## **Chantal Compere**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	ANTARES: The first undersea neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 656, 11-38.	1.6	441
2	Biofouling protection for marine environmental sensors. Ocean Science, 2010, 6, 503-511.	3.4	182
3	The ANTARES optical module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 484, 369-383.	1.6	161
4	Effects of commercial enzymes on the adhesion of a marine biofilm-forming bacterium. Biofouling, 2008, 24, 11-22.	2.2	141
5	Influence of stainless steel surface treatment on the oxygen reduction reaction in seawater. Corrosion Science, 2001, 43, 765-786.	6.6	139
6	The data acquisition system for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 107-116.	1.6	138
7	Chalcogenide Glass Optical Waveguides for Infrared Biosensing. Sensors, 2009, 9, 7398-7411.	3.8	135
8	Kinetics of conditioning layer formation on stainless steel immersed in seawater. Biofouling, 2001, 17, 129-145.	2.2	103
9	Building of an immunosensor: How can the composition and structure of the thiol attachment layer affect the immunosensor efficiency?. Biosensors and Bioelectronics, 2006, 22, 440-448.	10.1	102
10	Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155.	4.3	101
11	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	4.3	99
12	Detection of polycyclic aromatic hydrocarbon (PAH) compounds in artificial sea-water using surface-enhanced Raman scattering (SERS). Talanta, 2009, 79, 199-204.	5.5	99
13	Immobilization of Protein A on SAMs for the elaboration of immunosensors. Colloids and Surfaces B: Biointerfaces, 2006, 53, 215-224.	5.0	92
14	Antibiofilm Activity of the Marine Bacterium <i>Pseudoalteromonas</i> sp. Strain 3J6. Applied and Environmental Microbiology, 2010, 76, 3452-3461.	3.1	92
15	Development of environmentally friendly antifouling paints using biodegradable polymer and lower toxic substances. Progress in Organic Coatings, 2014, 77, 485-493.	3.9	78
16	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. Corrosion Science, 1998, 40, 481-494.	6.6	76
17	Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 555, 132-141.	1.6	71
18	Quantitative SERS sensors for environmental analysis of naphthalene. Analyst, The, 2011, 136, 1018-1022.	3.5	70

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19	Background light in potential sites for the ANTARES undersea neutrino telescope. Astroparticle Physics, 2000, 13, 127-136.	4.3	65
20	The ANTARES optical beacon system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 498-509.	1.6	61
21	Development of a Mass Sensitive Quartz Crystal Microbalance (QCM)-Based DNA Biosensor Using a 50 MHz Electronic Oscillator Circuit. Sensors, 2011, 11, 7656-7664.	3.8	61
22	Sedimentation and fouling of optical surfaces at the ANTARES site. Astroparticle Physics, 2003, 19, 253-267.	4.3	51
23	RF sputtered amorphous chalcogenide thin films for surface enhanced infrared absorption spectroscopy. Optical Materials Express, 2013, 3, 2112.	3.0	50
24	Surface Characterization of Three Marine Bacterial Strains by Fourier Transform IR, X-ray Photoelectron Spectroscopy, and Time-of-Flight Secondary-Ion Mass Spectrometry, Correlation with Adhesion on Stainless Steel Surfaces. Journal of Physical Chemistry B, 2005, 109, 9540-9549.	2.6	49
25	Influence of subtilisin on the adhesion of a marine bacterium which produces mainly proteins as extracellular polymers. Journal of Applied Microbiology, 2008, 105, 791-799.	3.1	47
26	A marine bacterial adhesion microplate test using the DAPI fluorescent dye: a new method to screen antifouling agents. Letters in Applied Microbiology, 2007, 44, 372-378.	2.2	46
27	Surface plasmon resonance in chalcogenide glass-based optical system. Sensors and Actuators B: Chemical, 2008, 130, 771-776.	7.8	43
28	In situ QCM DNA-biosensor probe modification. Sensors and Actuators B: Chemical, 2006, 120, 329-337.	7.8	42
29	Anti-rabbit immunoglobulin G detection in complex medium by PM-RAIRS and QCM. Biosensors and Bioelectronics, 2007, 22, 2884-2890.	10.1	40
30	The anti-biofilm activity secreted by a marine <i>Pseudoalteromonas</i> strain. Biofouling, 2011, 27, 931-940.	2.2	40
31	Role of salts on BSA adsorption on stainless steel in aqueous solutions. I. FT-IRRAS and XPS characterization. Surface and Interface Analysis, 2002, 34, 50-54.	1.8	39
32	Surface enhanced infrared absorption (SEIRA) spectroscopy using gold nanoparticles on As2S3 glass. Sensors and Actuators B: Chemical, 2012, 175, 142-148.	7.8	37
33	The corrosion evaluation of painted and artificially damaged painted steel panels by AC impedance measurements. Corrosion Science, 1993, 34, 1259-1274.	6.6	36
34	Adsorption of proteins on an AISI 316 stainless-steel surface in natural seawater. Surface and Interface Analysis, 2000, 30, 45-49.	1.8	33
35	Proteomic studies highlight outerâ€membrane proteins related to biofilm development in the marine bacterium Pseudoalteromonas sp. D41. Proteomics, 2012, 12, 3180-3192.	2.2	33
36	Antifouling Properties of Poly(methyl methacrylate) Films Grafted with Poly(ethylene glycol) Monoacrylate Immersed in Seawaterâ€. Langmuir, 2008, 24, 12272-12281.	3.5	31

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37	Time-of-flight secondary ion mass spectrometry: characterisation of stainless steel surfaces immersed in natural seawater. Journal of Microbiological Methods, 2002, 48, 195-205.	1.6	30
38	One step immunochromatographic assay for the rapid detection of Alexandrium minutum. Biosensors and Bioelectronics, 2010, 25, 1235-1239.	10.1	30
39	Evaluation of the corrosion resistance of painted steels by impedance measurements. Corrosion Science, 1992, 33, 1067-1081.	6.6	29
40	Modified wire beam electrode: a useful tool to evaluate compatibility between organic coatings and cathodic protection. Progress in Organic Coatings, 2005, 52, 118-125.	3.9	26
41	Monoclonal antibody against the surface of Alexandrium minutum used in a whole-cell ELISA. Harmful Algae, 2009, 8, 538-545.	4.8	24
42	Role of salts on the BSA adsorption on stainless steel in aqueous solutions. II. ToF-SIMS spectral and chemical mapping study. Surface and Interface Analysis, 2002, 34, 55-58.	1.8	21
43	Oligonucleotide quartz crystal microbalance sensor for the microalgae Alexandrium minutum (Dinophyceae). Biosensors and Bioelectronics, 2006, 21, 1355-1358.	10.1	21
44	ToF–SIMS chemical mapping study of protein adsorption onto stainless steel surfaces immersed in saline aqueous solutions. Applied Surface Science, 2003, 203-204, 693-697.	6.1	20
45	Organometallic nanoprobe to enhance optical response on the polycyclic aromatic hydrocarbon benzo[a]pyrene immunoassay using SERS technology. Environmental Science and Pollution Research, 2017, 24, 27070-27076.	5.3	18
46	Electrochemical impedance spectroscopy of a free-standing oxide film. Electrochimica Acta, 2002, 47, 1043-1053.	5.2	17
47	Characterization of Biofilms Formed on Gold in Natural Seawater by Oxygen Diffusion Analysis. Corrosion, 1997, 53, 4-10.	1.1	16
48	A surface plasmon resonance system for the underwater detection of domoic acid. Limnology and Oceanography: Methods, 2016, 14, 456-465.	2.0	16
49	Aging of Type 316L Stainless Steel in Seawater: Relationship Between Open-Circuit Potential, Exposure Time, and Pitting Potential. Corrosion, 1996, 52, 496-501.	1.1	15
50	Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581. 695-708.	1.6	13
51	In situ measurement with diffusive gradients in thin films: effect of biofouling in freshwater. Environmental Science and Pollution Research, 2017, 24, 13797-13807.	5.3	13
52	First Steps of in situ Surface-Enhanced Raman Scattering during Shipboard Experiments. Applied Spectroscopy, 2010, 64, 1086-1093.	2.2	12
53	Thiol- and Biotin-Labeled Probes for Oligonucleotide Quartz Crystal Microbalance Biosensors of Microalga Alexandrium Minutum. Biosensors, 2012, 2, 245-254.	4.7	12
54	45- and 70-Base DNA supramolecular polymerizations on quartz crystal microbalance biosensor. Chemical Communications, 2005, , 6020.	4.1	11

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55	Direct and fast detection of Alexandrium minutum algae by using high frequency microbalance. Journal of Microbiological Methods, 2014, 104, 49-54.	1.6	11
56	Modeling of the adsorption on Cr2O3 clusters of small molecules and ions present in seawater. A preliminary non-empirical study. New Journal of Chemistry, 2000, 24, 993-998.	2.8	8
57	What governs marine fouling assemblages on chemically-active antifouling coatings?. Progress in Organic Coatings, 2022, 164, 106701.	3.9	8
58	Behavior of phenolic-coated steel in concentrated sulfuric acid. Progress in Organic Coatings, 1992, 20, 187-198.	3.9	5
59	Semiconducting Behaviour of Stainless Steel Passive Films in Contact with Artificial Seawater. Materials Science Forum, 1998, 289-292, 887-894.	0.3	5
60	XPS characterisation of BSA adsorption on stainless steel. , 2006, , 365-370.		5
61	Chalcogenide waveguide for IR optical range. , 2007, , .		5
62	A biosensor for detection of DNA sequences based on a 50MHz QCM electronic oscillator circuit. , 2009, , .		5
63	Surface Enhanced Infrared Absorption (SEIRA) Spectroscopy using Gold Nanoparticles on As2S3 Glass. Procedia Engineering, 2011, 25, 1645-1648.	1.2	5
64	DNA hybridization mechanism in an interfacial environment: What hides beneath first order k (sâ^'1) kinetic constant?. Sensors and Actuators B: Chemical, 2012, 171-172, 522-527.	7.8	5
65	Surface enhanced infrared absorption by nanoantenna on chalcogenide glass substrates. Applied Physics Letters, 2015, 106, 073103.	3.3	5
66	Biofouling protection for marine underwater observatories sensors. , 2009, , .		3
67	The effect of the salinity level on conductivity sensor calibration. EPJ Web of Conferences, 2014, 77, 00015.	0.3	3
68	Toward in situ detection of algae species. , 2009, , .		2
69	How to Control Accessibility to Biosensor Probes?. Sensor Letters, 2009, 7, 952-956.	0.4	2
70	Improving the Sensitivity of the Plasmon-Based Sensor by Asymmetric Nanoarray. Plasmonics, 2022, 17, 525-531.	3.4	2
71	Effect of 3,5-Dinitrosalicylic Acid on Passivation of Copper during Electrorefining. Materials Science Forum, 1992, 111-112, 329-344.	0.3	1
72	Layer-by-Layer DNA film synthesis via branched hybridization. Irbm, 2008, 29, 133-135.	5.6	1

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73	Towards in situ detection of PAH trace in seawater using SERS-active sensors. Proceedings of SPIE, 2009, , .	0.8	1
74	Toward detection of harmful algae blooms by in situ surface plasmon resonance spectroscopy. , 2009, , .		1
75	Strategy to design DNA-biosensors: Single-stranded probe grafting versus target–probe duplex grafting. Sensors and Actuators B: Chemical, 2012, 171-172, 719-725.	7.8	1
76	Chalcogenide Glasses for Mid-IR Photonic Applications. , 2014, , .		1
77	Theoretical Study of High Near-Field Enhancement Associated with the Lasing Action in Strongly Coupled Plasmonic Nanocavity Arrays. Journal of Physical Chemistry C, 2021, 125, 749-756.	3.1	1
78	Fonctionnalisation de surfaces d'acier inoxydable par des enzymes en vue d'inhiber l'adhésion de bactéries et la formation de biofilms en eau de mer. Materiaux Et Techniques, 2006, 94, 455-465.	0.9	1
79	Effect of plasmonic mode on plasmon-based lasers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 3110.	2.1	1
80	AFM study of the formation of conditioning films on stainless steel in artificial sea water. Biology of the Cell, 1999, 91, 281-281.	2.0	0
81	Design and implementation of a DNA biosensor based on a 50MHz QCM electronic oscillator circuit. , 2009, , .		Ο
82	New SERS Substrates For Polycyclic Aromatic Hydrocarbon (PAH) Detection: Towards Quantitative SERS Sensors For Environmental Analysis. , 2010, , .		0
83	Infrared sensor for water pollution and monitoring. Proceedings of SPIE, 2017, , .	0.8	0
84	A dissolved oxygen calibration bench. , 2013, , .		0
85	An Example: Biofouling Protection for Marine Environmental Sensors by Local Chlorination. Springer Series on Biofilms, 2008, , .	0.1	0