applications. Microchemical Journal, 2018, 141, 308-323.	4.5	30
27	Serological diagnosis of Toxoplasmosis disease using a fluorescent immunosensor with chitosan-ZnO-nanoparticles. Analytical Biochemistry, 2019, 564-565, 116-122.	2.4	30
28	EGFR detection in extracellular vesicles of breast cancer patients through immunosensor based on silica-chitosan nanoplatform. Talanta, 2019, 194, 243-252.	5.5	28
29	IgG anti-gliadin determination with an immunological microfluidic system applied to the automated diagnostic of the celiac disease. Analytical and Bioanalytical Chemistry, 2010, 396, 2921-2927.	3.7	27
30	Paper-based enzymatic platform coupled to screen printed graphene-modified electrode for the fast neonatal screening of phenylketonuria. Clinica Chimica Acta, 2018, 486, 59-65.	1.1	27
31	Modified magnetic nanoparticles in an electrochemical method for the ochratoxin A determination in Vitis vinifera red grapes tissues. Talanta, 2010, 83, 651-657.	5.5	26
32	A combination of single-drop microextraction and open tubular capillary electrochromatography with carbon nanotubes as stationary phase for the determination of low concentration of illicit drugs in horse urine. Talanta, 2011, 86, 278-283.	5.5	26
33	Microfluidic Immunosensor with Micromagnetic Beads Coupled to Carbon-Based Screen-Printed Electrodes (SPCEs) for Determination of Botrytis cinerea in Tissue of Fruits. Journal of Agricultural and Food Chemistry, 2010, 58, 11201-11206.	5.2	25
34	Microfluidic immunosensor with gold nanoparticle platform for the determination of immunoglobulin G anti-Echinococcus granulosus antibodies. Analytical Biochemistry, 2011, 409, 98-104.	2.4	24
35	Development of a nanostructured immunosensor for early and in situ detection of Xanthomonas arboricola in agricultural food production. Talanta, 2017, 175, 535-541.	5.5	24
36	Electrochemical microfluidic immunosensor based on TES-AuNPs@Fe3O4 and CMK-8 for IgG anti-Toxocara canis determination. Analytica Chimica Acta, 2020, 1096, 120-129.	5.4	24

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37	Continuous-flow/stopped-flow system for determination of ascorbic acid using an enzymatic rotating bioreactor. Talanta, 2004, 64, 1009-1017.	5.5	23
38	Mesoporous immunosensor applied to zearalenone determination in Amaranthus cruentus seeds. Microchemical Journal, 2018, 141, 388-394.	4.5	21
39	Microfluidic-enzymatic biosensor with immobilized tyrosinase for electrochemical detection of pipemidic acid in pharmaceutical samples. Journal of Electroanalytical Chemistry, 2011, 651, 204-210.	3.8	20
40	Electrochemical immunosensor modified with carbon nanofibers coupled to a paper platform for the determination of gliadins in food samples. Analytical Methods, 2019, 11, 2170-2178.	2.7	20
41	Continuous-flow/stopped-flow system using an immunobiosensor for quantification of human serum IgG antibodies to Helicobacter pylori. Analytical Biochemistry, 2005, 337, 195-202.	2.4	18
42	On-line microfluidic sensor integrated with an enzyme-modified pre-cell for the monitoring of paracetamol in pharmaceutical samples. Analytica Chimica Acta, 2006, 559, 152-158.	5.4	18
43	Online immunoaffinity assayâ€CE using magnetic nanobeads for the determination of antiâ€Helicobacter pylori IgG in human serum. Electrophoresis, 2010, 31, 3475-3481.	2.4	18
44	Graphene-based materials as solid phase extraction sorbent for chromium(VI) determination in red wine. Microchemical Journal, 2018, 141, 418-422.	4.5	17
45	Determination of arylsulphatase and phosphatase enzyme activities in soil using screen-printed electrodes modified with multi-walled carbon nanotubes. Soil Biology and Biochemistry, 2009, 41, 2444-2452.	8.8	16
46	Environmental monitoring of phenolic pollutants in water by cloud point extraction prior to micellar electrokinetic chromatography. Analytical and Bioanalytical Chemistry, 2009, 394, 567-573.	3.7	16
47	Electrochemical immunosensing using a nanostructured functional platform for determination of Î±-zearalanol. Mikrochimica Acta, 2015, 182, 531-538.	5.0	15
48	Paper surface modification strategies employing N-SBA-15/polymer composites in bioanalytical sensor design. Talanta, 2019, 200, 186-192.	5.5	15
49	Comparative study of different methodologies for the determination the antioxidant activity of Venezuelan propolis. Microchemical Journal, 2020, 158, 105244.	4.5	15
50	Ethinylestradiol quantification in drinking water sources using a fluorescent paper based immunosensor. Microchemical Journal, 2018, 141, 287-293.	4.5	14
51	Screen-printed immunosensor for quantification of human serum IgG antibodies to Helicobacter pylori. Sensors and Actuators B: Chemical, 2007, 128, 23-30.	7.8	12
52	Larrea divaricata Cav (Jarilla): Production of Superoxide Anion, Hydrogen Peroxide and Expression of Zymosan Receptors. Immunopharmacology and Immunotoxicology, 2008, 30, 489-501.	2.4	12
53	Fluorescent immunosensor using AP-SNs and QDs for quantitation of IgG anti-Toxocara canis. Microchemical Journal, 2017, 130, 436-441.	4.5	12
54	Development of a nanostructured electrochemical immunosensor applied to the early detection of invasive aspergillosis. Microchemical Journal, 2018, 139, 394-400.	4.5	11

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55	Development of an indirect competitive enzyme-linked immunosorbent assay applied to the Botrytis cinerea quantification in tissues of postharvest fruits. BMC Microbiology, 2011, 11, 220.	3.3	10
56	Paper based analytical device modified with nanoporous material for the fluorescent sensing of gliadin content in different food samples. Microchemical Journal, 2018, 142, 78-84.	4.5	10
57	Electrochemical Study of the Antioxidant Activity and the Synergic Effect of Selenium with Natural and Synthetic Antioxidants. Analytical Letters, 2010, 43, 2078-2090.	1.8	9
58	Screening for cystic fibrosis via a magnetic and microfluidic immunoassay format with electrochemical detection using a copper nanoparticle-modified gold electrode. Mikrochimica Acta, 2016, 183, 397-405.	5.0	9
59	Nanostructured electrode using CMK-8/CuNPs platform for herbicide detection in environmental samples. Microchemical Journal, 2020, 157, 105014.	4.5	9
60	A nanostructured paper-based device for phenylalanine neonatal screening by LED-induced fluorescence. Analytical Methods, 2020, 12, 1624-1630.	2.7	9
61	Immuno-column for on-line quantification of human serum IgG antibodies to Helicobacter pylori in human serum samples. Talanta, 2008, 76, 1077-1082.	5.5	8
62	Zinc oxide nanoparticles based microfluidic immunosensor applied in congenital hypothyroidism screening. Analytical and Bioanalytical Chemistry, 2014, 406, 4677-4684.	3.7	8
63	Immunosensor based on porous gold and reduced graphene platform for the determination of EE2 by electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2021, 897, 115604.	3.8	8
64	Determination of the Î²-Glucosidase Activity in Different Soils by Pre Capillary Enzyme Assay Using Capillary Electrophoresis with Laser-Induced Fluorescence Detection. Journal of Fluorescence, 2010, 20, 517-523.	2.5	7
65	Microfluidic fluorescence immunosensor using ZnONFs for invasive aspergillosis determination. Microchemical Journal, 2020, 159, 105371.	4.5	7
66	Easily Multiplexable Immunoplatform to Assist Heart Failure Diagnosis through Amperometric Determination of Galectinâ€3. Electroanalysis, 2020, 32, 2775-2785.	2.9	4
67	Micellar electrokinetic chromatography after precapillary enzyme assay for the determination of phosphatase activity in semiarid soil. Biochemical Engineering Journal, 2009, 46, 121-125.	3.6	3
68	Nanomaterials in the Development of Biosensor and Application in the Determination of Pollutants in Water. Nanotechnology in the Life Sciences, 2019, , 195-215.	0.6	2