

Christine Dupont-Gillain

List of Publications by Year in descending order

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66
papers

1,493
citations

279798

23
h-index

361022

35
g-index

69
all docs

69
docs citations

69
times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-by-Layer Nanoarchitectonics Using Protein-Polyelectrolyte Complexes toward a Generalizable Tool for Protein Surface Immobilization. <i>Langmuir</i> , 2022, 38, 5579-5589.	3.5	11
2	Effect of nanoconfinement on the enzymatic activity of bioactive layer-by-layer assemblies in nanopores. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 129059.	4.7	1
3	Confined adsorption within nanopatterns as generic means to drive high adsorption efficiencies on affinity sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131945.	7.8	4
4	Gas Cluster Ion Beams as a Versatile Soft-Landing Tool for the Controlled Construction of Thin (Bio)Films. <i>ACS Applied Bio Materials</i> , 2022, 5, 3180-3192.	4.6	8
5	Hybrid chemoenzymatic heterogeneous catalyst prepared in one step from zeolite nanocrystals and enzyme-polyelectrolyte complexes. <i>Nanoscale Advances</i> , 2021, 3, 1646-1655.	4.6	16
6	Deposition of Intact and Active Proteins In Vacuo Using Large Argon Cluster Ion Beams. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 952-957.	4.6	9
7	Improvement of biomolecular analysis in thin films using <i>in situ</i> matrix enhanced secondary ion mass spectrometry. <i>Analyst</i> , 2021, 146, 6506-6519.	3.5	5
8	Quantifying Analyte Surface Densities and Their Distribution with Respect to Electromagnetic Hot Spots in Plasmon-Enhanced Spectroscopic Biosensors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9866-9874.	3.1	2
9	Embedding Collagen in Multilayers for Enzyme-Assisted Mineralization: A Promising Way to Direct Crystallization in Confinement. <i>Biomacromolecules</i> , 2021, 22, 3460-3473.	5.4	5
10	Unravelling surface changes on Cu-Ni alloy upon immersion in aqueous media simulating catalytic activity of aerobic biofilms. <i>Applied Surface Science</i> , 2020, 503, 144081.	6.1	8
11	Use of a quartz crystal microbalance platform to study protein adsorption on aluminum hydroxide vaccine adjuvants: Focus on phosphate-hydroxide ligand exchanges. <i>International Journal of Pharmaceutics</i> , 2020, 573, 118834.	5.2	3
12	Highly Hydrated Thin Films Obtained via Templating of the Polyelectrolyte Multilayer Internal Structure with Proteins. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2602-2611.	4.4	3
13	Large cluster ions: soft local probes and tools for organic and bio surfaces. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17427-17447.	2.8	29
14	Self-Reorganizing Multilayer to Release Free Proteins from Self-Assemblies. <i>Langmuir</i> , 2020, 36, 972-978.	3.5	7
15	Protein-based polyelectrolyte multilayers. <i>Advances in Colloid and Interface Science</i> , 2020, 280, 102161.	14.7	29
16	Enzyme-assisted mineralization of calcium phosphate: exploring confinement for the design of highly crystalline nano-objects. <i>Nanoscale</i> , 2020, 12, 10051-10064.	5.6	16
17	European bamboo fibres for composites applications, study on the seasonal influence. <i>Industrial Crops and Products</i> , 2019, 133, 304-316.	5.2	26
18	Mixed Polymer Brushes for the Selective Capture and Release of Proteins. <i>Biomacromolecules</i> , 2019, 20, 778-789.	5.4	33

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19	Investigation of the tensile behavior of treated flax fibre bio-composites at ambient humidity. <i>Composites Science and Technology</i> , 2018, 159, 119-126.	7.8	20
20	Reversible Protein Adsorption on Mixed PEO/PAA Polymer Brushes: Role of Ionic Strength and PEO Content. <i>Langmuir</i> , 2018, 34, 3037-3048.	3.5	33
21	Immobilization of Aluminum Hydroxide Particles on Quartz Crystal Microbalance Sensors to Elucidate Antigen-Adjuvant Interaction Mechanisms in Vaccines. <i>Analytical Chemistry</i> , 2018, 90, 1168-1176.	6.5	10
22	Predicting the adhesion strength of thermoplastic/glass interfaces from wetting measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 280-290.	4.7	17
23	Biofunctionalized and self-supported polypyrrole frameworks as nanostructured ECM-like biointerfaces. <i>RSC Advances</i> , 2018, 8, 22932-22943.	3.6	4
24	Sulindac encapsulation and release from functional poly(HEMA) microparticles prepared in supercritical carbon dioxide. <i>International Journal of Pharmaceutics</i> , 2018, 549, 161-168.	5.2	5
25	Antimicrobial peptide encapsulation and sustained release from polymer network particles prepared in supercritical carbon dioxide. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 112-117.	9.4	20
26	Integrating Proteins in Layer-by-Layer Assemblies Independently of their Electrical Charge. <i>ACS Nano</i> , 2018, 12, 8372-8381.	14.6	44
27	NaCl strongly modifies the physicochemical properties of aluminum hydroxide vaccine adjuvants. <i>International Journal of Pharmaceutics</i> , 2017, 517, 226-233.	5.2	11
28	Protein-polyelectrolyte complexes to improve the biological activity of proteins in layer-by-layer assemblies. <i>Nanoscale</i> , 2017, 9, 17186-17192.	5.6	32
29	A photocleavable stabilizer for the preparation of PHEMA nanogels by dispersion polymerization in supercritical carbon dioxide. <i>Polymer Chemistry</i> , 2017, 8, 581-591.	3.9	7
30	Combination of collagen and fibronectin to design biomimetic interfaces: Do these proteins form layer-by-layer assemblies?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 54-64.	5.0	15
31	Effect of humidity during manufacturing on the interfacial strength of non-pre-dried flax fibre/unsaturated polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 209-215.	7.6	40
32	Oxygen plasma surface modification augments poly(L-lactide-co-glycolide) cytocompatibility toward osteoblasts and minimizes immune activation of macrophages. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3965-3977.	4.0	12
33	Fibrin hydrogels to deliver dental stem cells of the apical papilla for regenerative medicine. <i>Regenerative Medicine</i> , 2015, 10, 153-167.	1.7	21
34	Mechanical behaviour and practical adhesion at a bamboo composite interface: Physical adhesion and mechanical interlocking. <i>Composites Science and Technology</i> , 2015, 109, 40-47.	7.8	76
35	In situ quartz crystal microbalance monitoring of the adsorption of polyoxometalate on a polyampholyte polymer matrix. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 24-30.	9.4	7
36	Chitosan-coated electrospun nanofibers with antibacterial activity. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3508-3517.	5.8	42

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37	Minimal amounts of dipalmitoylphosphatidylcholine improve aerosol performance of spray-dried temocillin powders for inhalation. <i>International Journal of Pharmaceutics</i> , 2015, 495, 981-990.	5.2	24
38	Oxidation of laccase for improved cathode biofuel cell performances. <i>Bioelectrochemistry</i> , 2015, 106, 77-87.	4.6	11
39	Dual stimuli-responsive coating designed through layer-by-layer assembly of PAA-b-PNIPAM block copolymers for the control of protein adsorption. <i>Soft Matter</i> , 2015, 11, 8154-8164.	2.7	27
40	Protein adsorption can be reversibly switched on and off on mixed PEO/PAA brushes. <i>Acta Biomaterialia</i> , 2015, 11, 68-79.	8.3	31
41	Polythiolactone-Based Redox-Responsive Layers for the Reversible Release of Functional Molecules. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22457-22466.	8.0	23
42	The type and composition of alginate and hyaluronic-based hydrogels influence the viability of stem cells of the apical papilla. <i>Dental Materials</i> , 2014, 30, e349-e361.	3.5	41
43	Understanding and controlling type I collagen adsorption and assembly at interfaces, and application to cell engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 124, 87-96.	5.0	15
44	Conditioning materials with biomacromolecules: Composition of the adlayer and influence on cleanability. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 158-169.	9.4	12
45	Equilibrium contact angle measurements of natural fibers by an acoustic vibration technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 455, 164-173.	4.7	13
46	Biointerfaces Designed Through Directed Collagen Assembly. <i>Journal of Bionanoscience</i> , 2014, 8, 407-418.	0.4	3
47	Characterisation of protein nanotubes by ToF-SIMS imaging. <i>Surface and Interface Analysis</i> , 2013, 45, 333-337.	1.8	3
48	Understanding the interfacial compatibility and adhesion of natural coir fibre thermoplastic composites. <i>Composites Science and Technology</i> , 2013, 80, 23-30.	7.8	104
49	Effect of physical adhesion on mechanical behaviour of bamboo fibre reinforced thermoplastic composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 418, 7-15.	4.7	64
50	Colloidal lithography using silica particles: Improved particle distribution and tunable wetting properties. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 219-225.	9.4	12
51	Interaction of preosteoblasts with surface-immobilized collagen-based nanotubes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 134-141.	5.0	8
52	Adsorption of a PEO-b-PPO-b-PEO triblock copolymer on metal oxide surfaces with a view to reducing protein adsorption and further biofouling. <i>Biofouling</i> , 2013, 29, 1123-1137.	2.2	14
53	1,5-Hexadiyne-Alkyne Poly(ethylene oxide) as a Versatile Building Block for the Synthesis of Glycoconjugated Graft-Copolymers Suited for Targeted Drug Delivery. <i>Bioconjugate Chemistry</i> , 2012, 23, 1740-1752.	3.6	12
54	Optimization of cryo-FTIR analyses for the study of thin films of a block copolymer (PS-b-PEO). <i>Surface and Interface Analysis</i> , 2012, 44, 175-184.	1.8	10

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55	Interfaces in Natural Fibre Composites: Effect of Surface Energy and Physical Adhesion. <i>Journal of Biobased Materials and Bioenergy</i> , 2012, 6, 456-462.	0.3	6
56	Elaboration of Nanostructured Biointerfaces with Tunable Degree of Coverage by Protein Nanotubes Using Electrophoretic Deposition. <i>Biomacromolecules</i> , 2011, 12, 4104-4111.	5.4	16
57	Self-assembled multilayers based on native or denatured collagen: mechanism and synthesis of size-controlled nanotubes. <i>Soft Matter</i> , 2011, 7, 3337.	2.7	24
58	Wetting behaviour and surface properties of technical bamboo fibres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 89-99.	4.7	94
59	Competitive adsorption of fibrinogen and albumin and blood platelet adhesion on surfaces modified with nanoparticles and/or PEO. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 77, 139-149.	5.0	65
60	Surface spectroscopy of adsorbed proteins: input of data treatment by principal component analysis. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 955-961.	3.6	15
61	Plasma Surface Fluorination of Hydrogel Materials: Coating Stability and <i>in vitro</i> Biocompatibility Testing. <i>Soft Materials</i> , 2010, 8, 164-182.	1.7	3
62	Growth Mechanism of Confined Polyelectrolyte Multilayers in Nanoporous Templates. <i>Langmuir</i> , 2010, 26, 3350-3355.	3.5	51
63	Synthesis of Collagen Nanotubes with Highly Regular Dimensions through Membrane-Templated Layer-by-Layer Assembly. <i>Biomacromolecules</i> , 2009, 10, 1021-1024.	5.4	44
64	An AFM, XPS and wettability study of the surface heterogeneity of PS/PMMA-r-PMAA demixed thin films. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 63-71.	9.4	24
65	Characterization of Insulin Adsorption in the Presence of Albumin by Time-of-Flight Secondary Ion Mass Spectrometry and X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2008, 24, 458-464.	3.5	12
66	Conformation Change of Albumin Adsorbed on Polycarbonate Membranes as Revealed by ToF-SIMS. <i>Langmuir</i> , 2003, 19, 6271-6276.	3.5	80