

# Thierry Livache

## List of Publications by Year in descending order

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67  
papers

2,374  
citations

186265

28  
h-index

206112

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of a DNA matrix via an electrochemically directed copolymerization of pyrrole and oligonucleotides bearing a pyrrole group. <i>Nucleic Acids Research</i> , 1994, 22, 2915-2921.	14.5	199
2	Polypyrrole DNA Chip on a Silicon Device: Example of Hepatitis C Virus Genotyping. <i>Analytical Biochemistry</i> , 1998, 255, 188-194.	2.4	166
3	Characterization and Optimization of a Real-Time, Parallel, Label-Free, Polypyrrole-Based DNA Sensor by Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2000, 72, 6003-6009.	6.5	155
4	Chemical synthesis of a biologically active natural tRNA with its minor bases. <i>Nucleic Acids Research</i> , 1992, 20, 5159-5166.	14.5	135
5	On-chip microbial culture for the specific detection of very low levels of bacteria. <i>Lab on A Chip</i> , 2013, 13, 4024.	6.0	91
6	Ligands for label-free detection of whole bacteria on biosensors: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 71-79.	11.4	87
7	Triggering the apoptosis of targeted human renal cancer cells by the vibration of anisotropic magnetic particles attached to the cell membrane. <i>Nanoscale</i> , 2015, 7, 15904-15914.	5.6	76
8	A polypyrrole protein microarray for antibody-antigen interaction studies using a label-free detection process. <i>Analytical Biochemistry</i> , 2005, 347, 193-200.	2.4	73
9	Polypyrrole Oligosaccharide Array and Surface Plasmon Resonance Imaging for the Measurement of Glycosaminoglycan Binding Interactions. <i>Analytical Chemistry</i> , 2008, 80, 3476-3482.	6.5	70
10	Polypyrrole based DNA hybridization assays: study of label free detection processes versus fluorescence on microchips. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 32, 687-696.	2.8	68
11	Real-time detection of lymphocytes binding on an antibody chip using SPR imaging. <i>Lab on A Chip</i> , 2007, 7, 1206.	6.0	67
12	Clinically Related Protein-Peptide Interactions Monitored in Real Time on Novel Peptide Chips by Surface Plasmon Resonance Imaging. <i>Clinical Chemistry</i> , 2006, 52, 255-262.	3.2	66
13	Highly-Selective Optoelectronic Nose Based on Surface Plasmon Resonance Imaging for Sensing Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2018, 90, 9879-9887.	6.5	65
14	New Approach to Writing and Simultaneous Reading of Micropatterns: Combining Surface Plasmon Resonance Imaging with Scanning Electrochemical Microscopy (SECM). <i>Langmuir</i> , 2004, 20, 9236-9241.	3.5	60
15	Electroconducting polymers for the construction of DNA or peptide arrays on silicon chips. <i>Biosensors and Bioelectronics</i> , 1998, 13, 629-634.	10.1	59
16	Spatial resolution in prism-based surface plasmon resonance microscopy. <i>Optics Express</i> , 2014, 22, 22771.	3.4	53
17	Solution-Phase vs Surface-Phase Aptamer-Protein Affinity from a Label-Free Kinetic Biosensor. <i>PLoS ONE</i> , 2013, 8, e75419.	2.5	50
18	Electropolymerization as a Versatile Route for Immobilizing Biological Species onto Surfaces. <i>Applied Biochemistry and Biotechnology</i> , 2000, 89, 183-194.	2.9	46

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19	Carbohydrates as New Probes for the Identification of Closely Related <i>Escherichia coli</i> Strains Using Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2015, 87, 1804-1811.	6.5	44
20	Versatile analysis of multiple macromolecular interactions by SPR imaging: application to p53 and DNA interaction. <i>Oncogene</i> , 2004, 23, 5543-5550.	5.9	42
21	Conducting polymers on microelectronic devices as tools for biological analyses. <i>Clinica Chimica Acta</i> , 1998, 278, 171-176.	1.1	40
22	Effects of formamide on the thermal stability of DNA duplexes on biochips. <i>Analytical Biochemistry</i> , 2010, 397, 132-134.	2.4	40
23	TOX4 and its binding partners recognize DNA adducts generated by platinum anticancer drugs. <i>Archives of Biochemistry and Biophysics</i> , 2011, 507, 296-303.	3.0	36
24	Real time monitoring of thrombin interactions with its aptamers: Insights into the sandwich complex formation. <i>Biosensors and Bioelectronics</i> , 2013, 40, 186-192.	10.1	36
25	Biotinylated CdSe/ZnSe nanocrystals for specific fluorescent labeling. <i>Journal of Materials Chemistry</i> , 2004, 14, 2638-2642.	6.7	30
26	Early detection of bacteria using SPR imaging and event counting: experiments with <i>Listeria monocytogenes</i> and <i>Listeria innocua</i> . <i>RSC Advances</i> , 2019, 9, 15554-15560.	3.6	30
27	Individual Blood Cell Capture and 2D Organization on Microarrays. <i>Small</i> , 2009, 5, 1493-1497.	10.0	29
28	DNA-directed capture of primary cells from a complex mixture and controlled orthogonal release monitored by SPR imaging. <i>Biosensors and Bioelectronics</i> , 2012, 33, 10-16.	10.1	28
29	SPR imaging for label-free multiplexed analyses of DNA N-glycosylase interactions with damaged DNA duplexes. <i>Analyst</i> , 2008, 133, 1036.	3.5	27
30	Enhanced Bipolar Electrochemistry at Solid-State Micropores: Demonstration by Wireless Electrochemiluminescence Imaging. <i>Analytical Chemistry</i> , 2019, 91, 8900-8907.	6.5	26
31	Opto-Electronic Nose Coupled to a Silicon Micro Pre-Concentrator Device for Selective Sensing of Flavored Waters. <i>Chemosensors</i> , 2020, 8, 60.	3.6	26
32	Reliable chiral recognition with an optoelectronic nose. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112183.	10.1	25
33	Polarization-Induced Local Pore-Wall Functionalization for Biosensing: From Micropore to Nanopore. <i>Analytical Chemistry</i> , 2012, 84, 3254-3261.	6.5	23
34	Contactless Electrofunctionalization of a Single Pore. <i>Small</i> , 2009, 5, 2297-2303.	10.0	22
35	Effect of Lipid Coating on the Interaction Between Silica Nanoparticles and Membranes. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 519-528.	1.1	21
36	Peptide protein microarrays and surface plasmon resonance detection: Biosensors for versatile biomolecular interaction analysis. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1554-1559.	10.1	20

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37	On chip real time monitoring of B-cells hybridoma secretion of immunoglobulin. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2728-2732.	10.1	19
38	Construction of Hybrid Bilayer Membrane (HBM) Biochips and Characterization of the Cooperative Binding between Cytochrome-c and HBM. <i>Langmuir</i> , 2007, 23, 6835-6842.	3.5	17
39	Highly parallel remote SPR detection of DNA hybridization by micropillar optical arrays. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2249-2259.	3.7	14
40	SPR imaging based electronic tongue via landscape images for complex mixture analysis. <i>Talanta</i> , 2014, 130, 49-54.	5.5	13
41	Opto-electrochemical nanosensor array for remote DNA detection. <i>Analyst, The</i> , 2011, 136, 327-331.	3.5	12
42	Optical Index Prism Sensitivity of Surface Plasmon Resonance Imaging in Gas Phase: Experiment versus Theory. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3756-3767.	3.1	12
43	Temperature scans/cycles for the detection of low abundant DNA point mutations on microarrays. <i>Biosensors and Bioelectronics</i> , 2012, 31, 554-557.	10.1	11
44	Functionalization of optical nanotip arrays with an electrochemical microcantilever for multiplexed DNA detection. <i>Lab on A Chip</i> , 2013, 13, 2956.	6.0	11
45	Photothermal effect for localized desorption of primary lymphocytes arrayed on an antibody/DNA-based biochip. <i>Lab on A Chip</i> , 2014, 14, 1987.	6.0	11
46	Improvement of sensitivity of surface plasmon resonance imaging for the gas-phase detection of volatile organic compounds. <i>Talanta</i> , 2020, 212, 120777.	5.5	11
47	Experimental and Theoretical Investigations on the Adsorption of 2â€-deoxyguanosine Oxidation Products at Oxidized Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2007, 79, 3741-3746.	6.5	10
48	Electrochemical transduction of DNA hybridization at modified electrodes by using an electroactive pyridoacridone intercalator. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1163-1172.	3.7	10
49	Conducting Polymers for DNA Sensors and DNA Chips: from Fabrication to Molecular Detection. <i>Perspectives in Bioanalysis</i> , 2005, 1, 297-330.	0.3	9
50	Selective Individual Primary Cell Capture Using Locally Bio-Functionalized Micropores. <i>PLoS ONE</i> , 2013, 8, e57717.	2.5	9
51	Real-time gas recognition and gas unmixing in robot applications. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129111.	7.8	9
52	In Situ Synthesis and Copolymerization of Oligonucleotides on Conducting Polymers. <i>Mikrochimica Acta</i> , 1999, 131, 3-8.	5.0	7
53	Wireless Enhanced Electrochemiluminescence at a Bipolar Microelectrode in a Solid-State Micropore. <i>Journal of the Electrochemical Society</i> , 2020, 167, 137509.	2.9	7
54	Design and Application of a Microarray for Fluorescence and Surface Plasmon Resonance Imaging Analysis of Peptide-Antibody Interactions. <i>Journal of Biomedical Nanotechnology</i> , 2006, 2, 29-35.	1.1	6

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55	Real-time toxicity testing of silver nanoparticles to Salmonella Enteritidis using surface plasmon resonance imaging: A proof of concept. <i>NanoImpact</i> , 2016, 1, 55-59.	4.5	6
56	Landscapes of Taste by a Novel Electronic Tongue for the Analysis of Complex Mixtures. <i>Sensor Letters</i> , 2014, 12, 1059-1064.	0.4	6
57	Electrochemically Induced Maskless Metal Deposition on Micropore Wall. <i>Small</i> , 2012, 8, 1345-1349.	10.0	5
58	Using a bio-inspired surface resonance plasmon electronic nose for fundamental research on human olfaction. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130846.	7.8	5
59	Discrimination of spoiled beef and salmon stored under different atmospheres by an optoelectronic nose. Comparison with GC-MS measurements. <i>Future Foods</i> , 2022, 5, 100106.	5.4	5
60	Cell specific electrodes for neuronal network reconstruction and monitoring. <i>Analyst</i> , The, 2014, 139, 3281.	3.5	4
61	On the use of aptamer microarrays as a platform for the exploration of human prothrombin/thrombin conversion. <i>Analytical Biochemistry</i> , 2015, 473, 66-71.	2.4	4
62	Enhancing the sensitivity of plasmonic optical fiber sensors by analyzing the distribution of the optical modes intensity. <i>Optics Express</i> , 2020, 28, 28740.	3.4	4
63	Utilisation of a Portable Electronic Nose, NeOse Pro, to Follow the Microbial Fermentation of a Yoghurt. <i>Food and Nutrition Sciences (Print)</i> , 2021, 12, 90-105.	0.4	3
64	Versatile Functionalization of Nanoelectrodes by Oligonucleotides via Pyrrole Electrochemistry. <i>ChemPhysChem</i> , 2010, 11, 3541-3546.	2.1	2
65	Integrating Multi-Functionalities Into Non-Spherical Microparticles Fabricated by Top-Down Approach. <i>Science of Advanced Materials</i> , 2015, 7, 1779-1784.	0.7	1
66	Contactless Bioelectrofunctionalization of Planar Micropores. <i>Advanced Materials Technologies</i> , 2021, 6, 2001154.	5.8	0
67	Surface plasmon resonance imaging of the conversion of clustered DNA lesions into double strand breaks by Fpg protein. <i>AIMS Materials Science</i> , 2015, 2, 473-483.	1.4	0