

# Chantal Compere

## List of Publications by Year in descending order

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85  
papers

3,570  
citations

126708

33  
h-index

133063

59  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4617  
citing authors

#	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.	0.7	441
2	Biofouling protection for marine environmental sensors. Ocean Science, 2010, 6, 503-511.	1.3	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.	0.7	161
4	Effects of commercial enzymes on the adhesion of a marine biofilm-forming bacterium. Biofouling, 2008, 24, 11-22.	0.8	141
5	Influence of stainless steel surface treatment on the oxygen reduction reaction in seawater. Corrosion Science, 2001, 43, 765-786.	3.0	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.	0.7	138
7	Chalcogenide Glass Optical Waveguides for Infrared Biosensing. Sensors, 2009, 9, 7398-7411.	2.1	135
8	Kinetics of conditioning layer formation on stainless steel immersed in seawater. Biofouling, 2001, 17, 129-145.	0.8	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.	5.3	102
10	Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155.	1.9	101
11	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	1.9	99
12	Detection of polycyclic aromatic hydrocarbon (PAH) compounds in artificial sea-water using surface-enhanced Raman scattering (SERS). Talanta, 2009, 79, 199-204.	2.9	99
13	Immobilization of Protein A on SAMs for the elaboration of immunosensors. Colloids and Surfaces B: Biointerfaces, 2006, 53, 215-224.	2.5	92
14	Antibiofilm Activity of the Marine Bacterium <i>Pseudoalteromonas</i> sp. Strain 3J6. Applied and Environmental Microbiology, 2010, 76, 3452-3461.	1.4	92
15	Development of environmentally friendly antifouling paints using biodegradable polymer and lower toxic substances. Progress in Organic Coatings, 2014, 77, 485-493.	1.9	78
16	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. Corrosion Science, 1998, 40, 481-494.	3.0	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.	0.7	71
18	Quantitative SERS sensors for environmental analysis of naphthalene. Analyst, The, 2011, 136, 1018-1022.	1.7	70

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19	Background light in potential sites for the ANTARES undersea neutrino telescope. <i>Astroparticle Physics</i> , 2000, 13, 127-136.	1.9	65
20	The ANTARES optical beacon system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 578, 498-509.	0.7	61
21	Development of a Mass Sensitive Quartz Crystal Microbalance (QCM)-Based DNA Biosensor Using a 50 MHz Electronic Oscillator Circuit. <i>Sensors</i> , 2011, 11, 7656-7664.	2.1	61
22	Sedimentation and fouling of optical surfaces at the ANTARES site. <i>Astroparticle Physics</i> , 2003, 19, 253-267.	1.9	51
23	RF sputtered amorphous chalcogenide thin films for surface enhanced infrared absorption spectroscopy. <i>Optical Materials Express</i> , 2013, 3, 2112.	1.6	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. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9540-9549.	1.2	49
25	Influence of subtilisin on the adhesion of a marine bacterium which produces mainly proteins as extracellular polymers. <i>Journal of Applied Microbiology</i> , 2008, 105, 791-799.	1.4	47
26	A marine bacterial adhesion microplate test using the DAPI fluorescent dye: a new method to screen antifouling agents. <i>Letters in Applied Microbiology</i> , 2007, 44, 372-378.	1.0	46
27	Surface plasmon resonance in chalcogenide glass-based optical system. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 771-776.	4.0	43
28	In situ QCM DNA-biosensor probe modification. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 329-337.	4.0	42
29	Anti-rabbit immunoglobulin G detection in complex medium by PM-RAIRS and QCM. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2884-2890.	5.3	40
30	The anti-biofilm activity secreted by a marine <i>Pseudoalteromonas</i> strain. <i>Biofouling</i> , 2011, 27, 931-940.	0.8	40
31	Role of salts on BSA adsorption on stainless steel in aqueous solutions. I. FT-IRRAS and XPS characterization. <i>Surface and Interface Analysis</i> , 2002, 34, 50-54.	0.8	39
32	Surface enhanced infrared absorption (SEIRA) spectroscopy using gold nanoparticles on As <sub>2</sub> S <sub>3</sub> glass. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 142-148.	4.0	37
33	The corrosion evaluation of painted and artificially damaged painted steel panels by AC impedance measurements. <i>Corrosion Science</i> , 1993, 34, 1259-1274.	3.0	36
34	Adsorption of proteins on an AISI 316 stainless-steel surface in natural seawater. <i>Surface and Interface Analysis</i> , 2000, 30, 45-49.	0.8	33
35	Proteomic studies highlight outer membrane proteins related to biofilm development in the marine bacterium <i>Pseudoalteromonas</i> sp. D41. <i>Proteomics</i> , 2012, 12, 3180-3192.	1.3	33
36	Antifouling Properties of Poly(methyl methacrylate) Films Grafted with Poly(ethylene glycol) Monoacrylate Immersed in Seawater. <i>Langmuir</i> , 2008, 24, 12272-12281.	1.6	31

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37	Time-of-flight secondary ion mass spectrometry: characterisation of stainless steel surfaces immersed in natural seawater. <i>Journal of Microbiological Methods</i> , 2002, 48, 195-205.	0.7	30
38	One step immunochromatographic assay for the rapid detection of <i>Alexandrium minutum</i> . <i>Biosensors and Bioelectronics</i> , 2010, 25, 1235-1239.	5.3	30
39	Evaluation of the corrosion resistance of painted steels by impedance measurements. <i>Corrosion Science</i> , 1992, 33, 1067-1081.	3.0	29
40	Modified wire beam electrode: a useful tool to evaluate compatibility between organic coatings and cathodic protection. <i>Progress in Organic Coatings</i> , 2005, 52, 118-125.	1.9	26
41	Monoclonal antibody against the surface of <i>Alexandrium minutum</i> used in a whole-cell ELISA. <i>Harmful Algae</i> , 2009, 8, 538-545.	2.2	24
42	Role of salts on the BSA adsorption on stainless steel in aqueous solutions. II. ToF-SIMS spectral and chemical mapping study. <i>Surface and Interface Analysis</i> , 2002, 34, 55-58.	0.8	21
43	Oligonucleotide quartz crystal microbalance sensor for the microalgae <i>Alexandrium minutum</i> (Dinophyceae). <i>Biosensors and Bioelectronics</i> , 2006, 21, 1355-1358.	5.3	21
44	ToF-SIMS chemical mapping study of protein adsorption onto stainless steel surfaces immersed in saline aqueous solutions. <i>Applied Surface Science</i> , 2003, 203-204, 693-697.	3.1	20
45	Organometallic nanoprobe to enhance optical response on the polycyclic aromatic hydrocarbon benzo[a]pyrene immunoassay using SERS technology. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27070-27076.	2.7	18
46	Electrochemical impedance spectroscopy of a free-standing oxide film. <i>Electrochimica Acta</i> , 2002, 47, 1043-1053.	2.6	17
47	Characterization of Biofilms Formed on Gold in Natural Seawater by Oxygen Diffusion Analysis. <i>Corrosion</i> , 1997, 53, 4-10.	0.5	16
48	A surface plasmon resonance system for the underwater detection of domoic acid. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 456-465.	1.0	16
49	Aging of Type 316L Stainless Steel in Seawater: Relationship Between Open-Circuit Potential, Exposure Time, and Pitting Potential. <i>Corrosion</i> , 1996, 52, 496-501.	0.5	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. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 695-708.	0.7	13
51	In situ measurement with diffusive gradients in thin films: effect of biofouling in freshwater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13797-13807.	2.7	13
52	First Steps of in situ Surface-Enhanced Raman Scattering during Shipboard Experiments. <i>Applied Spectroscopy</i> , 2010, 64, 1086-1093.	1.2	12
53	Thiol- and Biotin-Labeled Probes for Oligonucleotide Quartz Crystal Microbalance Biosensors of Microalga <i>Alexandrium Minutum</i> . <i>Biosensors</i> , 2012, 2, 245-254.	2.3	12
54	45- and 70-Base DNA supramolecular polymerizations on quartz crystal microbalance biosensor. <i>Chemical Communications</i> , 2005, , 6020.	2.2	11

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55	Direct and fast detection of <i>Alexandrium minutum</i> algae by using high frequency microbalance. <i>Journal of Microbiological Methods</i> , 2014, 104, 49-54.	0.7	11
56	Modeling of the adsorption on Cr <sub>2</sub> O <sub>3</sub> clusters of small molecules and ions present in seawater. A preliminary non-empirical study. <i>New Journal of Chemistry</i> , 2000, 24, 993-998.	1.4	8
57	What governs marine fouling assemblages on chemically-active antifouling coatings?. <i>Progress in Organic Coatings</i> , 2022, 164, 106701.	1.9	8
58	Behavior of phenolic-coated steel in concentrated sulfuric acid. <i>Progress in Organic Coatings</i> , 1992, 20, 187-198.	1.9	5
59	Semiconducting Behaviour of Stainless Steel Passive Films in Contact with Artificial Seawater. <i>Materials Science Forum</i> , 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 As <sub>2</sub> S <sub>3</sub> Glass. <i>Procedia Engineering</i> , 2011, 25, 1645-1648.	1.2	5
64	DNA hybridization mechanism in an interfacial environment: What hides beneath first order k (s <sup>-1</sup> ) kinetic constant?. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 522-527.	4.0	5
65	Surface enhanced infrared absorption by nanoantenna on chalcogenide glass substrates. <i>Applied Physics Letters</i> , 2015, 106, 073103.	1.5	5
66	Biofouling protection for marine underwater observatories sensors. , 2009, , .		3
67	The effect of the salinity level on conductivity sensor calibration. <i>EPJ Web of Conferences</i> , 2014, 77, 00015.	0.1	3
68	Toward in situ detection of algae species. , 2009, , .		2
69	How to Control Accessibility to Biosensor Probes?. <i>Sensor Letters</i> , 2009, 7, 952-956.	0.4	2
70	Improving the Sensitivity of the Plasmon-Based Sensor by Asymmetric Nanoarray. <i>Plasmonics</i> , 2022, 17, 525-531.	1.8	2
71	Effect of 3,5-Dinitrosalicylic Acid on Passivation of Copper during Electrorefining. <i>Materials Science Forum</i> , 1992, 111-112, 329-344.	0.3	1
72	Layer-by-Layer DNA film synthesis via branched hybridization. <i>Irbm</i> , 2008, 29, 133-135.	3.7	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 targetâ€“probe duplex grafting. Sensors and Actuators B: Chemical, 2012, 171-172, 719-725.	4.0	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.	1.5	1
78	Fonctionnalisation de surfaces d'acier inoxydable par des enzymes en vue d'inhiber l'adhÃ©sion de bactÃ©ries et la formation de biofilms en eau de mer. Materiaux Et Techniques, 2006, 94, 455-465.	0.3	1
79	Effect of plasmonic mode on plasmon-based lasers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 3110.	0.9	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.	0.7	0
81	Design and implementation of a DNA biosensor based on a 50MHz QCM electronic oscillator circuit. , 2009, , .		0
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, , .	0.0	0