Christina G Siontorou

List of Publications by Year
in descending order

67 papers	1,415 citations	304743 22 h-index	330143 37 g-index
70 all docs	70 docs citations	70 times ranked	1325 citing authors

#	Article	IF	Citations
1	Artificial Lipid Membranes: Past, Present, and Future. Membranes, 2017, 7, 38.	3.0	124
2	Nanobodies as novel agents for disease diagnosis and therapy. International Journal of Nanomedicine, 2013, 8, 4215.	6.7	103
3	Ammonium Ion Minisensors from Self-Assembled Bilayer Lipid Membranes Using Gramicidin as an Ionophore. Modulation of Ammonium Selectivity by Platelet-Activating Factor. Analytical Chemistry, 1996, 68, 1735-1741.	6.5	97
4	Bilayer Lipid Membranes for Flow Injection Monitoring of Acetylcholine, Urea, and Penicillin. Analytical Chemistry, 1995, 67, 936-944.	6.5	79
5	Stabilized bilayer lipid membranes for flow-through experiments. Electroanalysis, 1995, 7, 531-536.	2.9	63
6	Development of an Electrochemical Biosensor for the Rapid Detection of Saxitoxin Based on Air Stable Lipid Films with Incorporated Antiâ€STX Using Graphene Electrodes. Electroanalysis, 2017, 29, 990-997.	2.9	57
7	Flow Injection Monitoring and Analysis of Mixtures of Hydrazine Compounds Using Filter-Supported Bilayer Lipid Membranes with Incorporated DNA. Analytical Chemistry, 2000, 72, 180-186.	6.5	53
8	Flow injection analysis of carbofuran in foods using air stable lipid film based acetylcholinesterase biosensor. Analytica Chimica Acta, 2005, 537, 169-177.	5.4	53
9	Designing a reliable leak bio-detection system for natural gas pipelines. Journal of Hazardous Materials, 2011, 186, 35-58.	12.4	52
10	Evaluation of a glassy carbon electrode modified by a bilayer lipid membrane with incorporated DNA. Talanta, 1996, 43, 1137-1144.	5.5	50
11	A Triazine Herbicide Minisensor Based on Surface-Stabilized Bilayer Lipid Membranes. Analytical Chemistry, 1997, 69, 3109-3114.	6.5	39
12	Detection of DNA hybridization using self-assembled bilayer lipid membranes (BLMs). Electroanalysis, 1997, 9, 1067-1071.	2.9	36
13	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. Electrochimica Acta, 1998, 43, 3611-3617.	5.2	34
14	Innovation in biotechnology: moving from academic research to product developmentâ€"the case of biosensors. Critical Reviews in Biotechnology, 2010, 30, 79-98.	9.0	34
15	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. Electroanalysis, 2016, 28, 1584-1590.	2.9	31
16	A novel system for environmental monitoring through a cooperative/synergistic scheme between bioindicators and biosensors. Journal of Environmental Management, 2007, 82, 221-239.	7.8	29
17	DNA Biosensor Based on Self-Assembled Bilayer Lipid Membranes for the Detection of Hydrazines. Electroanalysis, 1998, 10, 691-694.	2.9	28
18	Investigating the Causes of Biosensor SNR Decrease by Means of Fault Tree Analysis. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1395-1406.	4.7	28

#	Article	IF	Citations
19	Lipid Membrane Nanosensors for Environmental Monitoring: The Art, the Opportunities, and the Challenges. Sensors, 2018, 18, 284.	3.8	28
20	Bilayer lipid membranes as electrochemical detectors for flow injection immunoanalysis. Electroanalysis, 1995, 7, 1082-1089.	2.9	27
21	Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor. Analytica Chimica Acta, 1997, 355, 227-234.	5.4	25
22	Electrochemical Biosensor for Naphthalene Acetic Acid in Fruits and Vegetables Based on Lipid Films with Incorporated Auxinâ€binding Protein Receptor Using Graphene Electrodes. Electroanalysis, 2016, 28, 2171-2177.	2.9	24
23	Flow Injection Monitoring of Aflatoxin M1 in Cheese Using Filter-Supported Bilayer Lipid Membranes with Incorporated DNA. Electroanalysis, 2000, 12, 747-751.	2.9	22
24	Creating a specific domain ontology for supporting R&D in the science-based sector â€“ The case of biosensors. Expert Systems With Applications, 2012, 39, 9994-10015.	7.6	22
25	Recent Lipid Membrane-Based Biosensing Platforms. Applied Sciences (Switzerland), 2019, 9, 1745.	2.5	22
26	A new scheme for biomonitoring heavy metal concentrations in semi-natural wetlands. Journal of Hazardous Materials, 2008, 158, 340-358.	12.4	21
27	A biosensor platform for soil management: the case of nitrites. Journal of Cleaner Production, 2016, 111, 133-142.	9.3	21
28	Hemoglobin modified bilayer lipid membranes (BLMs) biosensor for carbon dioxide detection. Bioelectrochemistry, 1997, 42, 71-75.	1.0	20
29	A methodological combined framework for roadmapping biosensor research: a fault tree analysis approach within a strategic technology evaluation frame. Critical Reviews in Biotechnology, 2014, 34, 31-55.	9.0	19
30	A Knowledge-Based Approach to Environmental Biomonitoring. Environmental Monitoring and Assessment, 2006, 123, 167-197.	2.7	18
31	The Application of Lipid Membranes in Biosensing. Membranes, 2018, 8, 108.	3.0	17
32	Novel Biosensors for the Rapid Detection of Toxicants in Foods. Advances in Food and Nutrition Research, 2018, 84, 57-102.	3.0	16
33	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. Electroanalysis, 1997, 9, 1043-1048.	2.9	14
34	Carbohydrate Detection Failure Analysis via Biosensoring. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2856-2867.	4.7	13
35	Rapid Flow Injection Electrochemical Detection of Arochlor 1242 Using Stabilized Lipid Membranes with Incorporated Sheep antiâ€PCB Antibody. Electroanalysis, 2012, 24, 495-501.	2.9	13
36	Application of Biosensors Based on Lipid Membranes for the Rapid Detection of Toxins. Biosensors, 2018, 8, 61.	4.7	13

#	Article	IF	Citations
37	Error identification/propagation/remediation in biomonitoring surveysâ€"A knowledge-based approach towards standardization via fault tree analysis. Ecological Indicators, 2011, 11, 564-581.	6.3	9
38	Biosensors based on bilayer lipid membranes for automated continuous monitoring or rapid screening of environmental pollutants. Laboratory Robotics and Automation, 1997, 9, 285-295.	0.2	7
39	Designing biosensor networks for the environmental risk assessment of aquatic systems. Critical Reviews in Environmental Science and Technology, 2017, 47, 40-63.	12.8	7
40	Protein-Based Graphene Biosensors: Optimizing Artificial Chemoreception in Bilayer Lipid Membranes. Membranes, 2016, 6, 43.	3.0	6
41	Nano-enabled medical devices based on biosensing principles: technology basis and new concepts. AIMS Materials Science, 2017, 4, 250-266.	1.4	5
42	Measuring Uncertainty in Lichen Biomonitoring of Atmospheric Pollution: The Case of $hbox{SO}_{2}$. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3207-3220.	4.7	4
43	Managing Uncertainty in Environmental Decision-Making Within Ecological Constraints -A Model Based Reasoning Approach. Procedia Engineering, 2012, 42, 1137-1149.	1.2	4
44	Boosting the advantages of biosensors: Niche applicability and fitness for environmental purpose. Trends in Environmental Analytical Chemistry, 2021, 32, e00146.	10.3	4
45	Critical success factors for total quality management in primary and secondary education. International Journal of Services and Operations Management, 2021, 40, 564.	0.2	4
46	Determining the Sources of Measurement Uncertainty in Environmental Cell-Based Biosensing. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 794-804.	4.7	3
47	Point-of-Care and Implantable Biosensors in Cancer Research and Diagnosis. , 2017, , 115-132.		3
48	Carbohydrate Detection Failure Analysis via Biosensoring. , 2006, , .		2
49	Potentiometric Biosensing Applications of Graphene Electrodes with Stabilized Polymer Lipid Membranes. Chemosensors, 2018, 6, 25.	3.6	2
50	Metal-supported self-assembled bilayer lipid membrane incorporated with peroxidase for the detection of peroxide. Results in Engineering, 2021, 12, 100312.	5.1	2
51	Endogenous estimation of safety coefficient for optimal design of biochemical reactors at industrial level. , 2012, , .		1
52	Thinking by Analogy for Technology Transfer from Catalysts to Biosensors and Vice versaâ€"a Knowledge-based Approach. Procedia Engineering, 2012, 42, 1889-1896.	1.2	1
53	Challenges and Future Prospects of Nanoadvanced Sensing Technology. , 2019, , 375-396.		1
54	A Ready-to-Use Metal-Supported Bilayer Lipid Membrane Biosensor for the Detection of Phenol in Water. Membranes, 2021, 11, 871.	3.0	1

#	Article	IF	Citations
55	Moving from Spontaneous to Cooperative/Concurrent R&D in Biotechnology - The Case of Biosensors. , 2006, , .		0
56	Natural Chemoreception in the Service of Environmental Biosensingâ€"A Computer Aided Design Framework for Biomass Monitoring. , 2009, , .		0
57	Computational and Experimental Biomonitoring Transboundary Pollution for Optimizing Industrial Effluent Parameters. , 2009, , .		0
58	On the optimal design of molecular sensing interfaces with lipid bilayer assemblies â€“ A knowledge based approach. , 2012, , .		0
59	Computer aided design of medicinal products based on interactive chemical/herbal ingredients â€“ An R&D approach. , 2012, , .		0
60	Applications of Lipid Membranes-based Biosensors for the Rapid Detection of Food Toxicants and Environmental Pollutants. , 2019, , 285-297.		0
61	Based on Lipid Films for Environmental Applications. Environmental Chemistry for A Sustainable World, 2021, , 97-108.	0.5	0
62	Nanosensors Based on Lipid Membranes for the Rapid Detection of Food Toxicants. Environmental Chemistry for A Sustainable World, 2021, , 247-259.	0.5	0
63	University-Industry Relationships for the Development and Commercialization of Biosensors. , 2022, , 707-722.		0
64	Carbohydrate Detection Failure Analysis via Biosensoring. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
65	KNOWLEDGE MANAGEMENT FOR LAKE RESTORATION STRATEGY IN PROTECTED AREAS. , 2010, , .		0
66	University-Industry Relationships for the Development and Commercialization of Biosensors. , 2019, , 1-16.		0
67	University-Industry Relationships for the Development and Commercialization of Biosensors. , 2020, , 1-16.		0