Jana Å½el

List of Publications by Year
in descending order

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64	2,803	147801	182427
papers	citations	31 h-index	51 g-index

64	64	64	2582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative Analysis of Food and Feed Samples with Droplet Digital PCR. PLoS ONE, 2013, 8, e62583.	2.5	238
2	Critical points of DNA quantification by real-time PCR--effects of DNA extraction method and sample matrix on quantification of genetically modified organisms. BMC Biotechnology, 2006, 6, 37.	3.3	183
3	Optimising droplet digital PCR analysis approaches for detection and quantification of bacteria: a case study of fire blight and potato brown rot. Analytical and Bioanalytical Chemistry, 2014, 406, 6513-6528.	3.7	136
4	Comparison of nine different real-time PCR chemistries for qualitative and quantitative applications in GMO detection. Analytical and Bioanalytical Chemistry, 2010, 396, 2023-2029.	3.7	125
5	Multiplex quantification of four DNA targets in one reaction with Bio-Rad droplet digital PCR system for GMO detection. Scientific Reports, 2016, 6, 35451.	3.3	105
6	New approaches in GMO detection. Analytical and Bioanalytical Chemistry, 2010, 396, 1991-2002.	3.7	104
7	Multiplex Quantification of 12 European Union Authorized Genetically Modified Maize Lines with Droplet Digital Polymerase Chain Reaction. Analytical Chemistry, 2015, 87, 8218-8226.	6.5	100
8	PVY^{NTN} elicits a diverse gene expression response in different potato genotypes in the first 12Âh after inoculation. Molecular Plant Pathology, 2009, 10, 263-275.	4.2	97
9	NAIMA: target amplification strategy allowing quantitative on-chip detection of GMOs. Nucleic Acids Research, 2008, 36, e118-e118.	14.5	78
10	Jasmonic acid stimulates shoot and bulb formation of garlic in vitro. Journal of Plant Growth Regulation, 1993, 12, 73-77.	5.1	70
11	Assessment of the real-time PCR and different digital PCR platforms for DNA quantification. Analytical and Bioanalytical Chemistry, 2016, 408, 107-121.	3.7	68
12	Loop-Mediated Isothermal Amplification: Rapid Visual and Real-Time Methods for Detection of Genetically Modified Crops. Journal of Agricultural and Food Chemistry, 2013, 61, 11338-11346.	5.2	65
13	Droplet volume variability as a critical factor for accuracy of absolute quantification using droplet digital PCR. Analytical and Bioanalytical Chemistry, 2017, 409, 6689-6697.	3.7	65
14	Digital PCR as an effective tool for GMO quantification in complex matrices. Food Chemistry, 2019, 294, 73-78.	8.2	59
15	Development and Validation of Duplex, Triplex, and Pentaplex Real-Time PCR Screening Assays for the Detection of Genetically Modified Organisms in Food and Feed. Journal of Agricultural and Food Chemistry, 2013, 61, 10293-10301.	5.2	58
16	Alternative DNA amplification methods to PCR and their application in GMO detection: a review. European Food Research and Technology, 2008, 227, 1287-1297.	3.3	57
17	Comparison of different real-time PCR chemistries and their suitability for detection and quantification of genetically modified organisms. BMC Biotechnology, 2008, 8, 26.	3.3	55
18	GMO quantification: valuable experience and insights for the future. Analytical and Bioanalytical Chemistry, 2014, 406, 6485-6497.	3.7	54

#	Article	IF	Citations
19	Detection of Rare Drug Resistance Mutations by Digital PCR in a Human Influenza A Virus Model System and Clinical Samples. Journal of Clinical Microbiology, 2016, 54, 392-400.	3.9	52
20	Method Validation and Quality Management in the Flexible Scope of Accreditation: An Example of Laboratories Testing for Genetically Modified Organisms. Food Analytical Methods, 2008, 1, 61-72.	2.6	50
21	Detection of nonauthorized genetically modified organisms using differential quantitative polymerase chain reaction: application to 35S in maize. Analytical Biochemistry, 2008, 376, 189-199.	2.4	44
22	Detection of genetically modified organismsâ€"closing the gaps. Nature Biotechnology, 2009, 27, 700-701.	17.5	43
23	Application of whole genome shotgun sequencing for detection and characterization of genetically modified organisms and derived products. Analytical and Bioanalytical Chemistry, 2016, 408, 4595-4614.	3.7	43
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#	Article	IF	Citations
37	Real-Time Polymerase Chain Reaction Detection of Cauliflower mosaic virus to Complement the 35S Screening Assay for Genetically Modified Organisms. Journal of AOAC INTERNATIONAL, 2005, 88, 814-822.	1.5	28
38	GMOtrack: Generator of Cost-Effective GMO Testing Strategies. Journal of AOAC INTERNATIONAL, 2009, 92, 1739-1746.	1.5	27
39	Inhibition of the Growth of Colorado Potato Beetle Larvae by Macrocypins, Protease Inhibitors from the Parasol Mushroom. Journal of Agricultural and Food Chemistry, 2013, 61, 12499-12509.	5.2	26
40	Thermotherapy in virus elimination from garlic: influences on shoot multiplication from meristems and bulb formation in vitro. Scientia Horticulturae, 1998, 73, 193-202.	3.6	25
41	Jasmonic acid promotes division of fern protoplasts, elongation of rhizoids and early development of gametophytes. Physiologia Plantarum, 1996, 97, 659-664.	5.2	24
42	How to Reliably Test for GMOs. , 2012, , .		24
43	Detection of processed genetically modified food using CIM monolithic columns for DNA isolation. Journal of Chromatography A, 2005, 1065, 107-113.	3.7	19
44	Involvement of Potato (Solanum tuberosum L.) MKK6 in Response to Potato virus Y. PLoS ONE, 2014, 9, e104553.	2.5	18
45	GMOseek: a user friendly tool for optimized GMO testing. BMC Bioinformatics, 2014, 15, 258.	2.6	18
46	The effect of jasmonic acid, sucrose and darkness on garlic (Allium sativum L. cv. Ptujski jesenski) bulb formation in vitro. In Vitro Cellular and Developmental Biology - Plant, 1997, 33, 231-235.	2.1	17
47	Multiplex Droplet Digital PCR Protocols for Quantification of GM Maize Events. Methods in Molecular Biology, 2018, 1768, 69-98.	0.9	17
48	Knowledge-technology-based discovery of unauthorized genetically modified organisms. Analytical and Bioanalytical Chemistry, 2010, 396, 1951-1959.	3.7	16
49	ALF: a strategy for identification of unauthorized GMOs in complex mixtures by a GW-NGS method and dedicated bioinformatics analysis. Scientific Reports, 2017, 7, 14155.	3.3	16
50	Accreditation of GMO detection laboratories: Improving the reliability of GMO detection. Accreditation and Quality Assurance, 2006, 10, 531-536.	0.8	15
51	Influence of aluminum on the membranes of mycorrhizal fungi. Water, Air, and Soil Pollution, 1993, 71, 101-109.	2.4	14
52	The effect of aluminum on cytokinins in the mycelia of Amanita muscaria. Journal of Plant Growth Regulation, 1995, 14, 117-120.	5.1	14
53	Effects of aluminum on mineral content of mycorrhizal fungi in vitro. Water, Air, and Soil Pollution, 1993, 71, 271-279.	2.4	12
54	Jasmonic Acid Stimulates Development of Rhizoids and Shoots in Fern Leaf Culture. Journal of Plant Physiology, 1999, 155, 798-801.	3.5	11

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55	Inter-laboratory analysis of selected genetically modified plant reference materials with digital PCR. Analytical and Bioanalytical Chemistry, 2018, 410, 211-221.	3.7	11
56	The effect of aluminium on the cytokinins in the mycelia of Lactarius piperatus. Plant Science, 1994, 97, 137-142.	3.6	10
57	Solanum venturii, a suitable model system for virus-induced gene silencing studies in potato reveals StMKK6 as an important player in plant immunity. Plant Methods, 2016, 12, 29.	4.3	10
58	In vitro aluminum effects on ectomycorrizal fungi. Water, Air, and Soil Pollution, 1992, 63, 145-153.	2.4	8
59	GMOtrack: generator of cost-effective GMO testing strategies. Journal of AOAC INTERNATIONAL, 2009, 92, 1739-46.	1.5	7
60	How to Reliably Test for GMOs. , 2012, , 1-95.		6
61	Yew (Taxus x media Rehd.) cell suspension cultures as a source of taxanes. Acta Physiologiae Plantarum, 2006, 28, 3-8.	2.1	3
62	Decision Support for the Comparative Evaluation and Selection of Analytical Methods: Detection of Genetically Modified Organisms as an Example. Food Analytical Methods, 2018, 11, 2105-2122.	2.6	2
63	Estimating the plasma membrane permeability of Taxus x media cells with the spin probe TEMPOL by EPR. Plant Science, 2005, 168, 535-540.	3.6	1
64	Nucleic-acid analysis in new fields of metrology. , 2015, , .		1