Chantal Compere

List of Publications by Citations

80 papers	3,021 citations	32 h-index	54 g-index
88 ext. papers	3,263 ext. citations	4.2 avg, IF	4.26 L-index

#	Paper	IF	Citations
80	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	1.2	363
79	Biofouling protection for marine environmental sensors. *Ocean Science*, **2010**, 6, 503-511	4	137
78	The ANTARES optical module. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 484, 369-383	1.2	134
77	Effects of commercial enzymes on the adhesion of a marine biofilm-forming bacterium. *Biofouling*, **2008**, 24, 11-22	3.3	128
76	Influence of stainless steel surface treatment on the oxygen reduction reaction in seawater. *Corrosion Science*, **2001**, 43, 765-786	6.8	119
75	Chalcogenide glass optical waveguides for infrared biosensing. *Sensors*, **2009**, 9, 7398-411	3.8	117
74	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	1.2	113
73	Kinetics of conditioning layer formation on stainless steel immersed in seawater. *Biofouling*, **2001**, 17, 129-145	3.3	97
72	Building of an immunosensor: how can the composition and structure of the thiol attachment layer affect the immunosensor efficiency?. *Biosensors and Bioelectronics*, **2006**, 22, 440-8	11.8	89
71	Immobilization of Protein A on SAMs for the elaboration of immunosensors. *Colloids and Surfaces B: Biointerfaces*, **2006**, 53, 215-24	6	88
70	Detection of polycyclic aromatic hydrocarbon (PAH) compounds in artificial sea-water using surface-enhanced Raman scattering (SERS). *Talanta*, **2009**, 79, 199-204	6.2	85
69	Transmission of light in deep sea water at the site of the Antares neutrino telescope. *Astroparticle Physics*, **2005**, 23, 131-155	2.4	79
68	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. *Astroparticle Physics*, **2006**, 26, 314-324	2.4	76
67	Antibiofilm activity of the marine bacterium Pseudoalteromonas sp. strain 3J6. *Applied and Environmental Microbiology*, **2010**, 76, 3452-61	4.8	70
66	Development of environmentally friendly antifouling paints using biodegradable polymer and lower toxic substances. *Progress in Organic Coatings*, **2014**, 77, 485-493	4.8	69
65	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. *Corrosion Science*, **1998**, 40, 481-494	6.8	69
64	Quantitative SERS sensors for environmental analysis of naphthalene. *Analyst, The*, **2011**, 136, 1018-22	5	63

63	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	1.2	61
62	Background light in potential sites for the ANTARES undersea neutrino telescope. *Astroparticle Physics*, **2000**, 13, 127-136	2.4	57
61	The ANTARES optical beacon system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 578, 498-509	1.2	49
60	Sedimentation and fouling of optical surfaces at the ANTARES site. *Astroparticle Physics*, **2003**, 19, 253-267	2.4	46
59	Influence of subtilisin on the adhesion of a marine bacterium which produces mainly proteins as extracellular polymers. *Journal of Applied Microbiology*, **2008**, 105, 791-9	4.7	45
58	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, 9540-9	3.4	45
57	RF sputtered amorphous chalcogenide thin films for surface enhanced infrared absorption spectroscopy. *Optical Materials Express*, **2013**, 3, 2112	2.6	43
56	Development of a mass sensitive quartz crystal microbalance (QCM)-based DNA biosensor using a 50 MHz electronic oscillator circuit. *Sensors*, **2011**, 11, 7656-64	3.8	43
55	A marine bacterial adhesion microplate test using the DAPI fluorescent dye: a new method to screen antifouling agents. *Letters in Applied Microbiology*, **2007**, 44, 372-8	2.9	43
54	Surface plasmon resonance in chalcogenide glass-based optical system. *Sensors and Actuators B: Chemical*, **2008**, 130, 771-776	8.5	38
53	In situ QCM DNA-biosensor probe modification. *Sensors and Actuators B: Chemical*, **2006**, 120, 329-337	8.5	37
52	Anti-rabbit immunoglobulin G detection in complex medium by PM-RAIRS and QCM Influence of the antibody immobilisation method. *Biosensors and Bioelectronics*, **2007**, 22, 2884-90	11.8	36
51	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	1.5	35
50	The anti-biofilm activity secreted by a marine Pseudoalteromonas strain. *Biofouling*, **2011**, 27, 931-40	3.3	33
49	The corrosion evaluation of painted and artificially damaged painted steel panels by AC impedance measurements. *Corrosion Science*, **1993**, 34, 1259-1274	6.8	32
48	Antifouling properties of poly(methyl methacrylate) films grafted with poly(ethylene glycol) monoacrylate immersed in seawater. *Langmuir*, **2008**, 24, 12272-81	4	30
47	Adsorption of proteins on an AISI 316 stainless-steel surface in natural seawater *Surface and Interface Analysis*, **2000**, 30, 45-49	1.5	30
46	Proteomic studies highlight outer-membrane proteins related to biofilm development in the marine bacterium Pseudoalteromonas sp. D41. *Proteomics*, **2012**, 12, 3180-92	4.8	28

45	One step immunochromatographic assay for the rapid detection of Alexandrium minutum. *Biosensors and Bioelectronics*, **2010**, 25, 1235-9	11.8	27
44	Surface enhanced infrared absorption (SEIRA) spectroscopy using gold nanoparticles on As2S3 glass. *Sensors and Actuators B: Chemical*, **2012**, 175, 142-148	8.5	26
43	Time-of-flight secondary ion mass spectrometry: characterisation of stainless steel surfaces immersed in natural seawater. *Journal of Microbiological Methods*, **2002**, 48, 195-205	2.8	25
42	Evaluation of the corrosion resistance of painted steels by impedance measurements. *Corrosion Science*, **1992**, 33, 1067-1081	6.8	25
41	Monoclonal antibody against the surface of Alexandrium minutum used in a whole-cell ELISA. *Harmful Algae*, **2009**, 8, 538-545	5.3	22
40	Oligonucleotide quartz crystal microbalance sensor for the microalgae Alexandrium minutum (Dinophyceae). *Biosensors and Bioelectronics*, **2006**, 21, 1355-8	11.8	21
39	Modified wire beam electrode: a useful tool to evaluate compatibility between organic coatings and cathodic protection. *Progress in Organic Coatings*, **2005**, 52, 118-125	4.8	20
38	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	6.7	19
37	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	1.5	18
36	Electrochemical impedance spectroscopy of a free-standing oxide film. *Electrochimica Acta*, **2002**, 47, 1043-1053	6.7	16
35	Aging of Type 316L Stainless Steel in Seawater: Relationship Between Open-Circuit Potential, Exposure Time, and Pitting Potential. *Corrosion*, **1996**, 52, 496-501	1.8	14
34	A surface plasmon resonance system for the underwater detection of domoic acid. *Limnology and Oceanography: Methods*, **2016**, 14, 456-465	2.6	13
33	In situ measurement with diffusive gradients in thin films: effect of biofouling in freshwater. *Environmental Science and Pollution Research*, **2017**, 24, 13797-13807	5.1	12
32	Characterization of Biofilms Formed on Gold in Natural Seawater by Oxygen Diffusion Analysis. *Corrosion*, **1997**, 53, 4-10	1.8	12
31	Thiol- and biotin-labeled probes for oligonucleotide quartz crystal microbalance biosensors of microalga alexandrium minutum. *Biosensors*, **2012**, 2, 245-54	5.9	11
30	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	1.2	11
29	45- and 70-base DNA supramolecular polymerizations on quartz crystal microbalance biosensor. *Chemical Communications*, **2005**, 6020-2	5.8	11
28	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	5.1	10

27	First steps of in situ surface-enhanced Raman scattering during shipboard experiments. *Applied Spectroscopy*, **2010**, 64, 1086-93	3.1	9
26	Direct and fast detection of Alexandrium minutum algae by using high frequency microbalance. *Journal of Microbiological Methods*, **2014**, 104, 49-54	2.8	8
25	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	3.6	8
24	Surface enhanced infrared absorption by nanoantenna on chalcogenide glass substrates. *Applied Physics Letters*, **2015**, 106, 073103	3.4	5
23	Surface Enhanced Infrared Absorption (SEIRA) Spectroscopy using Gold Nanoparticles on As2S3 Glass. *Procedia Engineering*, **2011**, 25, 1645-1648		5
22	Biofouling protection for marine environmental sensors		5
21	DNA hybridization mechanism in an interfacial environment: What hides beneath first order k (s-1) kinetic constant?. *Sensors and Actuators B: Chemical*, **2012**, 171-172, 522-527	8.5	4
20	Chalcogenide waveguide for IR optical range **2007**,		4
19	XPS characterisation of BSA adsorption on stainless steel **2006**, 365-370		4
18	Behavior of phenolic-coated steel in concentrated sulfuric acid. *Progress in Organic Coatings*, **1992**, 20, 187-198	4.8	4
17	Efficacy testing of biocides and biocidal coatings **2014**, 332-345		3
16	The effect of the salinity level on conductivity sensor calibration. *EPJ Web of Conferences*, **2014**, 77, 00015	0.3	3
15	Biofouling protection for marine underwater observatories sensors **2009**,		3
14	A biosensor for detection of DNA sequences based on a 50MHz QCM electronic oscillator circuit **2009**,		3
13	Semiconducting Behaviour of Stainless Steel Passive Films in Contact with Artificial Seawater. *Materials Science Forum*, **1998**, 289-292, 887-894	0.4	3
12	How to Control Accessibility to Biosensor Probes?. *Sensor Letters*, **2009**, 7, 952-956	0.9	2
11	Strategy to design DNA-biosensors: Single-stranded probe grafting versus target-probe duplex grafting. *Sensors and Actuators B: Chemical*, **2012**, 171-172, 719-725	8.5	1
10	Towards in situ detection of PAH trace in seawater using SERS-active sensors **2009**,		1

9	Layer-by-Layer DNA film synthesis via branched hybridization. *Irbm*, **2008**, 29, 133-135	4.8	1
8	Effect of 3,5-Dinitrosalicylic Acid on Passivation of Copper during Electrorefining. *Materials Science Forum*, **1992**, 111-112, 329-344	0.4	1
7	What governs marine fouling assemblages on chemically-active antifouling coatings?. *Progress in Organic Coatings*, **2022**, 164, 106701	4.8	1
6	Effect of plasmonic mode on plasmon-based lasers. *Journal of the Optical Society of America B: Optical Physics*, **2018**, 35, 3110	1.7	1
5	Fonctionnalisation de surfaces dTacier inoxydable par des enzymes en vue dTinhiber lTadhSion de bactEies et la formation de biofilms en eau de mer. *Materiaux Et Techniques*, **2006**, 94, 455-465	0.6	1
4	Improving the Sensitivity of the Plasmon-Based Sensor by Asymmetric Nanoarray. *Plasmonics*,1	2.4	0
3	AFM study of the formation of conditioning films on stainless steel in artificial sea water. *Biology of the Cell*, **1999**, 91, 281-281	3.5	
2	Constraints of the Marine Environment23-42		
1	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	3.8	