

Gabriele Favero

List of Publications by Year in descending order

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123
papers

3,159
citations

156536

32
h-index

214428

50
g-index

128
all docs

128
docs citations

128
times ranked

4590
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural based products for cleaning copper and copper alloys artefacts. <i>Natural Product Research</i> , 2023, 37, 1177-1184.	1.0	5
2	Label-free magnetic nanoparticles-based electrochemical immunosensor for atrazine detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2055-2064.	1.9	11
3	Transient Anomalous Diffusion MRI Measurement Discriminates Porous Polymeric Matrices Characterized by Different Sub-Microstructures and Fractal Dimension. <i>Gels</i> , 2022, 8, 95.	2.1	2
4	Phthalate esters (PAEs) concentration pattern reflects dietary habitats ($\delta^{13}C$) in blood of Mediterranean loggerhead turtles (<i>Caretta caretta</i>). <i>Ecotoxicology and Environmental Safety</i> , 2022, 239, 113619.	2.9	6
5	Polymer composition analysis of plastic debris ingested by loggerhead turtles (<i>Caretta caretta</i>) in Southern Tyrrhenian Sea through ATR-FTIR spectroscopy. <i>Marine Environmental Research</i> , 2022, 179, 105676.	1.1	3
6	Lime Production in the Late Chalcolithic Period: The Case of Arslantepe (Eastern Anatolia). <i>Heritage</i> , 2021, 4, 91-104.	0.9	3
7	Nanostructure-Based Electrochemical Immunosensors as Diagnostic Tools. <i>Electrochem</i> , 2021, 2, 10-28.	1.7	21
8	Single-Sided Portable NMR Investigation to Assess and Monitor Cleaning Action of PVA-Borax Hydrogel in Travertine and Lecce Stone. <i>Molecules</i> , 2021, 26, 3697.	1.7	7
9	Highly Sensitive Hydrogen Peroxide Biosensor Based on Tobacco Peroxidase Immobilized on Phenylenediamine Diazonium Cation Grafted Carbon Nanotubes: Preventing Fenton-like Inactivation at Negative Potential. <i>ChemElectroChem</i> , 2021, 8, 2495-2504.	1.7	4
10	Fast and Reliable Determination of Phthalic Acid Esters in the Blood of Marine Turtles by Means of Solid Phase Extraction Coupled with Gas Chromatography-Ion Trap/Mass Spectrometry. <i>Toxics</i> , 2021, 9, 279.	1.6	7
11	Non-Invasive Assessment of PVA-Borax Hydrogel Effectiveness in Removing Metal Corrosion Products on Stones by Portable NMR. <i>Gels</i> , 2021, 7, 265.	2.1	7
12	Evaluation of different storage processes of passion fruit (<i>Passiflora edulis</i> Sims) using a new dual biosensor platform based on a conducting polymer. <i>Microchemical Journal</i> , 2020, 154, 104573.	2.3	6
13	An ultra performance liquid chromatography coupled with high resolution mass spectrometry method for the screening of cyanotoxins content in drinking water samples. <i>MethodsX</i> , 2020, 7, 101001.	0.7	0
14	A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. <i>Journal of Power Sources</i> , 2020, 476, 228615.	4.0	14
15	An integrated approach to the recovery of travertine biodegradation by combining phyto-cleaning with genomic characterization. <i>Microchemical Journal</i> , 2020, 156, 104918.	2.3	10
16	Phytochemical Compounds as Cleaning Agents on Granite Colonized by Phototrophic Subaerial Biofilms. <i>Coatings</i> , 2020, 10, 295.	1.2	17
17	Multi-residue Ultra Performance Liquid Chromatography-High resolution mass spectrometric method for the analysis of 21 cyanotoxins in surface water for human consumption. <i>Talanta</i> , 2020, 211, 120738.	2.9	14
18	Site-Directed Antibody Immobilization by Resorcinol-Based Immunosensors. <i>Chemistry - A European Journal</i> , 2020, 26, 8400-8406.	1.7	11

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19	Crossing VIMP and EIS for studying heterogeneous sets of copper/bronze coins. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 771-781.	1.2	12
20	PVA hydrogel as polymer electrolyte for electrochemical impedance analysis on archaeological metals. <i>Journal of Cultural Heritage</i> , 2019, 37, 113-120.	1.5	18
21	Application of microemulsions for the removal of synthetic resins from paintings on canvas. <i>Natural Product Research</i> , 2019, 33, 1015-1025.	1.0	6
22	Dating Archaeological Strata in the <i>Magna Mater</i> Temple Using Solid-State Voltammetric Analysis of Leaded Bronze Coins. <i>Electroanalysis</i> , 2018, 30, 361-370.	1.5	20
23	Aqueous polythiophene electrosynthesis: A new route to an efficient electrode coupling of PQQ-dependent glucose dehydrogenase for sensing and bioenergetic applications. <i>Biosensors and Bioelectronics</i> , 2018, 112, 8-17.	5.3	27
24	Evaluation of novel Fmoc-tripeptide based hydrogels as immobilization supports for electrochemical biosensors. <i>Microchemical Journal</i> , 2018, 137, 105-110.	2.3	14
25	A Glucose/Oxygen Enzymatic Fuel Cell based on Gold Nanoparticles modified Graphene Screen-Printed Electrode. Proof-of-Concept in Human Saliva. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 921-930.	4.0	72
26	Development of Amine-Oxidase-Based Biosensors for Spermine and Spermidine Analysis. <i>Methods in Molecular Biology</i> , 2018, 1694, 75-80.	0.4	6
27	Metal Oxide Nanoparticle Based Electrochemical Sensor for Total Antioxidant Capacity (TAC) Detection in Wine Samples. <i>Biosensors</i> , 2018, 8, 108.	2.3	32
28	Ampicillin Measurement Using Flow SPR Immunosensor and Comparison with Classical Amperometric Immunosensor. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 229-232.	0.3	0
29	Beyond graphene: Electrochemical sensors and biosensors for biomarkers detection. <i>Biosensors and Bioelectronics</i> , 2017, 89, 152-166.	5.3	316
30	A bimetallic nanocoral Au decorated with Pt nanoflowers (bio)sensor for H ₂ O ₂ detection at low potential. <i>Methods</i> , 2017, 129, 89-95.	1.9	9
31	Application of a Nanostructured Enzymatic Biosensor Based on Fullerene and Gold Nanoparticles to Polyphenol Detection. <i>Methods in Molecular Biology</i> , 2017, 1572, 41-53.	0.4	4
32	Archaeometric analysis of Roman bronze coins from the Magna Mater temple using solid-state voltammetry and electrochemical impedance spectroscopy. <i>Analytica Chimica Acta</i> , 2017, 955, 36-47.	2.6	45
33	Polymer-supported electron transfer of PQQ-dependent glucose dehydrogenase at carbon nanotubes modified by electropolymerized polythiophene copolymers. <i>Electrochimica Acta</i> , 2017, 248, 64-74.	2.6	23
34	A multi-analytical approach for the validation of a jellified electrolyte: Application to the study of ancient bronze patina. <i>Microchemical Journal</i> , 2017, 134, 154-163.	2.3	22
35	Improved DET communication between cellobiose dehydrogenase and a gold electrode modified with a rigid self-assembled monolayer and green metal nanoparticles: The role of an ordered nanostructuring. <i>Biosensors and Bioelectronics</i> , 2017, 88, 196-203.	5.3	44
36	Green Synthesis and Characterization of Gold and Silver Nanoparticles and their Application for Development of a Third Generation Lactose Biosensor. <i>Electroanalysis</i> , 2017, 29, 77-86.	1.5	78

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37	AuNPs-functionalized PANABA-MWCNTs nanocomposite-based impedimetric immunosensor for 2,4-dichlorophenoxy acetic acid detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 52-56.	5.3	44
38	Comparison between a Direct-Flow SPR Immunosensor for Ampicillin and a Competitive Conventional Amperometric Device: Analytical Features and Possible Applications to Real Samples. <i>Sensors</i> , 2017, 17, 819.	2.1	9
39	A Flow SPR Immunosensor Based on a Sandwich Direct Method. <i>Biosensors</i> , 2016, 6, 22.	2.3	18
40	Catalase-Based Modified Graphite Electrode for Hydrogen Peroxide Detection in Different Beverages. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-12.	0.7	15
41	Nanotechnology-Based Surface Plasmon Resonance Affinity Biosensors for <i>In Vitro</i> Diagnostics. <i>International Journal of Analytical Chemistry</i> , 2016, 2016, 1-15.	0.4	23
42	One-step rapid synthesis of Au-Pt nanofems for electrochemical sensing and biosensing. , 2016, , .		0
43	Bubble electrodeposition of gold porous nanocorals for the enzymatic and non-enzymatic detection of glucose. <i>Bioelectrochemistry</i> , 2016, 112, 125-131.	2.4	61
44	Impacts of air pollution on cultural heritage corrosion at European level: What has been achieved and what are the future scenarios. <i>Environmental Pollution</i> , 2016, 218, 586-594.	3.7	67
45	The influence of environmental parameters in the biocolonization of the Mithraeum in the roman masonry of casa di Diana (Ostia Antica, Italy). <i>Environmental Science and Pollution Research</i> , 2016, 23, 13403-13412.	2.7	12
46	Inhibition-based biosensor for atrazine detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 552-558.	4.0	54
47	Recent advances in Third Generation Biosensors based on Au and Pt Nanostructured Electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 151-159.	5.8	47
48	Inhibition-based first-generation electrochemical biosensors: theoretical aspects and application to 2,4-dichlorophenoxy acetic acid detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3203-3211.	1.9	21
49	Fast synthesis of platinum nanopetals and nanospheres for highly-sensitive non-enzymatic detection of glucose and selective sensing of ions. <i>Scientific Reports</i> , 2015, 5, 15277.	1.6	60
50	Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. <i>Nanomaterials</i> , 2015, 5, 1995-2006.	1.9	44
51	Recent trends in electrochemical nanobiosensors for environmental analysis. <i>International Journal of Environment and Health</i> , 2015, 7, 267.	0.3	22
52	Highly sensitive electrodic materials based on Pt nanoflowers grown on Pt nanospheres for biosensor development. , 2015, , .		2
53	Affinity-based biosensors for pathogenic bacteria detection. <i>International Journal of Environmental Technology and Management</i> , 2015, 18, 185.	0.1	6
54	DNA-based biosensors for Hg ²⁺ determination by polythymine- <i>l</i> -methylene blue modified electrodes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 524-531.	5.3	63

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55	A New Surface Plasmon Resonance Immunosensor for Triazine Pesticide Determination in Bovine Milk: A Comparison with Conventional Amperometric and Screen-Printed Immunodevices. <i>Sensors</i> , 2015, 15, 10255-10270.	2.1	19
56	Highly efficient synthesis of aldehydes by layer by layer multi-walled carbon nanotubes (MWCNTs) laccase mediator systems. <i>Applied Catalysis A: General</i> , 2015, 499, 77-88.	2.2	17
57	Development of Carbon-Based Nano-Composite Materials for Direct Electron Transfer Based Biosensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3423-3428.	0.9	9
58	Amine oxidase-based biosensors for spermine and spermidine determination. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1131-1137.	1.9	29
59	Atrazine Determination Using Immunosensor Method Based on Surface Plasmon Resonance. Comparison with Two Other Immunological Methods Based on Screen-Printed and Classical Amperometric Devices. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 65-69.	0.3	0
60	Nanostructured enzymatic biosensor based on fullerene and gold nanoparticles: Preparation, characterization and analytical applications. <i>Biosensors and Bioelectronics</i> , 2014, 55, 430-437.	5.3	111
61	Composite Material Based on Macroporous Polyaniline and Osmium Redox Complex for Biosensor Development. <i>Electroanalysis</i> , 2014, 26, 1623-1630.	1.5	10
62	Affinity-based biosensors in sport medicine and doping control analysis. <i>Bioanalysis</i> , 2014, 6, 225-245.	0.6	18
63	Kinetic thermal analytical study of saturated mono-, di- and tri-glycerides. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 519-527.	2.0	5
64	Lactoferrin determination using flow or batch immunosensor surface plasmon resonance: Comparison with amperometric and screen-printed immunosensor methods. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 215-225.	4.0	23
65	Comparison of three immunosensor methods (surface plasmon resonance, screen-printed and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 animal or powdered milks. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 73, 90-98.	1.4	20
66	Several approaches for vitamin D determination by surface plasmon resonance and electrochemical affinity biosensors. <i>Biosensors and Bioelectronics</i> , 2013, 40, 350-355.	5.3	63
67	Affinity-based biosensors for heavy metal detection. <i>International Journal of Environment and Health</i> , 2013, 6, 290.	0.3	2
68	Polyazetidine-Coated Microelectrodes: Electrochemical and Diffusion Characterization of Different Redox Substrates. <i>Journal of Physical Chemistry B</i> , 2011, 115, 972-979.	1.2	7
69	Chemically Modified Multiwalled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4863-4871.	1.5	23
70	Characterization and application of a diamine oxidase from <i>Lathyrus sativus</i> as component of an electrochemical biosensor for the determination of biogenic amines in wine and beer. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 707-716.	1.9	61
71	Laccaseâ€“polyazetidine prepolymerâ€“MWCNT integrated system: Biochemical properties and application to analytical determinations in real samples. <i>Microchemical Journal</i> , 2010, 96, 301-307.	2.3	31
72	Kinetic and biochemical properties of high and low redox potential laccases from fungal and plant origin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 899-908.	1.1	101

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73	Study of Ferrocene-modified G4 PAMAM Dendrimer for Reagentless Biosensor Development. ECS Transactions, 2009, 16, 105-113.	0.3	12
74	Bioelectrochemical Characterization of Horseradish and Soybean Peroxidases. Electroanalysis, 2009, 21, 2378-2386.	1.5	5
75	Kinetic and redox properties of MnP II, a major manganese peroxidase isoenzyme from Panus tigrinus CBS 577.79. Journal of Biological Inorganic Chemistry, 2009, 14, 1153-1163.	1.1	21
76	Polyazetidine-based immobilization of redox proteins for electron-transfer-based biosensors. Biosensors and Bioelectronics, 2009, 24, 1424-1430.	5.3	21
77	Partially disposable biosensors for the quick assessment of damage in foodstuff after thermal treatment. Microchemical Journal, 2009, 91, 209-213.	2.3	10
78	Scleroglucan-Borax Hydrogel: A Flexible Tool for Redox Protein Immobilization. Langmuir, 2009, 25, 11097-11104.	1.6	7
79	Ferrocenyl Alkanethiols β -Thio β -Cyclodextrin Mixed Self-Assembled Monolayers: Evidence of Ferrocene Electron Shuttling Through the β -Cyclodextrin Cavity. Langmuir, 2009, 25, 12937-12944.	1.6	21
80	Electron β -Transfer Kinetics of Microperoxidase β 1 Covalently Immobilised onto the Surface of Multi β -Walled Carbon Nanotubes by Reactive Landing of Mass β -Selected Ions. Chemistry - A European Journal, 2009, 15, 7359-7367.	1.7	40
81	Electrochemical Kinetic Characterization of Redox Mediated Glucose Oxidase Reactions: A Simplified Approach. Electroanalysis, 2008, 20, 163-169.	1.5	23
82	Soft-Landed Protein Voltammetry: A Tool for Redox Protein Characterization. Analytical Chemistry, 2008, 80, 5937-5944.	3.2	35
83	In Vitro Antioxidant Capacity vs In Vivo Antimetastatic Effect of Anticancer Cobalt Complexes. Current Pharmaceutical Analysis, 2008, 4, 44-52.	0.3	2
84	Soft landed protein voltammetry. Chemical Communications, 2007, , 3494.	2.2	23
85	Selenium speciation in foods: Preliminary results on potatoes. Microchemical Journal, 2007, 85, 222-227.	2.3	33
86	Peroxidase based biosensors for the selective determination of D,L-lactic acid and L-malic acid in wines. Microchemical Journal, 2007, 87, 81-86.	2.3	45
87	Further Applications of a New Biosensor Method for Dating Cellulosic Finds. Annali Di Chimica, 2005, 95, 133-141.	0.6	5
88	Glutamate Receptor Incorporated in a Mixed Hybrid Bilayer Lipid Membrane Array, as a Sensing Element of a Biosensor Working under Flowing Conditions. Journal of the American Chemical Society, 2005, 127, 8103-8111.	6.6	58
89	Comparison of fluorimetric, voltammetric and biosensor methods for the determination of total antioxidant capacity of drug products containing acetylsalicylic acid. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 91-99.	1.4	36
90	Preparation and characterization of a chemically modified electrode based on ferrocene-tethered β -cyclodextrin self assembled monolayers. Microchemical Journal, 2004, 76, 77-84.	2.3	12

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91	BENZENE AND AROMATIC HYDROCARBONS 'POOL' DETERMINATION IN UNLEADED FUELS, BY A WHOLE CELL BIOSENSOR WORKING IN HYDROPHOBIC ORGANIC SOLVENT. , 2004, , .		0
92	Prehistoric terracottas from the libyan tadrart acacus. Journal of Thermal Analysis and Calorimetry, 2003, 73, 127-142.	2.0	17
93	Kinetic and thermodynamic treatment of gasification process for some s-triazines. Journal of Thermal Analysis and Calorimetry, 2003, 74, 121-139.	2.0	4
94	Determination of antioxidant properties of aromatic herbs, olives and fresh fruit using an enzymatic sensor. Analytical and Bioanalytical Chemistry, 2003, 375, 1011-1016.	1.9	53
95	Determination of hydrogen peroxide in disinfectant solutions using a biosensor with two antagonist enzymes. Journal of Pharmaceutical and Biomedical Analysis, 2003, 32, 737-751.	1.4	6
96	Mixed hybrid bilayer lipid membrane incorporating valinomycin: improvements in preparation and functioning. Microchemical Journal, 2003, 74, 141-148.	2.3	24
97	Thermogravimetric and kinetic methods to date wood finds. First results. Annali Di Chimica, 2003, 93, 897-907.	0.6	4
98	ENZYMATIC PROBES ABLE TO WORK IN ORGANIC SOLVENT FOR THE DETERMINATION OF WATER CONTENT IN HYDROPHOBIC MATRIXES. , 2002, , .		0
99	Plants and Chemistry: A Teaching Course Based on the Chemistry of Substances of Plant Origin. Journal of Chemical Education, 2002, 79, 976.	1.1	5
100	Membrane supported bilayer lipid membranes array: preparation, stability and ion-channel insertion. Analytica Chimica Acta, 2002, 460, 23-34.	2.6	47
101	DISPOSABLE SCREEN PRINTED POTENTIOMETRIC SENSORS FOR DETERMINATION OF FREE RADICALS. , 2002, , .		1
102	Eptastigmine, nicotinamide and nicotinic acid determination using an inhibition enzyme sensor; application to pharmaceutical analysis. Annali Di Chimica, 2002, 92, 373-85.	0.6	2
103	Two OPEEs (organic phase enzyme electrodes) used to check the percentage water content in hydrophobic foods and drugs. Analyst, The, 2001, 126, 1923-1928.	1.7	7
104	DIRECT DETERMINATION OF NICOTINE IN ANTISMOKING PHARMACEUTICAL PRODUCTS AND IN TOBACCO USING AN INHIBITION BIOSENSOR. Analytical Letters, 2001, 34, 855-866.	1.0	12
105	Superoxide dismutase biosensors working in non-aqueous solvent. Fresenius' Journal of Analytical Chemistry, 2001, 369, 594-600.	1.5	23
106	Evaluation of radical scavenging properties of several plants, fresh or from a herbalist's, using a superoxide dismutase biosensor. Journal of Pharmaceutical and Biomedical Analysis, 2001, 24, 1055-1064.	1.4	28
107	Organic phase enzyme electrodes: applications and theoretical studies. Analytica Chimica Acta, 2001, 426, 235-247.	2.6	31
108	New biosensor for superoxide radical used to evidence molecules of biomedical and pharmaceutical interest having radical scavenging properties. Journal of Pharmaceutical and Biomedical Analysis, 2000, 23, 69-76.	1.4	65

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109	An Aquarium as a Means for the Interdisciplinary Teaching of Chemistry. Journal of Chemical Education, 2000, 77, 1311.	1.1	11
110	INHIBITION ENZYME SENSOR FOR NICOTINE, NICOTINAMIDE AND NICOTINIC ACID DETERMINATION. , 2000, , .		0
111	Monitoring the rancidification process in olive oils using a biosensor operating in organic solvents1This paper was presented at the Fifth World Congress on Biosensors, Berlin, Germany, 3â€“5 June 1998.1. Biosensors and Bioelectronics, 1999, 14, 179-186.	5.3	43
112	Analysis of several real matrices using new mono-, bi-enzymatic, or inhibition organic phase enzyme electrodes. Analytica Chimica Acta, 1999, 393, 109-120.	2.6	20
113	Enzymatic immobilisation in kappa-carrageenan gel suitable for organic phase enzyme electrode (OPEE) assembly. Journal of Molecular Catalysis B: Enzymatic, 1999, 7, 101-113.	1.8	15
114	Superoxide Dismutase Biosensors for Superoxide Radical Analysis. Analytical Letters, 1999, 32, 2559-2581.	1.0	42
115	Further development of catalase, tyrosinase and glucose oxidase based organic phase enzyme electrode response as a function of organic solvent properties. Talanta, 1998, 46, 595-606.	2.9	41
116	Selective Membrane Sensors for Free Radical Analysis Based on Potentiometric and CHEMFET Devices. Analusis - European Journal of Analytical Chemistry, 1998, 26, 223-228.	0.4	11
117	Further developments in toxicity cell biosensors. Sensors and Actuators B: Chemical, 1997, 44, 279-285.	4.0	28
118	A modified amperometric electrode for the determination of free radicals. Sensors and Actuators B: Chemical, 1997, 44, 559-565.	4.0	34
119	Toxicity order of cholanic acids using an immobilised cell biosensor. Journal of Pharmaceutical and Biomedical Analysis, 1996, 14, 1007-1013.	1.4	22
120	Organophosphorus pesticide (Paraoxon) analysis using solid state sensors. Sensors and Actuators B: Chemical, 1996, 33, 25-33.	4.0	43
121	<title>Respirometric biomonitor for the control of industrial effluent toxicity</title>. , 1995, , .		2
122	Immobilised yeast cells biosensor for total toxicity testing. Science of the Total Environment, 1995, 171, 227-234.	3.9	40
123	The effect of organic solvent properties on the response of a tyrosinase enzyme sensor. Talanta, 1994, 41, 1015-1023.	2.9	53