## Yann Chevolot

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Surface Modification of Titanium with Phosphonic Acid To Improve Bone Bonding:Â Characterization by XPS and ToF-SIMS. Langmuir, 2002, 18, 2582-2589.	3.5	311
2	Microwave Assisted "Click―Chemistry for the Synthesis of Multiple Labeled-Carbohydrate Oligonucleotides on Solid Support. Journal of Organic Chemistry, 2006, 71, 4700-4702.	3.2	188
3	DNA-Based Carbohydrate Biochips: A Platform for Surface Glyco-Engineering. Angewandte Chemie - International Edition, 2007, 46, 2398-2402.	13.8	138
4	Biosensors and Bio-Bar Code Assays Based on Biofunctionalized Magnetic Microbeads. Sensors, 2007, 7, 589-614.	3.8	115
5	Fucosylated Pentaerythrityl Phosphodiester Oligomers (PePOs):  Automated Synthesis of DNA-Based Glycoclusters and Binding to Pseudomonas aeruginosa Lectin (PA-IIL). Bioconjugate Chemistry, 2007, 18, 1637-1643.	3.6	96
6	Cloning and biochemical characterization of the fucanase FcnA: definition of a novel glycoside hydrolase family specific for sulfated fucans. Glycobiology, 2006, 16, 1021-1032.	2.5	95
7	Design of Triazoleâ€Tethered Glycoclusters Exhibiting Three Different Spatial Arrangements and Comparative Study of their Affinities towards PA‣ and RCA 120 by Using a DNAâ€Based Glycoarray. ChemBioChem, 2009, 10, 1369-1378.	2.6	69
8	AFM investigation of Pseudomonas aeruginosa lectin LecA (PA-IL) filaments induced by multivalent glycoclusters. Chemical Communications, 2011, 47, 9483.	4.1	61
9	MARINE-EXPRESS: taking advantage of high throughput cloning and expression strategies for the post-genomic analysis of marine organisms. Microbial Cell Factories, 2010, 9, 45.	4.0	55
10	Complete assignment of 1H and 13C NMR spectra of Gigartina skottsbergii λ-carrageenan using carrabiose oligosaccharides prepared by enzymatic hydrolysis. Carbohydrate Research, 2006, 341, 1859-1869.	2.3	53
11	Synthesis of a Library of Fucosylated Glycoclusters and Determination of their Binding toward Pseudomonas aeruginosa Lectin B (PA-IIL) Using a DNA-Based Carbohydrate Microarray. Bioconjugate Chemistry, 2012, 23, 1534-1547.	3.6	51
12	Direct silanization of zirconia for increased biointegration. Acta Biomaterialia, 2016, 46, 323-335.	8.3	46
13	Oligonucleotide Carbohydrate-Centered Galactosyl Cluster Conjugates Synthesized by Click and Phosphoramidite Chemistries. Bioconjugate Chemistry, 2010, 21, 1520-1529.	3.6	43
14	DNA-directed immobilisation of glycomimetics for glycoarrays application: Comparison with covalent immobilisation, and development of an on-chip IC50 measurement assay. Biosensors and Bioelectronics, 2009, 24, 2515-2521.	10.1	42
15	Carbodiimide/NHS Derivatization of COOH-Terminated SAMs: Activation or Byproduct Formation?. Langmuir, 2014, 30, 4545-4550.	3.5	42
16	pH driven addressing of silicon nanowires onto Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> micro-patterned surfaces. Nanotechnology, 2016, 27, 295602.	2.6	42
17	Low-cost, fast prototyping method of fabrication of the microreactor devices in soda-lime glass. Sensors and Actuators B: Chemical, 2008, 128, 552-559.	7.8	41
18	Improvement of protein immobilization for the elaboration of tumor-associated antigen microarrays: Application to the sensitive and specific detection of tumor markers from breast cancer sera. Biosensors and Bioelectronics, 2013, 40, 385-392.	10.1	41

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19	Synthesis and Characterization of a Photoactivatable Glycoaryldiazirine for Surface Glycoengineering. Bioconjugate Chemistry, 1999, 10, 169-175.	3.6	39
20	Application of microfluidic chip with integrated optics for electrophoretic separations of proteinsâ~†. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 845, 218-225.	2.3	39
21	Structure Binding Relationship of Galactosylated Glycoclusters toward Pseudomonas aeruginosa Lectin LecA Using a DNA-Based Carbohydrate Microarray. Bioconjugate Chemistry, 2014, 25, 379-392.	3.6	36
22	Mannose-centered aromatic galactoclusters inhibit the biofilm formation of Pseudomonas aeruginosa. Organic and Biomolecular Chemistry, 2015, 13, 8433-8444.	2.8	35
23	Synthesis of Homo- and Heterofunctionalized Glycoclusters and Binding to Pseudomonas aeruginosa Lectins PA-IL and PA-IIL. Journal of Organic Chemistry, 2012, 77, 7620-7626.	3.2	34
24	Characterization of Three Amino-Functionalized Surfaces and Evaluation of Antibody Immobilization for the Multiplex Detection of Tumor Markers Involved in Colorectal Cancer. Langmuir, 2013, 29, 1498-1509.	3.5	30
25	Toward the Rational Design of Galactosylated Glycoclusters That Target <i>Pseudomonas aeruginosa</i> Lectin A (LecA): Influence of Linker Arms That Lead to Lowâ€Nanomolar Multivalent Ligands. Chemistry - A European Journal, 2016, 22, 11785-11794.	3.3	29
26	Specific recognition of lectins by oligonucleotide glycoconjugates and sorting on a DNA microarray. Chemical Communications, 2009, , 6795.	4.1	28
27	Quantitative analysis (Kd and IC50) of glycoconjugates interactions with a bacterial lectin on a carbohydrate microarray with DNA Direct Immobilization (DDI). Biosensors and Bioelectronics, 2013, 40, 153-160.	10.1	28
28	The influence of the aromatic aglycon of galactoclusters on the binding of LecA: a case study with O-phenyl, S-phenyl, O-benzyl, S-benzyl, O-biphenyl and O-naphthyl aglycons. Organic and Biomolecular Chemistry, 2014, 12, 9166-9179.	2.8	28
29	DNA glycoclusters and DNA-based carbohydrate microarrays: From design to applications. RSC Advances, 2012, 2, 12043.	3.6	24
30	Importance of topology for glycocluster binding to Pseudomonas aeruginosa and Burkholderia ambifaria bacterial lectins. Organic and Biomolecular Chemistry, 2015, 13, 11244-11254.	2.8	24
31	Second harmonic spectroscopy of ZnO, BiFeO <sub>3</sub> and LiNbO <sub>3</sub> nanocrystals. Optical Materials Express, 2019, 9, 1955.	3.0	24
32	Multiplexed binding determination of seven glycoconjugates for Pseudomonas aeruginosa Lectin I (PA-IL) using a DNA-based carbohydrate microarray. Chemical Communications, 2011, 47, 8826.	4.1	22
33	Design and Synthesis of Galactosylated Bifurcated Ligands with Nanomolar Affinity for Lectin LecA from <i>Pseudomonas aeruginosa</i> . ChemBioChem, 2017, 18, 1036-1047.	2.6	22
34	The anti-adhesive effect of glycoclusters on <i>Pseudomonas aeruginosa</i> bacteria adhesion to epithelial cells studied by AFM single cell force spectroscopy. Nanoscale, 2018, 10, 12771-12778.	5.6	22
35	Impact of Silane Monolayers on the Adsorption of Streptavidin on Silica and Its Subsequent Interactions with Biotin: Molecular Dynamics and Steered Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 6786-6796.	2.6	22
36	Integrated microfluidic–microoptical systems fabricated by dry etching of soda-lime glass. Microelectronic Engineering, 2008, 85, 465-469.	2.4	20

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37	Silanization of silica and glass slides for DNA microarrays by impregnation and gas phase protocols: A comparative study. Materials Science and Engineering C, 2011, 31, 384-390.	7.3	20
38	Engineering and Characterization of Polymer Surfaces for Biomedical Applications. Advances in Polymer Science, 2003, , 1-34.	0.8	20
39	Impact of Ag@SiO2 core-shell nanoparticles on the photoelectric current of plasmonic inverted organic solar cells. Synthetic Metals, 2018, 239, 22-28.	3.9	19
40	Development of miniaturized immunoassay: Influence of surface chemistry and comparison with enzyme-linked immunosorbent assay and Western blot. Analytical Biochemistry, 2010, 400, 10-18.	2.4	18
41	Synthesis of Galactoclusters by Metalâ€Free Thiol "Click Chemistry―and Their Binding Affinities for <i>Pseudomonas aeruginosa</i> Lectin LecA. European Journal of Organic Chemistry, 2014, 2014, 7621-7630.	2.4	17
42	DNA directed immobilization glycocluster array: applications and perspectives. Current Opinion in Chemical Biology, 2014, 18, 46-54.	6.1	16
43	Magnetic and optical properties of Ag@SiO2-FITC-Fe3O4 hybrid nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 182, 92-95.	3.5	16
44	Plasmon-controlled narrower and blue-shifted fluorescence emission in (Au@SiO2)SiC nanohybrids. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	15
45	Cancer biomarkers detection using 3D microstructured protein chip: Implementation of customized multiplex immunoassay. Sensors and Actuators B: Chemical, 2012, 175, 22-28.	7.8	14
46	On the Reaction Pathways and Growth Mechanisms of LiNbO3 Nanocrystals from the Non-Aqueous Solvothermal Alkoxide Route. Nanomaterials, 2021, 11, 154.	4.1	14
47	Measurement of Enzymatic Activity and Specificity of Human and Avian Influenza Neuraminidases from Whole Virus by Glycoarray and MALDIâ€TOF Mass Spectrometry. ChemBioChem, 2011, 12, 2071-2080.	2.6	12
48	Luminescence nanothermometry with alkyl-capped silicon nanoparticles dispersed in nonpolar liquids. Nanoscale Research Letters, 2014, 9, 94.	5.7	12
49	Effects of the Surface Densities of Glycoclusters on the Determination of Their IC <sub>50</sub> and <i>K</i> <sub>d</sub> Value Determination by Using a Microarray. ChemBioChem, 2015, 16, 2329-2336.	2.6	12
50	Anti-heat shock protein autoantibody profiling in breast cancer using customized protein microarray. Analytical and Bioanalytical Chemistry, 2016, 408, 1497-1506.	3.7	12
51	A Scanning Near-Field Optical Microscope Approach to Biomolecule Patterning. Bioconjugate Chemistry, 2001, 12, 332-336.	3.6	11
52	Autoantibodies against heat shock proteins as biomarkers for the diagnosis and prognosis of cancer. Cancer Biomarkers, 2017, 18, 105-116.	1.7	10
53	Fluorescent (Au@SiO2)SiC Nanohybrids: Influence of Gold Nanoparticle Diameter and SiC Nanoparticle Surface Density. Plasmonics, 2013, 8, 85-92.	3.4	9
54	Shape-selective purification of gold nanorods with low aspect ratio using a simple centrifugation method. Gold Bulletin, 2017, 50, 69-76.	2.4	9

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55	Glycoclusters with Additional Functionalities for Binding to the LecA Lectin from <i>Pseudomonas aeruginosa</i> . ChemistrySelect, 2017, 2, 10420-10427.	1.5	9
56	Click chemistry and Oligonucleotides: How a simple reaction can do so much. Nucleic Acids Symposium Series, 2008, 52, 47-48.	0.3	8
57	Use of magnetic field for addressing, grafting onto support and actuating permanent magnetic filaments applied to enhanced biodetection. Journal of Materials Chemistry, 2010, 20, 8266.	6.7	8
58	Fifty nanometer lines patterned into silica using water developable chitosan bioresist and electron beam lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, .	1.2	8
59	Screening of a Library of Oligosaccharides Targeting Lectin LecB of Pseudomonas Aeruginosa and Synthesis of High Affinity Oligoglycoclusters. Molecules, 2018, 23, 3073.	3.8	8
60	Curious Binding Energy Increase between the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein and Angiotensin-Converting Enzyme 2 Adsorbed on a Silane Monolayer from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2021, 125, 11078-11090.	2.6	8
61	Glycoarray by DNA-Directed Immobilization. Methods in Molecular Biology, 2012, 808, 195-219.	0.9	8
62	Oxidized Titanium Tungsten Surface Functionalization by Silane-, Phosphonic Acid-, or Ortho-dihydroxyaryl-Based Organolayers. Langmuir, 2019, 35, 9554-9563.	3.5	7
63	Gold-seeded Lithium Niobate Nanoparticles: Influence of Gold Surface Coverage on Second Harmonic Properties. Nanomaterials, 2021, 11, 950.	4.1	7
64	Chitosan as a Water-Developable 193 nm Photoresist for Green Photolithography. ACS Applied Polymer Materials, 2022, 4, 4508-4519.	4.4	7
65	Polyamidoamine Dendrimers as Crosslinkers for Efficient Electron Transfer between Redox Probes onto Magnetic Nanoparticles. ChemistrySelect, 2018, 3, 2823-2829.	1.5	6
66	X-ray photoelectron spectroscopy investigation and characterisation of plasma polymerised isocyanatoethyl methacrylate. Vacuum, 2002, 68, 161-169.	3.5	5
67	Nanoparticles selectively immobilized onto large arrays of gold micro and nanostructures through surface chemical functionalizations. Journal of Colloid and Interface Science, 2015, 447, 152-158.	9.4	5
68	Quadratic nonlinear optics to assess the morphology of riboflavin doped chitosan for eco-friendly lithography. Optical Materials, 2018, 80, 30-36.	3.6	5
69	A generic surface chemistry for peptide microarrays implementation: Application to the detection of anti-H3 antibody. Biosensors and Bioelectronics, 2010, 26, 1320-1325.	10.1	4
70	Orthogonal chemical functionalization of patterned gold on silica surfaces. Beilstein Journal of Nanotechnology, 2015, 6, 2272-2277.	2.8	4
71	Biofunctionalized Magnetic Micro/Nanoparticles for Biosensing Technologies. , 0, , 169-197.		3
72	Microfluidic extraction and microarray detection of biomarkers from cancer tissue slides. Journal of Micromechanics and Microengineering, 2018, 28, 034004.	2.6	3

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73	Orthogonal chemical functionalization of patterned Au/TiW substrate for selective immobilization of nanoparticles. Nanotechnology, 2019, 30, 325601.	2.6	3
74	Electroactive magnetic nanoparticles under magnetic attraction on a microchip electrochemical device. Journal of Magnetism and Magnetic Materials, 2019, 475, 345-351.	2.3	3
75	NANOTRAPS: Different Approaches for the Precise Placement of Micro and Nano-Objects from a Colloidal Dispersion Onto Nanometric Scale Sites of a Patterned Macroscopic Surface. Journal of Colloid Science and Biotechnology, 2013, 2, 249-262.	0.2	3
76	Sub-micron lines patterning into silica using water developable chitosan bioresist films for eco-friendly positive tone e-beam and UV lithography. , 2018, , .		3
77	Carbohydrates as Recognition Receptors in Biosensing Applications. , 2010, , 275-341.		2
78	X-ray-induced degradation of OEG-terminated SAMs on silica surfaces during XPS characterization. Surface and Interface Analysis, 2015, 47, 719-722.	1.8	2
79	Site-Selective Self-Assembly of Nano-Objects on a Planar Substrate Based on Surface Chemical Functionalization. Advances in Atom and Single Molecule Machines, 2015, , 93-112.	0.0	2
80	New concepts of integrated photonic biosensors based on porous silicon. , 0, , .		1
81	MICRO-FABRICATION PROCESS FOR AN INTEGRATED BIOSENSOR COMPOSED OF A SPR TRANSDUCER COUPLED TO A MICROCALORIMETRIC SENSOR. International Journal of Nanoscience, 2012, 11, 1240010.	0.7	1
82	Deciphering multivalent glycocluster–lectin interactions through AFM characterization of the self-assembled nanostructures. Soft Matter, 2019, 15, 7211-7218.	2.7	1
83	Nonlinear plasmonic nanohybrids as probes for multimodal cell imaging and potential phototherapeutic agents. Biomedical Physics and Engineering Express, 2019, 5, 025039.	1.2	1
84	Orthogonal Chemical Functionalization of Au/SiO <sub>2</sub> /TiW Patterned Substrates. Langmuir, 2020, 36, 14960-14966.	3.5	1
85	Acid deprotection of covalently immobilized peptide probes on glass slides for peptide microarrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2242-6.	0.5	0
86	Cancer Biomarkers Detection using Microstructured Protein Chip: Implementation of Customized Multiplex Immunoassay. Procedia Engineering, 2011, 25, 952-955.	1.2	0
87	Quantification of uPA in breast tumour tissue extracts by microarray immunoassay: Comparison with ELISA technology. Journal of Applied Biomedicine, 2018, 16, 214-220.	1.7	0