

Dimitrios P Nikolelis

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Lipid Membranes: Past, Present, and Future. <i>Membranes</i> , 2017, 7, 38.	3.0	124
2	Ammonium Ion Minisensors from Self-Assembled Bilayer Lipid Membranes Using Gramicidin as an Ionophore. Modulation of Ammonium Selectivity by Platelet-Activating Factor. <i>Analytical Chemistry</i> , 1996, 68, 1735-1741.	6.5	97
3	Biosensors Based on Thin Lipid Films and Liposomes. <i>Electroanalysis</i> , 1999, 11, 7-15.	2.9	94
4	Electrochemical Aptasensor Based on Polycarboxylic Macrocyclic Modified with Neutral Red for Aflatoxin B1 Detection. <i>Electroanalysis</i> , 2014, 26, 2100-2109.	2.9	83
5	Bilayer Lipid Membranes for Flow Injection Monitoring of Acetylcholine, Urea, and Penicillin. <i>Analytical Chemistry</i> , 1995, 67, 936-944.	6.5	79
6	Bilayer lipid membranes for electrochemical sensing. <i>Electroanalysis</i> , 1993, 5, 539-545.	2.9	70
7	An Optical Spot Test for the Detection of Dopamine in Human Urine Using Stabilized in Air Lipid Films. <i>Analytical Chemistry</i> , 2004, 76, 2174-2180.	6.5	68
8	Stabilized bilayer lipid membranes for flow-through experiments. <i>Electroanalysis</i> , 1995, 7, 531-536.	2.9	63
9	Stabilized lipid film based biosensor for atenolol. <i>Biosensors and Bioelectronics</i> , 2002, 17, 565-572.	10.1	58
10	Development of an Electrochemical Biosensor for the Rapid Detection of Saxitoxin Based on Air Stable Lipid Films with Incorporated Anti- ϵ STX Using Graphene Electrodes. <i>Electroanalysis</i> , 2017, 29, 990-997.	2.9	57
11	Construction of a simple optical sensor based on air stable lipid film with incorporated urease for the rapid detection of urea in milk. <i>Analytica Chimica Acta</i> , 2010, 675, 58-63.	5.4	56
12	Flow Injection Monitoring and Analysis of Mixtures of Hydrazine Compounds Using Filter-Supported Bilayer Lipid Membranes with Incorporated DNA. <i>Analytical Chemistry</i> , 2000, 72, 180-186.	6.5	53
13	Flow injection analysis of carbofuran in foods using air stable lipid film based acetylcholinesterase biosensor. <i>Analytica Chimica Acta</i> , 2005, 537, 169-177.	5.4	53
14	Potentiometric Cholesterol Biosensor Based on ZnO Nanowalls and Stabilized Polymerized Lipid Film. <i>Electroanalysis</i> , 2013, 25, 367-372.	2.9	52
15	Structural Characterization of Graphene Nanosheets for Miniaturization of Potentiometric Urea Lipid Film Based Biosensors. <i>Electroanalysis</i> , 2012, 24, 1285-1295.	2.9	50
16	Flow Injection Monitoring of Aflatoxin M1 in Milk and Milk Preparations Using Filter-Supported Bilayer Lipid Membranes. <i>Analytical Chemistry</i> , 1998, 70, 2366-2371.	6.5	49
17	Flow injection monitoring and analysis of mixtures of simazine, atrazine, and propazine using filter-supported bilayer lipid membranes (BLMs). <i>Electroanalysis</i> , 1996, 8, 907-912.	2.9	44
18	Stabilized Lipid Membrane Based Biosensors with Incorporated Enzyme for Repetitive Uses. <i>Electroanalysis</i> , 2006, 18, 2467-2474.	2.9	44

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19	Pre-concentration of indolic compounds at a carbon paste electrode and indirect determination of L-tryptophan in serum by adsorptive stripping voltammetry. <i>Analyst</i> , The, 1990, 115, 291.	3.5	42
20	A Triazine Herbicide Minisensor Based on Surface-Stabilized Bilayer Lipid Membranes. <i>Analytical Chemistry</i> , 1997, 69, 3109-3114.	6.5	39
21	Establishment and control of artificial ion-conductive zones for lipid membrane biosensor development. <i>Analytica Chimica Acta</i> , 1992, 257, 239-245.	5.4	37
22	Detection of DNA hybridization using self-assembled bilayer lipid membranes (BLMs). <i>Electroanalysis</i> , 1997, 9, 1067-1071.	2.9	36
23	Rapid methods for detection of Aflatoxin M1 based on electrochemical transduction by self-assembled metal-supported bilayer lipid membranes (s-BLMs) and on interferences with transduction of DNA hybridization. <i>Electrochimica Acta</i> , 1998, 43, 3611-3617.	5.2	34
24	Optical portable biosensors based on stabilized lipid membrane for the rapid detection of doping materials in human urine. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 577-582.	7.8	34
25	Label-Free and Redox Markers-Based Electrochemical Aptasensors for Aflatoxin M1 Detection. <i>Sensors</i> , 2018, 18, 4218.	3.8	32
26	Development of an Electrochemical Biosensor for the Rapid Detection of Cholera Toxin Based on Air Stable Lipid Films with Incorporated Ganglioside GM1 Using Graphene Electrodes. <i>Electroanalysis</i> , 2016, 28, 1584-1590.	2.9	31
27	Electrochemical transduction of interactions of atrazine with bilayer lipid membranes. <i>Electroanalysis</i> , 1996, 8, 643-647.	2.9	29
28	DNA Biosensor Based on Self-Assembled Bilayer Lipid Membranes for the Detection of Hydrazines. <i>Electroanalysis</i> , 1998, 10, 691-694.	2.9	28
29	A Selective Immunosensor for Dâ€šdimer Based on Antibody Immobilized on a Graphene Electrode with Incorporated Lipid Films. <i>Electroanalysis</i> , 2014, 26, 1522-1527.	2.9	28
30	Lipid Membrane Nanosensors for Environmental Monitoring: The Art, the Opportunities, and the Challenges. <i>Sensors</i> , 2018, 18, 284.	3.8	28
31	Bilayer lipid membranes as electrochemical detectors for flow injection immunoanalysis. <i>Electroanalysis</i> , 1995, 7, 1082-1089.	2.9	27
32	Biosensors for the Rapid Detection of Dopamine Using Bilayer Lipid Membranes (BLMs) With Incorporated Calix[4]resorcinarene Receptor. <i>Electroanalysis</i> , 2002, 14, 783.	2.9	27
33	Development of an Electrochemical Biosensor for the Rapid Detection of Carbofuran Based on Air Stable Lipid Films with Incorporated Calix[4]arene Phosphoryl Receptor. <i>Electroanalysis</i> , 2008, 20, 1574-1580.	2.9	27
34	Development of an Electrochemical Biosensor for the Rapid Detection of Naphthalene Acetic Acid in Fruits by Using Air Stable Lipid Films with Incorporated Auxin-Binding Protein 1 Receptor. <i>Protein and Peptide Letters</i> , 2008, 15, 789-794.	0.9	27
35	The Development of Highly Sensitive and Selective Immunosensor Based on Antibody Immobilized ZnO Nanorods for the Detection of Dâ€šdimer. <i>Electroanalysis</i> , 2014, 26, 292-298.	2.9	27
36	Direct electrochemical sensing of insecticides by bilayer lipid membranes. <i>Analytica Chimica Acta</i> , 1994, 288, 187-192.	5.4	26

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37	A minisensor for the rapid screening of atenolol in pharmaceutical preparations based on surface-stabilized bilayer lipid membranes with incorporated DNA. <i>Bioelectrochemistry</i> , 2002, 58, 107-112.	4.6	26
38	Electrochemical transduction of the acetylcholine-acetylcholinesterase reaction by bilayer lipid membranes. <i>Analytica Chimica Acta</i> , 1993, 281, 569-576.	5.4	25
39	Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor. <i>Analytica Chimica Acta</i> , 1997, 355, 227-234.	5.4	25
40	Preparation of a Selective Receptor for Ephedrine for the Development of an Optical Spot Test for the Detection of Ephedrine in Human Urine Using Stabilized in Air Lipid Films with Incorporated Receptor. <i>Analytical Chemistry</i> , 2005, 77, 3217-3221.	6.5	24
41	Electrochemical Biosensor for Naphthalene Acetic Acid in Fruits and Vegetables Based on Lipid Films with Incorporated Auxin-binding Protein Receptor Using Graphene Electrodes. <i>Electroanalysis</i> , 2016, 28, 2171-2177.	2.9	24
42	A Minisensor for the Rapid Screening of Acesulfame-K, Cyclamate, and Saccharin Based on Surface-Stabilized Bilayer Lipid Membranes. <i>Electroanalysis</i> , 2000, 12, 786-790.	2.9	23
43	Electrochemical transduction of the interactions of the sweeteners acesulfame-K, saccharin and cyclamate with bilayer lipid membranes (BLMs). <i>Electrochimica Acta</i> , 2001, 46, 1025-1031.	5.2	23
44	Direct electrochemical transduction of an immunological reaction by bilayer lipid membranes. <i>Analytica Chimica Acta</i> , 1993, 282, 527-534.	5.4	22
45	Flow Injection Monitoring of Aflatoxin M1 in Cheese Using Filter-Supported Bilayer Lipid Membranes with Incorporated DNA. <i>Electroanalysis</i> , 2000, 12, 747-751.	2.9	22
46	Preparation of a selective receptor for carbofuran for the development of a simple optical spot test for its rapid detection using stabilized in air lipid films with incorporated receptor. <i>Analytica Chimica Acta</i> , 2008, 620, 134-141.	5.4	22
47	Development of an electrochemical chemosensor for the rapid detection of zinc based on air stable lipid films with incorporated calix[4]arene phosphoryl receptor. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 211-222.	3.3	22
48	A minisensor for the rapid screening of sucralose based on surface-stabilized bilayer lipid membranes. <i>Biosensors and Bioelectronics</i> , 2000, 15, 439-444.	10.1	21
49	Stabilized Lipid Films in Electrochemical Biosensors. <i>Electroanalysis</i> , 2010, 22, 2747-2763.	2.9	21
50	Development of a Potentiometric Chemical Sensor for the Rapid Detection of Carbofuran Based on Air Stable Lipid Films with Incorporated Calix[4]arene Phosphoryl Receptor Using Graphene Electrodes. <i>Electroanalysis</i> , 2015, 27, 2608-2613.	2.9	21
51	Selective Continuous Monitoring and Analysis of Mixtures of Acesulfame-K, Cyclamate, and Saccharin in Artificial Sweetener Tablets, Diet Soft Drinks, Yogurts, and Wines Using Filter-Supported Bilayer Lipid Membranes. <i>Analytical Chemistry</i> , 2001, 73, 5945-5952.	6.5	19
52	Investigation of interactions of a resorcin[4]arene receptor with bilayer lipid membranes (BLMs) for the electrochemical biosensing of mixtures of dopamine and ephedrine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1558, 238-245.	2.6	19
53	A portable sensor for the rapid detection of naphthalene acetic acid in fruits and vegetables using stabilized in air lipid films with incorporated auxin-binding protein 1 receptor. <i>Talanta</i> , 2008, 77, 786-792.	5.5	19
54	Advances in lipid film based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 210-221.	11.4	19

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55	Biosensor for dopamine based on stabilized lipid films with incorporated resorcin[4]arene receptor. <i>Bioelectrochemistry</i> , 2003, 59, 107-112.	4.6	18
56	Ion permeability through bilayer lipid membranes for biosensor development: control by chemical modification of interfacial regions between phase domains. <i>Analyst, The</i> , 1991, 116, 1221.	3.5	17
57	The Application of Lipid Membranes in Biosensing. <i>Membranes</i> , 2018, 8, 108.	3.0	17
58	New electrochemical sensors. <i>Analytical Proceedings</i> , 1991, 28, 366.	0.4	16
59	Electrochemical investigation of interactions of bilayer lipid membranes (BLMs) with incorporated resorcin[4]arene receptor with ephedrine for the development of a stabilized lipid film biosensor for ephedrine. <i>Electrochimica Acta</i> , 2002, 47, 3457-3467.	5.2	16
60	Biosensors for the Rapid Repetitive Detection of Adrenaline Using Stabilized Bilayer Lipid Membranes (BLMs) with Incorporated Calix[4]resorcinarene Receptor. <i>Electroanalysis</i> , 2003, 15, 1616-1624.	2.9	16
61	Development of an Electrochemical Biosensor for the Rapid Detection of Cholera Toxin Using Air Stable Lipid Films with incorporated Ganglioside GM1. <i>Electroanalysis</i> , 2011, 23, 2182-2187.	2.9	16
62	Novel Biosensors for the Rapid Detection of Toxicants in Foods. <i>Advances in Food and Nutrition Research</i> , 2018, 84, 57-102.	3.0	16
63	Dynamic response characteristics of the potentiometric carbon dioxide sensor for the determination of aspartame. <i>Analyst, The</i> , 1990, 115, 883.	3.5	15
64	Electrochemical investigation of transduction of interactions of aflatoxin M1 with bilayer lipid membranes (BLMs). <i>Analytica Chimica Acta</i> , 1997, 350, 121-127.	5.4	15
65	A carbon dioxide biosensor based on hemoglobin incorporated in metal supported bilayer lipid membranes (BLMs): Investigations for enhancement of response characteristics by using platelet-activating factor. <i>Electroanalysis</i> , 1997, 9, 1043-1048.	2.9	14
66	Electrochemical Detection of Hybridization of DNA Oligomers of Mixed Base Sequence by Surface-Stabilized Bilayer Lipid Membranes. <i>Electroanalysis</i> , 2000, 12, 921-925.	2.9	13
67	Rapid Flow Injection Electrochemical Detection of Arochlor 1242 Using Stabilized Lipid Membranes with Incorporated Sheep anti-PCB Antibody. <i>Electroanalysis</i> , 2012, 24, 495-501.	2.9	13
68	Potentiometric cholesterol biosensing application of graphene electrode with stabilized polymeric lipid membrane. <i>Open Chemistry</i> , 2013, 11, 1554-1561.	1.9	13
69	Application of Biosensors Based on Lipid Membranes for the Rapid Detection of Toxins. <i>Biosensors</i> , 2018, 8, 61.	4.7	13
70	The bilayer lipid membrane as a generic electrochemical transducer of hydrolytic enzyme reactions. <i>Biosensors and Bioelectronics</i> , 1994, 9, xxii-xxxvii.	10.1	11
71	Bilayer lipid membranes as electrochemical switches in reactions involving alteration of surface charge. <i>Thin Solid Films</i> , 1994, 244, 917-922.	1.8	11
72	1994 McBryde Medal Award Lecture Investigations of organized monolayer films for biosensor development. <i>Canadian Journal of Chemistry</i> , 1995, 73, 1239-1250.	1.1	11

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73	Flow Injection Analysis of Mixtures of Dopamine, Adrenaline and Ephedrine in Human Biofluids Using Stabilized after Storage in Air Lipid Membranes with a Novel Incorporated Resorcin[4]arene Receptor. <i>Electroanalysis</i> , 2005, 17, 887-894.	2.9	11
74	Flow Potentiometric Injection Analysis of Uric Acid Using Lipid Stabilized Films with Incorporated Uricase on ZnO Nanowires. <i>Electroanalysis</i> , 2012, 24, 1719-1725.	2.9	11
75	Biosensors Based on Lipid Modified Graphene Microelectrodes. <i>Journal of Carbon Research</i> , 2017, 3, 9.	2.7	11
76	Stabilized filter-supported bilayer lipid membranes (BLMs) for automated flow monitoring of compounds of clinical, pharmaceutical, environmental and industrial interest. <i>Journal of Automated Methods and Management in Chemistry</i> , 1997, 19, 1-8.	0.3	10
77	Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal. <i>Analytica Chimica Acta</i> , 1997, 357, 73-77.	5.4	10
78	Rapid Electrochemical Detection of Propranolol and Metoprolol in Pharmaceutical Preparations Using Stabilized Lipid Films. <i>Electroanalysis</i> , 2004, 16, 741-747.	2.9	9
79	Mechanism of Electrochemical Detection of DNA Hybridization by Bilayer Lipid Membranes. <i>Electroanalysis</i> , 1999, 11, 770-773.	2.9	8
80	Rapid Detection of Vanillin in Alcoholic Beverages Using Stabilized Polymerized Lipid Film Based Biosensors. <i>Electroanalysis</i> , 2002, 14, 1661-1667.	2.9	8
81	Electrochemical transduction of interactions of aflatoxin M1 with bilayer lipid membranes (BLMs) for the construction of one-shot sensors. <i>Sensors and Actuators B: Chemical</i> , 1997, 41, 213-216.	7.8	7
82	Biosensors based on bilayer lipid membranes for automated continuous monitoring or rapid screening of environmental pollutants. <i>Laboratory Robotics and Automation</i> , 1997, 9, 285-295.	0.2	7
83	Preparation of a Selective Receptor for Ephedrine for the Rapid Electrochemical Detection of Ephedrine in Human Urine Using Stabilized in Air Lipid Films with Incorporated Ephedrine Receptor. <i>Electroanalysis</i> , 2005, 17, 1870-1877.	2.9	7
84	Protein-Based Graphene Biosensors: Optimizing Artificial Chemoreception in Bilayer Lipid Membranes. <i>Membranes</i> , 2016, 6, 43.	3.0	6
85	Low Calorie Nonnutritive Sweeteners. , 2012, , 79-118.		5
86	Nano-enabled medical devices based on biosensing principles: technology basis and new concepts. <i>AIMS Materials Science</i> , 2017, 4, 250-266.	1.4	5
87	Construction of a Simple Portable Optical Sensor Based on Air Stable Lipid Film with Incorporated Acetylcholinesterase for the Rapid Detection of Carbofuran in Foods. <i>Analytical Letters</i> , 2011, 44, 1265-1276.	1.8	4
88	Point-of-Care and Implantable Biosensors in Cancer Research and Diagnosis. , 2017, , 115-132.		3
89	Nanobiosensors Based on Graphene Electrodes: Recent Trends and Future Applications. , 2018, , 161-177.		3
90	Prototype Biosensing Devices. , 2018, , 1-28.		3

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91	Methods of Analysis of Acesulfame-K and Aspartame. , 2012, , 847-862.		3
92	Methods of Analysis of Saccharin. , 2012, , 863-874.		2
93	Rapid flow injection electrochemical detection of 3,3,4,4-tetrachlorobiphenyl using stabilized lipid membranes with incorporated sheep antibody. Open Chemistry, 2013, 11, 320-323.	1.9	2
94	A Calcium Solid State Ion Selective Minisensor Based on Lipid Films on ZnO Nanorods. Electroanalysis, 2014, 26, 919-923.	2.9	2
95	Potentiometric Biosensing Applications of Graphene Electrodes with Stabilized Polymer Lipid Membranes. Chemosensors, 2018, 6, 25.	3.6	2
96	Challenges and Future Prospects of Nanoadvanced Sensing Technology. , 2019, , 375-396.		1
97	Portable Biosensors for the Rapid Detection of Biochemical Weapons of Terrorism. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 1-14.	0.5	1
98	Applications of Lipid Membranes-based Biosensors for the Rapid Detection of Food Toxicants and Environmental Pollutants. , 2019, , 285-297.		0
99	Nanosensors Based on Lipid Membranes for the Rapid Detection of Food Toxicants. Environmental Chemistry for A Sustainable World, 2021, , 247-259.	0.5	0
100	Ion Channel Switch- and Lipid Film-Based Biosensors. Series in Sensors, 2013, , 197-230.	0.0	0