Jeroen Lammertyn

List of Publications by Citations

63 papers	4,782 citations	33 h-index	64 g-index
64 ext. papers	5,283 ext. citations	7.2 avg, IF	5.13 L-index

#	Paper	IF	Citations
63	Nondestructive measurement of fruit and vegetable quality by means of NIR spectroscopy: A review. *Postharvest Biology and Technology*, **2007**, 46, 99-118	6.2	1380
62	Light penetration properties of NIR radiation in fruit with respect to non-destructive quality assessment. *Postharvest Biology and Technology*, **2000**, 18, 121-132	6.2	222
61	Browning disorders in pear fruit. *Postharvest Biology and Technology*, **2007**, 43, 1-13	6.2	221
60	Postharvest quality of apple predicted by NIR-spectroscopy: Study of the effect of biological variability on spectra and model performance. *Postharvest Biology and Technology*, **2010**, 55, 133-143	6.2	189
59	Fiber optic SPR biosensing of DNA hybridization and DNA-protein interactions. *Biosensors and Bioelectronics*, **2009**, 25, 864-9	11.8	172
58	Electronic nose systems to study shelf life and cultivar effect on tomato aroma profile. *Sensors and Actuators B: Chemical*, **2004**, 97, 324-333	8.5	129
57	An electronic nose and a mass spectrometry-based electronic nose for assessing apple quality during shelf life. *Postharvest Biology and Technology*, **2004**, 31, 9-19	6.2	116
56	Metabolic profiling of Conference pears under low oxygen stress. *Postharvest Biology and Technology*, **2009**, 51, 123-130	6.2	115
55	Prediction of the optimal picking date of different apple cultivars by means of VIS/NIR-spectroscopy. *Postharvest Biology and Technology*, **2001**, 21, 189-199	6.2	111
54	Selection of aptamers against Ara h 1 protein for FO-SPR biosensing of peanut allergens in food matrices. *Biosensors and Bioelectronics*, **2013**, 43, 245-51	11.8	108
53	Climacteric or non-climacteric behavior in melon fruit: 1. Aroma volatiles. *Postharvest Biology and Technology*, **2008**, 49, 27-37	6.2	104
52	Kernel PLS regression on wavelet transformed NIR spectra for prediction of sugar content of apple. *Chemometrics and Intelligent Laboratory Systems*, **2007**, 85, 243-252	3.8	103
51	A versatile electrowetting-based digital microfluidic platform for quantitative homogeneous and heterogeneous bio-assays. *Journal of Micromechanics and Microengineering*, **2011**, 21, 054026	2	100
50	Electronic nose as a non-destructive tool to evaluate the optimal harvest date of apples. *Postharvest Biology and Technology*, **2003**, 30, 3-14	6.2	95
49	The electronic tongue and ATR-FTIR for rapid detection of sugars and acids in tomatoes. *Sensors and Actuators B: Chemical*, **2006**, 116, 107-115	8.5	84
48	Fiber optic-SPR platform for fast and sensitive infliximab detection in serum of inflammatory bowel disease patients. *Biosensors and Bioelectronics*, **2016**, 79, 173-9	11.8	83
47	Selection and characterization of DNA aptamers for egg white lysozyme. *Molecules*, **2010**, 15, 1127-40	4.8	81

46	Analysis of tomato taste using two types of electronic tongues. *Sensors and Actuators B: Chemical*, **2008**, 131, 10-17	8.5	79
45	Analysis of apples varieties comparison of electronic tongue with different analytical techniques. *Sensors and Actuators B: Chemical*, **2006**, 116, 23-28	8.5	76
44	The relationship between gas transport properties and the histology of apple. *Journal of the Science of Food and Agriculture*, **2004**, 84, 1131-1140	4.3	74
43	Microfluidic analytical systems for food analysis. *Trends in Food Science and Technology*, **2011**, 22, 386-404	15.3	72
42	Nanocrystalline diamond impedimetric aptasensor for the label-free detection of human IgE. *Biosensors and Bioelectronics*, **2011**, 26, 2987-93	11.8	70
41	Proteomic analysis of core breakdown disorder in Conference pears (Pyrus communis L.). *Proteomics*, **2007**, 7, 2083-99	4.8	67
40	Logistic regression analysis of factors influencing core breakdown in Conference pears. *Postharvest Biology and Technology*, **2000**, 20, 25-37	6.2	63
39	A continuum model for metabolic gas exchange in pear fruit. *PLoS Computational Biology*, **2008**, 4, e1000023	5	62
38	Calibration transfer between NIR diode array and FT-NIR spectrophotometers for measuring the soluble solids contents of apple. *Postharvest Biology and Technology*, **2007**, 45, 38-45	6.2	48
37	Smart design of fiber optic surfaces for improved plasmonic biosensing. *New Biotechnology*, **2015**, 32, 473-84	6.4	47
36	Ascorbic acid concentration in Cv. conference pears during fruit development and postharvest storage. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 4757-63	5.7	43
35	Three-Dimensional DNA Origami as Programmable Anchoring Points for Bioreceptors in Fiber Optic Surface Plasmon Resonance Biosensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 23539-23547	9.5	36
34	Mapping consumer liking of tomatoes with fast aroma profiling techniques. *Postharvest Biology and Technology*, **2005**, 38, 115-127	6.2	36
33	Improved surface plasmon resonance biosensing using silanized optical fibers. *Sensors and Actuators B: Chemical*, **2015**, 216, 518-526	8.5	35
32	Real-time monitoring of DNA hybridization and melting processes using a fiber optic sensor. *Nanotechnology*, **2012**, 23, 065503	3.4	34
31	Aroma volatiles associated with the senescence of climacteric or non-climacteric melon fruit. *Postharvest Biology and Technology*, **2009**, 52, 146-155	6.2	33
30	Increasing robustness against changes in the interferent structure by incorporating prior information in the augmented classical least-squares framework. *Analytical Chemistry*, **2008**, 80, 4951-9	7.8	33
29	Nucleic acids for ultra-sensitive protein detection. *Sensors*, **2013**, 13, 1353-84	3.8	32

28	Headspace fingerprint mass spectrometry to characterize strawberry aroma at super-atmospheric oxygen conditions. *Postharvest Biology and Technology*, **2007**, 46, 230-236	6.2	29
27	Spherical nucleic acid enhanced FO-SPR DNA melting for detection of mutations in Legionella pneumophila. *Analytical Chemistry*, **2013**, 85, 1734-42	7.8	28
26	Real-time monitoring of solid-phase PCR using fiber-optic SPR. *Small*, **2011**, 7, 1003-6	11	28
25	Label-free Protein Detection Based on the Heat-Transfer Method--A Case Study with the Peanut Allergen Ara h 1 and Aptamer-Based Synthetic Receptors. *ACS Applied Materials & Interfaces*, **2015**, 7, 10316-23	9.5	27
24	Affinity comparison of p3 and p8 peptide displaying bacteriophages using surface plasmon resonance. *Analytical Chemistry*, **2013**, 85, 10075-82	7.8	26
23	Heterobifunctional PEG ligands for bioconjugation reactions on iron oxide nanoparticles. *PLoS ONE*, **2014**, 9, e109475	3.7	26
22	Real-time ligation chain reaction for DNA quantification and identification on the FO-SPR. *Biosensors and Bioelectronics*, **2015**, 67, 394-9	11.8	25
21	Thermal annealing of gold coated fiber optic surfaces for improved plasmonic biosensing. *Sensors and Actuators B: Chemical*, **2016**, 229, 678-685	8.5	24
20	reMelting curve analysis as a tool for enrichment monitoring in the SELEX process. *Analyst, The*, **2014**, 139, 589-95	5	24
19	Fiber-optic high-resolution genetic screening using gold-labeled gene probes. *Small*, **2012**, 8, 868-72	11	24
18	Parts per Million Detection of Alcohol Vapors via Metal Organic Framework Functionalized Surface Plasmon Resonance Sensors. *Analytical Chemistry*, **2017**, 89, 4480-4487	7.8	22
17	PHPostharvest Technology. *Biosystems Engineering*, **2002**, 83, 339-347	4.8	21
16	Real-Time FO-SPR Monitoring of Solid-Phase DNAzyme Cleavage Activity for Cutting-Edge Biosensing. *ACS Applied Materials & Interfaces*, **2019**, 11, 6759-6768	9.5	20
15	Identification and Quantification of Celery Allergens Using Fiber Optic Surface Plasmon Resonance PCR. *Sensors*, **2017**, 17,	3.8	16
14	Solid-Phase PCR-Amplified DNAzyme Activity for Real-Time FO-SPR Detection of the MCR-2 Gene. *Analytical Chemistry*, **2020**, 92, 10783-10791	7.8	13
13	Probing the force-induced dissociation of aptamer-protein complexes. *Analytical Chemistry*, **2014**, 86, 3084-91	7.8	13
12	Characterisation of QMB sensors by means of the BET adsorption isotherm. *Sensors and Actuators B: Chemical*, **2004**, 101, 242-251	8.5	12
11	Expanding a Portfolio of (FO-) SPR Surface Chemistries with the Co(III)-NTA Oriented Immobilization of His-Tagged Bioreceptors for Applications in Complex Matrices. *ACS Sensors*, **2020**, 5, 960-969	9.2	11

10	Encoded particle microfluidic platform for rapid multiplexed screening and characterization of aptamers against influenza A nucleoprotein. *Analytica Chimica Acta*, **2019**, 1053, 70-80	6.6	10
9	Evaluation of different strategies for magnetic particle functionalization with DNA aptamers. *New Biotechnology*, **2016**, 33, 755-762	6.4	9
8	FO-SPR biosensor calibrated with recombinant extracellular vesicles enables specific and sensitive detection directly in complex matrices. *Journal of Extracellular Vesicles*, **2021**, 10, e12059	16.4	6
7	Controlling the Bioreceptor Spatial Distribution at the Nanoscale for Single Molecule Counting in Microwell Arrays. *ACS Sensors*, **2019**, 4, 2327-2335	9.2	5
6	Transferability of antibody pairs from ELISA to fiber optic surface plasmon resonance for infliximab detection **2015**,		3
5	Non-destructive Evaluation **2009**, 421-441		3
4	Measurement Of Beer Taste Attributes Using An Electronic Tongue **2009**,		2
3	Mechanism of Nonpolar Model Substances to Inhibit Primary Gushing Induced by Hydrophobin HFBI. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4673-82	5.7	1
2	Non-Destructive Evaluation **2014**, 363-385		1
1	Primary culture of embryonic rat olfactory receptor neurons. *In Vitro Cellular and Developmental Biology - Animal*, **2012**, 48, 650-9	2.6	