

Franco Mazzei

List of Publications by Year in descending order

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125
papers

3,350
citations

159585

30
h-index

175258

52
g-index

131
all docs

131
docs citations

131
times ranked

4519
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free magnetic nanoparticles-based electrochemical immunosensor for atrazine detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2055-2064.	3.7	11
2	Nanostructure-Based Electrochemical Immunosensors as Diagnostic Tools. <i>Electrochem</i> , 2021, 2, 10-28.	3.3	21
3	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.	3.4	4
4	The use of a commercial ESI Z-spray source for ambient ion soft landing and microdroplet reactivity experiments. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116658.	1.5	9
5	Calixarene: a versatile scaffold for the development of highly sensitive biosensors. <i>Supramolecular Chemistry</i> , 2021, 33, 345-369.	1.2	8
6	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.	4.5	6
7	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.	7.8	14
8	Lignin nanoparticles are renewable and functional platforms for the concanavalin a oriented immobilization of glucose oxidase/peroxidase in cascade bio-sensing. <i>RSC Advances</i> , 2020, 10, 29031-29042.	3.6	31
9	Site-Directed Antibody Immobilization by Resorcinol-Based Immunosensors. <i>Chemistry - A European Journal</i> , 2020, 26, 8400-8406.	3.3	11
10	PVA hydrogel as polymer electrolyte for electrochemical impedance analysis on archaeological metals. <i>Journal of Cultural Heritage</i> , 2019, 37, 113-120.	3.3	18
11	Application of microemulsions for the removal of synthetic resins from paintings on canvas. <i>Natural Product Research</i> , 2019, 33, 1015-1025.	1.8	6
12	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.	10.1	27
13	Evaluation of novel Fmoc-tripeptide based hydrogels as immobilization supports for electrochemical biosensors. <i>Microchemical Journal</i> , 2018, 137, 105-110.	4.5	14
14	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.	7.8	72
15	Development of Amine-Oxidase-Based Biosensors for Spermine and Spermidine Analysis. <i>Methods in Molecular Biology</i> , 2018, 1694, 75-80.	0.9	6
16	Metal Oxide Nanoparticle Based Electrochemical Sensor for Total Antioxidant Capacity (TAC) Detection in Wine Samples. <i>Biosensors</i> , 2018, 8, 108.	4.7	32
17	Ampicillin Measurement Using Flow SPR Immunosensor and Comparison with Classical Amperometric Immunosensor. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 229-232.	0.4	0
18	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.	3.8	9

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19	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.	0.9	4
20	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.	5.2	23
21	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.	4.5	22
22	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.	10.1	44
23	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.	2.9	78
24	AuNPs-functionalized PANABA-MWCNTs nanocomposite-based impedimetric immunosensor for 2,4-dichlorophenoxy acetic acid detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 52-56.	10.1	44
25	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.	3.8	9
26	A Flow SPR Immunosensor Based on a Sandwich Direct Method. <i>Biosensors</i> , 2016, 6, 22.	4.7	18
27	Catalase-Based Modified Graphite Electrode for Hydrogen Peroxide Detection in Different Beverages. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-12.	1.6	15
28	Nanotechnology-Based Surface Plasmon Resonance Affinity Biosensors for <i>In Vitro</i> Diagnostics. <i>International Journal of Analytical Chemistry</i> , 2016, 2016, 1-15.	1.0	23
29	One-step rapid synthesis of Au-Pt nanofems for electrochemical sensing and biosensing. , 2016, , .		0
30	Bubble electrodeposition of gold porous nanocorals for the enzymatic and non-enzymatic detection of glucose. <i>Bioelectrochemistry</i> , 2016, 112, 125-131.	4.6	61
31	Inhibition-based biosensor for atrazine detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 552-558.	7.8	54
32	Recent advances in Third Generation Biosensors based on Au and Pt Nanostructured Electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 151-159.	11.4	47
33	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.	3.7	21
34	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.	3.3	60
35	Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. <i>Nanomaterials</i> , 2015, 5, 1995-2006.	4.1	44
36	Recent trends in electrochemical nanobiosensors for environmental analysis. <i>International Journal of Environment and Health</i> , 2015, 7, 267.	0.3	22

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37	Highly sensitive electroodic materials based on Pt nanoflowers grown on Pt nanospheres for biosensor development. , 2015, , .		2
38	Affinity-based biosensors for pathogenic bacteria detection. International Journal of Environmental Technology and Management, 2015, 18, 185.	0.2	6
39	DNA-based biosensors for Hg ²⁺ determination by polythymine- <i>l</i> -methylene blue modified electrodes. Biosensors and Bioelectronics, 2015, 67, 524-531.	10.1	63
40	A New Surface Plasmon Resonance Immunosensor for Triazine Pesticide Determination in Bovine Milk: A Comparison with Conventional Amperometric and Screen-Printed Immunodevices. Sensors, 2015, 15, 10255-10270.	3.8	19
41	Development of Carbon-Based Nano-Composite Materials for Direct Electron Transfer Based Biosensors. Journal of Nanoscience and Nanotechnology, 2015, 15, 3423-3428.	0.9	9
42	Amine oxidase-based biosensors for spermine and spermidine determination. Analytical and Bioanalytical Chemistry, 2015, 407, 1131-1137.	3.7	29
43	Atrazine Determination Using Immunosensor Method Based on Surface Plasmon Resonance. Comparison with Two Other Immunological Methods Based on Screen-Printed and Classical Amperometric Devices. Lecture Notes in Electrical Engineering, 2015, , 65-69.	0.4	0
44	Nanostructured enzymatic biosensor based on fullerene and gold nanoparticles: Preparation, characterization and analytical applications. Biosensors and Bioelectronics, 2014, 55, 430-437.	10.1	111
45	Composite Material Based on Macroporous Polyaniline and Osmium Redox Complex for Biosensor Development. Electroanalysis, 2014, 26, 1623-1630.	2.9	10
46	Affinity-based biosensors in sport medicine and doping control analysis. Bioanalysis, 2014, 6, 225-245.	1.5	18
47	Lactoferrin determination using flow or batch immunosensor surface plasmon resonance: Comparison with amperometric and screen-printed immunosensor methods. Sensors and Actuators B: Chemical, 2013, 179, 215-225.	7.8	23
48	Comparison of three immunosensor methods (surface plasmon resonance, screen-printed and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 animal or powdered milks. Journal of Pharmaceutical and Biomedical Analysis, 2013, 73, 90-98.	2.8	20
49	Several approaches for vitamin D determination by surface plasmon resonance and electrochemical affinity biosensors. Biosensors and Bioelectronics, 2013, 40, 350-355.	10.1	63
50	Affinity-based biosensors for heavy metal detection. International Journal of Environment and Health, 2013, 6, 290.	0.3	2
51	Electrochemical biosensors for environmental monitoring. International Journal of Environment and Health, 2012, 6, 93.	0.3	4
52	Electrochemically Controlled Assembly and Logic Gates Operations of Gold Nanoparticle Arrays. Langmuir, 2012, 28, 3322-3331.	3.5	30
53	Interaction of ERp57 with calreticulin: Analysis of complex formation and effects of vancomycin. Biophysical Chemistry, 2012, 160, 46-53.	2.8	10
54	Influence of the immobilization procedures on the electroanalytical performances of Trametes versicolor laccase based bioelectrode. Microchemical Journal, 2012, 100, 8-13.	4.5	36

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55	Aptamer-based and DNAzyme-based biosensors for environmental monitoring. <i>International Journal of Environment and Health</i> , 2011, 5, 186.	0.3	2
56	Polyazetidine-Coated Microelectrodes: Electrochemical and Diffusion Characterization of Different Redox Substrates. <i>Journal of Physical Chemistry B</i> , 2011, 115, 972-979.	2.6	7
57	Wiring of Redox Enzymes on Three Dimensional Self-Assembled Molecular Scaffold. <i>Langmuir</i> , 2011, 27, 12606-12613.	3.5	17
58	Chemically Modified Multiwalled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4863-4871.	3.1	23
59	The structure of maize polyamine oxidase K300M mutant in complex with the natural substrates provides a snapshot of the catalytic mechanism of polyamine oxidation. <i>FEBS Journal</i> , 2011, 278, 809-821.	4.7	14
60	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.	3.7	61
61	Azurin modulates the association of Mdm2 with p53: SPR evidence from interaction of the full-length proteins. <i>Journal of Molecular Recognition</i> , 2011, 24, 707-714.	2.1	26
62	Protein immobilization at gold-thiol surfaces and potential for biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1545-1564.	3.7	132
63	Laccase-polyazetidine prepolymer-MWCNT integrated system: Biochemical properties and application to analytical determinations in real samples. <i>Microchemical Journal</i> , 2010, 96, 301-307.	4.5	31
64	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.	2.3	101
65	Electrochemical evaluation of electron transfer kinetics of high and low redox potential laccases on gold electrode surface. <i>Electrochimica Acta</i> , 2010, 56, 817-827.	5.2	41
66	Surface plasmon resonance biosensors for environmental analysis: general aspects and applications. <i>International Journal of Environment and Health</i> , 2010, 4, 305.	0.3	2
67	Multifunctional Au Nanoparticle Dendrimer-Based Surface Plasmon Resonance Biosensor and Its Application for Improved Insulin Detection. <i>Analytical Chemistry</i> , 2010, 82, 7335-7342.	6.5	126
68	Laccase-based biosensor for the determination of polyphenol index in wine. <i>Talanta</i> , 2010, 81, 235-240.	5.5	128
69	Study of Ferrocene-modified G4 PAMAM Dendrimer for Reagentless Biosensor Development. <i>ECS Transactions</i> , 2009, 16, 105-113.	0.5	12
70	Nanostructured materials based on the integration of ferrocenyl-tethered dendrimer and redox proteins on self-assembled monolayers: an efficient biosensor interface. <i>Nanotechnology</i> , 2009, 20, 505501.	2.6	14
71	Foramen of Huschke: Case Report and Experimental Procedure for Diagnosis of Spontaneous Salivary Fistula. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 1747-1751.	1.2	29
72	Bioelectrochemical Characterization of Horseradish and Soybean Peroxidases. <i>Electroanalysis</i> , 2009, 21, 2378-2386.	2.9	5

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73	Rapid screening of beta-adrenergic agents and related compounds in human urine for anti-doping purpose using capillary electrophoresis with dynamic coating. <i>Journal of Separation Science</i> , 2009, 32, 3562-3570.	2.5	21
74	Kinetic and redox properties of MnP II, a major manganese peroxidase isoenzyme from <i>Panus tigrinus</i> CBS 577.79. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1153-1163.	2.6	21
75	Polyazetidine-based immobilization of redox proteins for electron-transfer-based biosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1424-1430.	10.1	21
76	Surface plasmon resonance immunosensor for cortisol and cortisone determination. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2151-2159.	3.7	63
77	Partially disposable biosensors for the quick assessment of damage in foodstuff after thermal treatment. <i>Microchemical Journal</i> , 2009, 91, 209-213.	4.5	10
78	Scleroglucan-Borax Hydrogel: A Flexible Tool for Redox Protein Immobilization. <i>Langmuir</i> , 2009, 25, 11097-11104.	3.5	7
79	Ferrocenyl Alkanethiols-Thio- β -Cyclodextrin Mixed Self-Assembled Monolayers: Evidence of Ferrocene Electron Shuttling Through the β -Cyclodextrin Cavity. <i>Langmuir</i> , 2009, 25, 12937-12944.	3.5	21
80	Electrochemical and surface plasmon resonance characterization of β -cyclodextrin-based self-assembled monolayers and evaluation of their inclusion complexes with glucocorticoids. <i>Nanotechnology</i> , 2009, 20, 285502.	2.6	7
81	Electron-Transfer Kinetics of Microperoxidase-11 Covalently Immobilised onto the Surface of Multi-Walled Carbon Nanotubes by Reactive Landing of Mass-Selected Ions. <i>Chemistry - A European Journal</i> , 2009, 15, 7359-7367.	3.3	40
82	Electrochemical Kinetic Characterization of Redox Mediated Glucose Oxidase Reactions: A Simplified Approach. <i>Electroanalysis</i> , 2008, 20, 163-169.	2.9	23
83	Soft-Landed Protein Voltammetry: A Tool for Redox Protein Characterization. <i>Analytical Chemistry</i> , 2008, 80, 5937-5944.	6.5	35
84	Short and Long-Term Variations in Serum Calcitropic Hormones after a Single Very Large Dose of Ergocalciferol (Vitamin D2) or Cholecalciferol (Vitamin D3) in the Elderly. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 3015-3020.	3.6	286
85	TWO NEW SCREEN-PRINTED IMMUNOSENSORS FOR HlgG AND LACTOFERRIN DETERMINATION: COMPARISON BY TWO CORRESPONDING CLASSICAL AMPEROMETRIC IMMUNOSENSORS AND A POTENTIOMETRIC ONE. , 2008, , .		0
86	Enzymatic inhibition-based electrochemical biosystems: general aspects and applications for the monitoring of aquatic ecosystems. <i>International Journal of Environment and Health</i> , 2007, 1, 185.	0.3	2
87	Automotive catalytic converters and environmental pollution: role of the platinum group elements in the redox reactions and free radicals production. <i>International Journal of Environment and Health</i> , 2007, 1, 142.	0.3	18
88	Soft landed protein voltammetry. <i>Chemical Communications</i> , 2007, , 3494.	4.1	23
89	Peroxidase based biosensors for the selective determination of D,L-lactic acid and L-malic acid in wines. <i>Microchemical Journal</i> , 2007, 87, 81-86.	4.5	45
90	Alkaline phosphatase inhibition based electrochemical sensors for the detection of pesticides. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 95-100.	3.8	78

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91	A SCREEN-PRINTED ENZYMATIC ELECTRODE FOR THE DETERMINATION OF ORGANO-PHOSPHOROUS PESTICIDES. , 2004, , .		0
92	Some considerations on the kinetics of pathogenic prions formation. Annali Dell'Istituto Superiore Di Sanita, 2002, 38, 195-8.	0.4	0
93	Evaluation of rapid methods for the determination of okadaic acid in mussels. Journal of Applied Microbiology, 2001, 90, 73-77.	3.1	11
94	Inhibition-based biosensors for the detection of environmental contaminants: Determination of 2,4-dichlorophenoxyacetic acid. Environmental Toxicology and Chemistry, 2000, 19, 2876-2881.	4.3	10
95	INHIBITION-BASED BIOSENSORS FOR THE DETECTION OF ENVIRONMENTAL CONTAMINANTS: DETERMINATION OF 2,4-DICHLOROPHOXYACETIC ACID. Environmental Toxicology and Chemistry, 2000, 19, 2876.	4.3	9
96	Interactions between carbonic anhydrase and some decarboxylating enzymes as studied by a new bioelectrochemical approach. Bioelectrochemistry, 1999, 48, 463-467.	1.0	4
97	A Kinetic Analysis of β -Aminobutyrate Aminotransferase in Presence and Absence of Inhibitors. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 671-679.	0.9	1
98	Peroxidase based amperometric biosensors for the determination of β -aminobutyric acid. Analytica Chimica Acta, 1996, 328, 41-46.	5.4	17
99	A multi-enzyme bioelectrode for the rapid determination of total lactate concentration in tomatoes, tomato juice and tomato paste. Food Chemistry, 1996, 55, 413-418.	8.2	19
100	Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides. Analytica Chimica Acta, 1996, 336, 67-75.	5.4	56
101	Plant tissue electrode for the determination of atrazine. Analytica Chimica Acta, 1995, 316, 79-82.	5.4	41
102	Cholinesterase based bioreactor for determination of pesticides. Sensors and Actuators B: Chemical, 1994, 19, 689-693.	7.8	24
103	Plant tissue biosensors for the determination of biogenic diamines and of their amino acid precursors: effect of carbonic anhydrase. Sensors and Actuators B: Chemical, 1993, 15, 135-140.	7.8	14
104	Biosensor for direct determination of glucose and lactate in undiluted biological fluids. Biosensors and Bioelectronics, 1993, 8, 307-314.	10.1	11
105	Determination of l-glutamate and l-glutamine in pharmaceutical formulations by amperometric l-glutamate oxidase based enzyme sensors. Journal of Pharmaceutical and Biomedical Analysis, 1993, 11, 679-686.	2.8	14
106	Plant metabolism as an analytical tool: some applications of plant tissue electrodes for the selective determination of catecholamines. Sensors and Actuators B: Chemical, 1992, 7, 427-430.	7.8	24
107	Carbonic anhydrase, CO ₂ transport and GABA homeostasis: an in-vitro model. Journal of Electroanalytical Chemistry, 1992, 342, 487-494.	3.8	1
108	Carbonic anhydrase, CO ₂ transport and GABA homeostasis: An in-vitro model. Bioelectrochemistry, 1992, 27, 487-494.	1.0	3

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109	Phosphate determination in foodstuffs using a plant tissue electrode. <i>Food Chemistry</i> , 1992, 44, 291-297.	8.2	17
110	Determination of glutamic acid decarboxylase activity and inhibition by an H ₂ O ₂ -sensing glutamic acid oxidase biosensor. <i>Analytical Biochemistry</i> , 1992, 201, 227-232.	2.4	13
111	Metals Removal and Recovery by <i>Arthrobacter</i> sp. <i>Biomass. Water Science and Technology</i> , 1992, 26, 2149-2152.	2.5	9
112	Plant-tissue electrode for the determination of catechol. <i>Analytica Chimica Acta</i> , 1991, 255, 59-62.	5.4	28
113	On the influence of carbonic anhydrase facilitated CO ₂ diffusion on the respiration of <i>Saccharomyces cerevisiae</i> . <i>Bioelectrochemistry</i> , 1990, 23, 361-364.	1.0	4
114	New enzyme sensors for urea and creatinine analysis. <i>Bioelectrochemistry</i> , 1990, 23, 195-202.	1.0	23
115	Determination of inorganic phosphate in drug formulations and biological fluids using a plant tissue electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1990, 8, 711-716.	2.8	17
116	New enzyme sensors for urea and creatinine analysis. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 298, 195-202.	0.1	2
117	On the influence of carbonic anhydrase facilitated CO ₂ diffusion on the respiration of <i>Saccharomyces cerevisiae</i> . <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 298, 361-364.	0.1	0
118	Characterization of biosensors based on membranes containing a conducting polymer. <i>Analytica Chimica Acta</i> , 1989, 221, 157-161.	5.4	32
119	Thermal analysis, conducting properties and electrochemical applications of some conductor-doped polymers. Part 2. <i>Thermochimica Acta</i> , 1989, 141, 41-50.	2.7	1
120	Thermal analysis, conductivity and electrochemical applications of phenylacetylene and benzylpropargylamine polymers. Part 3. <i>Thermochimica Acta</i> , 1989, 146, 161-175.	2.7	0
121	Carbonic Anhydrase Facilitated CO ₂ Diffusion Studied by Means of an Ammonia Sensing Urease Electrode. <i>Analytical Letters</i> , 1989, 22, 2413-2421.	1.8	1
122	Benzylpenicillin PVC membrane electrode for the determination of antibiotics in formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1988, 6, 299-305.	2.8	10
123	Polymeric membrane electrodes for drug analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1988, 6, 717-723.	2.8	9
124	Polymeric membrane cholate-selective electrode. <i>Analyst, The</i> , 1988, 113, 325.	3.5	16
125	Amperometric sensor for pyruvate with immobilized pyruvate oxidase. <i>Analytica Chimica Acta</i> , 1987, 192, 9-16.	5.4	72