

Frank

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

3,053
citations

29
h-index

54
g-index

77
ext. papers

3,322
ext. citations

6.1
avg, IF

5.35
L-index

#	Paper	IF	Citations
76	Electrochemical Aptasensor for Detection of Dopamine. <i>Chemosensors</i> , 2020 , 8, 28	4	7
75	A facile optosensing protocol based on molecularly imprinted polymer coated on CdTe quantum dots for highly sensitive and selective amoxicillin detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 255-263	8.5	80
74	A nanocomposite optosensor containing carboxylic functionalized multiwall carbon nanotubes and quantum dots incorporated into a molecularly imprinted polymer for highly selective and sensitive detection of ciprofloxacin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 201, 332-334	4.4	39
73	Multi-parameter measurements using optical fibre long period gratings for indoor air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 217-225	8.5	54
72	A hybrid molecularly imprinted polymer coated quantum dot nanocomposite optosensor for highly sensitive and selective determination of salbutamol in animal feeds and meat samples. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4697-4707	4.4	17
71	Novel flexible enzyme laminate-based sensor for analysis of lactate in sweat. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 502-510	8.5	46
70	Characterisation of thin films of graphene-surfactant composites produced through a novel semi-automated method. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 209-19	3	8
69	Enhancement of electrode performance by a simple casting method using sonochemically exfoliated graphene. <i>Analytical Chemistry</i> , 2015 , 87, 9273-9	7.8	11
68	Detection of the volatile organic compounds emitted from paints using optical fibre long period grating modified with the mesoporous nano-scale coating 2015 ,		2
67	Ultrasonic modification of the viscosity of vegetable, mineral and synthetic oils Effects of nucleating agents and free-radical scavengers. <i>Lubrication Science</i> , 2015 , 27, 177-191	1.3	3
66	LangmuirBlodgett thin film for chloroform detection. <i>Applied Surface Science</i> , 2015 , 350, 129-134	6.7	17
65	A chemical sensor based on a photonic-crystal L3 nanocavity defined in a silicon-nitride membrane. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8700-8706	7.1	7
64	Long period grating based toluene sensor for use with water contamination. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 621-625	8.5	32
63	Modifying monolayer behaviour by incorporating subphase additives and improving LangmuirBlodgett thin film deposition on optical fibres. <i>Materials Chemistry and Physics</i> , 2014 , 144, 179-185	4.4	4
62	Electrical characterisation of stearic acid/calix[4]amine LangmuirBlodgett thin film. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1258-1264	4.4	1
61	The effect of surface pressure modification on the speed of vortex rings. <i>Fluid Dynamics Research</i> , 2014 , 46, 055503	1.2	
60	Ultrasonic Initiation of the Alkaline Hydrolysis of Triglycerides (Saponification) Without Phase Catalysis. <i>Journal of Surfactants and Detergents</i> , 2014 , 17, 133-141	1.9	7

59	Arrays of microelectrodes: technologies for environmental investigations. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 1477-89	4.3	14
58	Label-free impedimetric immunosensors for psoriasis--increased reproducibility and sensitivity using an automated dispensing system. <i>Biosensors and Bioelectronics</i> , 2013 , 44, 198-203	11.8	10
57	Detection and imaging the expression of the trans-membrane protein CD44 in RT112 cells by use of enzyme-labeled antibodies and SECM. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 282-8	11.8	15
56	Template and catalytic effects of DNA in the construction of polypyrrole/DNA composite macro and microelectrodes. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 294-301	11.8	11
55	Electrochemical Detection of TNT at Cobalt Phthalocyanine Mediated Screen-Printed Electrodes and Application to Detection of Airborne Vapours. <i>Electroanalysis</i> , 2013 , 25, 2445-2452	3	11
54	Label-Free Impedimetric Immunosensor for Nerve Growth Factor Protein Constructed Using an Automated Dispensing System. <i>Electroanalysis</i> , 2013 , 25, 1675-1682	3	
53	Recent trends in antibody based sensors. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 12-24	11.8	205
52	Current trends in explosive detection techniques. <i>Talanta</i> , 2012 , 88, 14-29	6.2	355
51	Monolayer behavior of calix-4-resorcinarenes and their surfactant complexes. <i>Thin Solid Films</i> , 2012 , 520, 6989-6993	2.2	1
50	Layer-by-layer immobilization of carbon dots fluorescent nanomaterials on single optical fiber. <i>Analytica Chimica Acta</i> , 2012 , 735, 90-5	6.6	42
49	A new application of scanning electrochemical microscopy for the label-free interrogation of antibody-antigen interactions: Part 2. <i>Analytica Chimica Acta</i> , 2012 , 741, 1-8	6.6	12
48	A Membrane-Based ELISA Assay for the Herbicide Isoproturon in Soil Samples. <i>Analytical Letters</i> , 2012 , 45, 99-109	2.2	2
47	Lactate in human sweat: a critical review of research to the present day. <i>Journal of Physiological Sciences</i> , 2012 , 62, 429-40	2.3	120
46	Cubic molecularly imprinted polymer nanoparticles with a fluorescent core. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5196-9	16.4	58
45	Conjugated Polymers with Pendant Iniferter Units: Versatile Materials for Grafting. <i>Macromolecules</i> , 2011 , 44, 1856-1865	5.5	20
44	2011 ,		84
43	A membrane-based immunosensor for the analysis of the herbicide isoproturon. <i>Analytica Chimica Acta</i> , 2011 , 699, 223-31	6.6	28
42	Electrochemical Detection of Uric Acid in Mixed and Clinical Samples: A Review. <i>Electroanalysis</i> , 2011 , 23, 305-320	3	132

41	Construction and interrogation of enzyme microarrays using scanning electrochemical microscopy - optimisation of adsorption and determination of enzymatic activity. <i>Analyst, The</i> , 2011 , 136, 5287-93	5	8
40	A new application of scanning electrochemical microscopy for the label-free interrogation of antibody-antigen interactions. <i>Analytica Chimica Acta</i> , 2011 , 689, 206-11	6.6	15
39	Sonochemically fabricated microelectrode arrays for use as sensing platforms. <i>Sensors</i> , 2010 , 10, 5090-1338	3.2	6
38	Label-free immunochemistry approach to detect and identify antibiotics in milk. <i>Pediatric Research</i> , 2010 , 67, 476-80	3.2	18
37	Labelless Immunosensor Assay for the Stroke Marker Protein S-100 β Based Upon an AC Impedance Protocol. <i>Analytical Letters</i> , 2010 , 43, 2160-2170	2.2	4
36	Sol-gel based sensor for selective formaldehyde determination. <i>Analytica Chimica Acta</i> , 2010 , 659, 251-76.6	6.6	89
35	Labelless AC impedimetric antibody-based sensors with pgml(-1) sensitivities for point-of-care biomedical applications. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1090-5	11.8	44
34	Hybridization of genomic DNA adsorbed electrostatically onto cationic surfaces. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7897-902	3.4	10
33	Glucose Biosensors Recent Advances in the Field of Diabetes Management 2009 , 243-292		1
32	Scanning electrochemical microscopy of genomic DNA microarrays--study of adsorption and subsequent interactions. <i>Analyst, The</i> , 2009 , 134, 1302-8	5	15
31	Chimeric polymers formed from a monomer capable of free radical, oxidative and electrochemical polymerisation. <i>Chemical Communications</i> , 2009 , 2759-61	5.8	22
30	Calix[4]resorcinarene-surfactant complexes: formulation, structure and potential sensor applications. <i>Soft Matter</i> , 2009 , 5, 2746	3.6	15
29	Detection of fluoroquinolone antibiotics in milk via a labelless immunoassay based upon an alternating current impedance protocol. <i>Analytical Chemistry</i> , 2008 , 80, 9233-9	7.8	36
28	Label-less immunosensor assay for myelin basic protein based upon an ac impedance protocol. <i>Analytical Chemistry</i> , 2008 , 80, 2058-62	7.8	51
27	Labelless immunosensor assay for the stroke marker protein neuron specific enolase based upon an alternating current impedance protocol. <i>Analytical Chemistry</i> , 2008 , 80, 9411-6	7.8	58
26	Labelless immunosensor assay for prostate specific antigen with picogram per milliliter limits of detection based upon an ac impedance protocol. <i>Analytical Chemistry</i> , 2008 , 80, 6198-205	7.8	60
25	Single gene differentiation by DNA-modified carbon electrodes using an AC impedimetric approach. <i>Analytical Chemistry</i> , 2007 , 79, 1153-7	7.8	40
24	Effect of extraction procedure on measured sugar concentrations in onion (<i>Allium cepa</i> L.) bulbs. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 4299-306	5.7	62

23	Flexible Ultrathin PolyDVB/EVB Composite Membranes for the Optimization of a Whole Blood Glucose Sensor. <i>Electroanalysis</i> , 2007 , 19, 487-495	3	4
22	Flexible Ultrathin PolyDVB/EVB Composite Membranes for the Optimization of a Lactate Sensor. <i>Electroanalysis</i> , 2007 , 19, 567-574	3	8
21	Biofuel cells--recent advances and applications. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1224-35	11.8	445
20	The study of genomic DNA adsorption and subsequent interactions using total internal reflection ellipsometry. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 377-83	11.8	31
19	Electrochromic effects from a simple commercial polymer membrane. <i>Electrochimica Acta</i> , 2007 , 52, 6911-6915	6.7	1
18	Calix[4]arene based molecules for amino-acid detection. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 38-45	8.5	56
17	Chapter 15 Ultra-sensitive determination of pesticides via cholinesterase-based sensors for environmental analysis. <i>Comprehensive Analytical Chemistry</i> , 2007 , 49, 311-330	1.9	4
16	Procedure 24 Construction of an enzyme-containing microelectrode array and use for detection of low levels of pesticides. <i>Comprehensive Analytical Chemistry</i> , 2007 , e169-e176	1.9	1
15	Polydivinylbenzene/Ethylvinylbenzene Composite Membranes for the Optimization of a Whole Blood Glucose Sensor. <i>Electroanalysis</i> , 2006 , 18, 95-102	3	4
14	Langmuir-Blodgett films of preformed polymers containing biphenyl groups. <i>Langmuir</i> , 2005 , 21, 9199-205	4	4
13	Species differentiation by DNA-modified carbon electrodes using an ac impedimetric approach. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1531-8	11.8	46
12	Structured thin films as functional components within biosensors. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 1-20	11.8	155
11	Sonochemically fabricated microelectrode arrays for biosensors. Part III. AC impedimetric study of aerobic and anaerobic response of alcohol oxidase within polyaniline. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 666-71	11.8	13
10	Label-free and reversible immunosensor based upon an ac impedance interrogation protocol. <i>Analytica Chimica Acta</i> , 2005 , 537, 163-168	6.6	53
9	The Construction and Operation of Anion Sensors: Current Status and Future Perspectives. <i>Topics in Current Chemistry</i> , 2005 , 97-124		43
8	Sonochemically fabricated microelectrode arrays for biosensors offering widespread applicability: Part I. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 328-37	11.8	62
7	Calix[4]resorcinarenetetrathiol Modified Gold Electrodes: Applications to the Adsorption and Electrochemical Determination of N-Nitrosamines. <i>Electroanalysis</i> , 2004 , 16, 324-327	3	3
6	An Investigation into Outer-Surface Biofouling and Electrode Passivation Effects on Gold Electrodes Modified with Calix[4]resorcinarenetetrathiol and a PEG Derivative on Exposure to Whole Human Blood. <i>Electroanalysis</i> , 2004 , 16, 275-281	3	7

5	Changing surface hydro- and oleophobicity with resorcinarene multilayers-a simple water/oil proofing process. <i>Langmuir</i> , 2004 , 20, 9075-9	4	6
4	Photochemical polymerization of thiophene derivatives in aqueous solution. <i>Chemical Communications</i> , 2004 , 2222-3	5.8	24
3	Labelless and reversible immunosensor assay based upon an electrochemical current-transient protocol. <i>Analytica Chimica Acta</i> , 2003 , 495, 21-32	6.6	43
2	The electrochemistry of the ferri/ferrocyanide couple at a calix[4]resorcinarenetetrathiol-modified gold electrode as a study of novel electrode modifying coatings for use within electro-analytical sensors. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 549, 119-127	4.1	28
1	Advances and applications in biofuel cells202-214		