Andras Szekacs

List of Publications by Year
in descending order

124	2,488	218662	265191
papers	citations	26 h-index	42 g-index

125	125	125	2873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological and metabolic alterations induced by commercial neonicotinoid formulations in Daphnia magna. Ecotoxicology, 2022, 31, 415-424.	2.4	8
2	Herbivorous Juvenile Grass Carp (Ctenopharyngodon idella) Fed with Genetically Modified MON 810 and DAS-59122 Maize Varieties Containing Cry Toxins: Intestinal Histological, Developmental, and Immunological Investigations. Toxins, 2022, 14, 153.	3.4	0
3	Potential Risk of Pollen from Genetically Modified MON 810 Maize Containing Cry1Ab Toxin to Protected Lepidopteran Larvae in the Pannonian Biogeographical Regionâ€"A Retrospective View. Insects, 2022, 13, 206.	2.2	1
4	Cytotoxic effects of Roundup Classic and its components on NE-4C and MC3T3-E1 cell lines determined by biochemical and flow cytometric assays. Toxicology Reports, 2022, 9, 914-926.	3.3	8
5	Effects of Combined Application of Solid Pyrolysis Products and Digestate on Selected Soil Properties of Arenosol and Plant Growth and Composition in Laboratory Experiments. Agronomy, 2022, 12, 1440.	3.0	3
6	Herbicides: Brief history, agricultural use, and potential alternatives for weed control. , 2021, , 1-20.		2
7	An Optical Planar Waveguide-Based Immunosensors for Determination of Fusarium Mycotoxin Zearalenone. Toxins, 2021, 13, 89.	3.4	15
8	Direct and Competitive Optical Grating Immunosensors for Determination of Fusarium Mycotoxin Zearalenone. Toxins, 2021, 13, 43.	3.4	10
9	Development of an Immunofluorescence Assay Module for Determination of the Mycotoxin Zearalenone in Water. Toxins, 2021, 13, 182.	3.4	10
10	Effects of glyphosate-based herbicides and their active ingredients on earthworms, water infiltration and glyphosate leaching are influenced by soil properties. Environmental Sciences Europe, 2021, 33, .	5.5	24
11	Biosensors for Deoxynivalenol and Zearalenone Determination in Feed Quality Control. Toxins, 2021, 13, 499.	3.4	11
12	Editorial: RNAi Based Pesticides. Frontiers in Plant Science, 2021, 12, 714116.	3.6	5
13	Mycotoxins as Emerging Contaminants. Introduction to the Special Issue â€œRapid Detection of Mycotoxin Contaminationâ€. Toxins, 2021, 13, 475.	3.4	6
14	Herbicide mode of action. , 2021, , 41-86.		7
15	3-Amidinophenylalanine-derived matriptase inhibitors can modulate hepcidin production in vitro. Naunyn-Schmiedeberg's Archives of Pharmacology, 2020, 393, 511-520.	3.0	2
16	Aflatoxin B1 and Sterigmatocystin Binding Potential of Lactobacilli. Toxins, 2020, 12, 756.	3.4	10
17	Aflatoxin B1 and Sterigmatocystin Binding Potential of Non-Lactobacillus LAB Strains. Toxins, 2020, 12, 799.	3.4	6
18	Appearance of Thiacloprid in the Guttation Liquid of Coated Maize Seeds. International Journal of Environmental Research and Public Health, 2020, 17, 3290.	2.6	2

#	Article	IF	Citations
19	Summary of Discussions From the 2019 OECD Conference on RNAi Based Pesticides. Frontiers in Plant Science, 2020, 11, 740.	3.6	19
20	Neonicotinoids: Spreading, Translocation and Aquatic Toxicity. International Journal of Environmental Research and Public Health, 2020, 17, 2006.	2.6	30
21	Commercial glyphosate-based herbicides effects on springtails (Collembola) differ from those of their respective active ingredients and vary with soil organic matter content. Environmental Science and Pollution Research, 2020, 27, 17280-17289.	5.3	13
22	Environmental Analytical and Ecotoxicological Aspects of Bt Maize in the Pannonian Biogeographical Region of the European Union. Topics in Biodiversity and Conservation, 2020, , 149-172.	1.0	0
23	[INVITED] Novel optical biosensing technologies for detection of mycotoxins. Optics and Laser Technology, 2019, 109, 212-221.	4.6	25
24	Highly sensitive label-free in vitro detection of aflatoxin B1 in an aptamer assay using optical planar waveguide operating as a polarization interferometer. Analytical and Bioanalytical Chemistry, 2019, 411, 7717-7724.	3.7	13
25	Tumor-Associated Disialylated Glycosphingolipid Antigen-Revealing Antibodies Found in Melanoma Patients' Immunoglobulin Repertoire Suggest a Two-Direction Regulation Mechanism Between Immune B Cells and the Tumor. Frontiers in Immunology, 2019, 10, 650.	4.8	3
26	Aquatic toxicity and loss of linear alkylbenzenesulfonates alone and in a neonicotinoid insecticide formulation in surface water. Science of the Total Environment, 2019, 652, 780-787.	8.0	11
27	Contamination of the guttation liquid of two common weeds with neonicotinoids from coated maize seeds planted in close proximity. Science of the Total Environment, 2019, 649, 1137-1143.	8.0	11
28	Sensitive fluorescence instrumentation for water quality assessment. , 2019, , .		0
29	Label-free optical biosensor for real-time monitoring the cytotoxicity of xenobiotics: A proof of principle study on glyphosate. Journal of Hazardous Materials, 2018, 351, 80-89.	12.4	31
30	Detection of ochratoxin A in aptamer assay using total internal reflection ellipsometry. Sensors and Actuators B: Chemical, 2018, 263, 248-251.	7.8	34
31	Radiolysis of sulfonamide antibiotics in aqueous solution: Degradation efficiency and assessment of antibacterial activity, toxicity and biodegradability of products. Science of the Total Environment, 2018, 622-623, 1009-1015.	8.0	28
32	The effect of intensive chemical plant protection on the quality of spice paprika. Journal of Food Composition and Analysis, 2018, 67, 141-148.	3.9	5
33	The effect of different decontamination methods on the microbial load, bioactive components, aroma and colour of spice paprika. Food Control, 2018, 83, 131-140.	5.5	50
34	Chemical characteristics of spice paprika of different origins. Food Control, 2018, 83, 54-60.	5.5	22
35	Investigation of regional differences of the dominant microflora of spice paprika by molecular methods. Food Control, 2018, 83, 109-117.	5.5	8
36	Network and vulnerability analysis of international spice trade. Food Control, 2018, 83, 141-146.	5.5	7

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37	Environmental and food safety of spices and herbs along global food chains. Food Control, 2018, 83, 1-6.	5.5	40
38	National seasoning practices and factors affecting the herb and spice consumption habits in Europe. Food Control, 2018, 83, 147-156.	5.5	10
39	The impact of H 2 O 2 and the role of mineralization in biodegradation or ecotoxicity assessment of advanced oxidation processes. Radiation Physics and Chemistry, 2018, 144, 361-366.	2.8	19
40	Integrin targeting of glyphosate and its cell adhesion modulation effects on osteoblastic MC3T3-E1 cells revealed by label-free optical biosensing. Scientific Reports, 2018, 8, 17401.	3.3	23
41	Neonicotinoid insecticides are potential substrates of the multixenobiotic resistance (MXR) mechanism in the non-target invertebrate, Dreissena sp.. Aquatic Toxicology, 2018, 205, 148-155.	4.0	14
42	Editorial: Digital Transformation of Animal Health Data: Proceedings of the AHEAD 2017 Workshop. Frontiers in Veterinary Science, 2018, 5, 111.	2.2	1
43	Mycotoxin Biosensor Based on Optical Planar Waveguide. Toxins, 2018, 10, 272.	3.4	11
44	Label-Free Optical Detection of Mycotoxins Using Specific Aptamers Immobilized on Gold Nanostructures. Toxins, 2018, 10, 291.	3.4	22
45	Re-registration Challenges of Glyphosate in the European Union. Frontiers in Environmental Science, 2018, 6, .	3.3	81
46	Environmental and Ecological Aspects in the Overall Assessment of Bioeconomy. Journal of Agricultural and Environmental Ethics, 2017, 30, 153-170.	1.7	51
47	Effects of neonicotinoid insecticide formulations and their components on Daphnia magna â€“ the role of active ingredients and co-formulants. International Journal of Environmental Analytical Chemistry, 2017, 97, 885-900.	3.3	26
48	Dissipation of the herbicide active ingredient glyphosate in natural water samples in the presence of biofilms. International Journal of Environmental Analytical Chemistry, 2017, 97, 901-921.	3.3	32
49	Development of immunosensors based on optical waveguide lightmode spectroscopy (OWLS) technique for determining active substance in herbs. Sensors and Actuators B: Chemical, 2017, 239, 413-420.	7.8	7
50	Inhibitory effects of four neonicotinoid active ingredients on acetylcholine esterase activity. Acta Biologica Hungarica, 2017, 68, 345-357.	0.7	23
51	LSPR/TIRE bio-sensing platform for detection of low molecular weight toxins. , 2017, , .		4
52	Authorization and Toxicity of Veterinary Drugs and Plant Protection Products: Residues of the Active Ingredients in Food and Feed and Toxicity Problems Related to Adjuvants. Frontiers in Veterinary Science, 2017, 4, 146.	2.2	21
53	Determination of Mycotoxin Production of Fusarium Species in Genetically Modified Maize Varieties by Quantitative Flow Immunocytometry. Toxins, 2017, 9, 70.	3.4	13
54	Evanescent field effectâ€“based nanobiosensors for agro-environmental and food safety. , 2017, , 429-474.		7

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55	Occurrence of neonicotinoids in guttation liquid of maize â€“ soil mobility and cross-contamination. International Journal of Environmental Analytical Chemistry, 2017, 97, 868-884.	3.3	5
56	Mechanism-related Teratogenic, Hormone Modulant and other Toxicological effects of Veterinary and agricultural surfactants. , 2017, 1, 024-031.		5
57	OWLS Based Nanosensors for Agro-Environmental and Food Safety. Journal of Advanced Agricultural Technologies, 2017, 4, 335-339.	0.2	1
58	Research directions in plant protection chemistry. Ecocycles, 2017, 3, 4-12.	0.5	1
59	Study on Soil Mobility of Two Neonicotinoid Insecticides. Journal of Chemistry, 2016, 2016, 1-9.	1.9	35
60	Reinforced Epithelial Barrier Integrity via Matriptase Induction with Sphingosine-1-Phosphate Did Not Result in Disturbances in Physiological Redox Status. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-7.	4.0	6
61	Co-Formulants in Glyphosate-Based Herbicides Disrupt Aromatase Activity in Human Cells below Toxic Levels. International Journal of Environmental Research and Public Health, 2016, 13, 264.	2.6	150
62	Optical waveguide lightmode spectroscopy technique-based immunosensor development for aflatoxin B1 determination in spice paprika samples. Food Chemistry, 2016, 211, 972-977.	8.2	26
63	Label-Free Optical Biosensors for Monitoring Cellular Processes and Cytotoxic Agents at Interfaces Using Guided Modes and Advanced Phase-Contrast Imaging Techniques. Advanced Sciences and Technologies for Security Applications, 2016, , 443-468.	0.5	3
64	New technologies in agricultural biotechnology. Ecocycles, 2016, 2, .	0.5	2
65	Monitoring Pesticide Residues in Surface and Ground Water in Hungary: Surveys in 1990â€“2015. Journal of Chemistry, 2015, 2015, 1-15.	1.9	113
66	No scientific consensus on GMO safety. Environmental Sciences Europe, 2015, 27, .	5.5	119
67	Label-free immunosensor for monitoring vitellogenin as a biomarker for exogenous oestrogen compounds in amphibian species. International Journal of Environmental Analytical Chemistry, 2015, 95, 481-493.	3.3	10
68	Changes in the Distribution of Type II Transmembrane Serine Protease, TMPRSS2 and in Paracellular Permeability in IPEC-J2 Cells Exposed to Oxidative Stress. Inflammation, 2015, 38, 775-783.	3.8	17
69	Neonicotinoid insecticides inhibit cholinergic neurotransmission in a molluscan (Lymnaea stagnalis) nervous system. Aquatic Toxicology, 2015, 167, 172-179.	4.0	43
70	Enhancing recombinant protein solubility with ubiquitin-like small archeal modifying protein fusion partners. Journal of Microbiological Methods, 2015, 118, 113-122.	1.6	3
71	Internal quality control of an enzyme-linked immunoassay for Cry1Ab toxin detection applied in animal tissues. Acta Alimentaria, 2015, 44, 593-600.	0.7	2
72	Determination of histamine content in vegetable juices by using direct and competitive immunosensors. Food and Agricultural Immunology, 2014, 25, 20-33.	1.4	4

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73	Cytotoxicity on human cells of Cry1Ab and Cry1Ac Bt insecticidal toxins alone or with a glyphosateâ€based herbicide. Journal of Applied Toxicology, 2013, 33, 695-699.	2.8	54
74	Extraction of Mycotoxins from Aqueous Solutions Using Functionalized Polyelectrolyte-Coated Microparticles. BioNanoScience, 2013, 3, 79-84.	3.5	4
75	Optical waveguide lightmode spectroscopy immunosensor for detection of carp vitellogenin. Sensors and Actuators B: Chemical, 2013, 176, 932-939.	7.8	14
76	Determination of glyphosate residues in Hungarian water samples by immunoassay. Microchemical Journal, 2013, 107, 143-151.	4.5	93
77	Survival and development of a storedâ€product pest, Sitophilus zeamais (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	10
78	Comparative Aspects of Cry Toxin Usage in Insect Control. , 2013, , 195-230.		17
79	Environmental Risk of Chemical Agriculture. Progress in Environmental Science, Technology and Management, 2013, , .	0.1	0
80	Inter-laboratory comparison of Cry1Ab toxin quantification inMON 810maize by enzyme-immunoassay. Food and Agricultural Immunology, 2012, 23, 99-121.	1.4	23
81	Monitoring of herbicide effect in maize based on electrical measurements. International Agrophysics, 2012, 26, 243-247.	1.7	11
82	A framework for a European network for a systematic environmental impact assessment of genetically modified organisms (GMO). BioRisk, 2012, 7, 73-97.	0.2	9
83	Aquatic effect duration study of Cry4 toxin with immunoassay andAedes aegyptilarval biotest. Aquatic Insects, 2012, 34, 207-222.	0.9	5
84	Comparison of the legal regulations of pesticides and hazardous chemicals in the European Union with emphasis on genotoxic and endocrine disrupting effects. Acta Phytopathologica Et Entomologica Hungarica, 2012, 47, 251-274.	0.2	1
85	Analytical difficulties and certain biological aspects of Cry1Ab toxin determination inMON 810genetically modified maize. Acta Phytopathologica Et Entomologica Hungarica, 2012, 47, 293-306.	0.2	5
86	Environmental assessment ofMON 810maize in the pannonian biogeographical region. Acta Phytopathologica Et Entomologica Hungarica, 2012, 47, 307-319.	0.2	4
87	Relationships of Helicoverpa armigera, Ostrinia nubilalis and Fusarium verticillioides on MON 810 Maize. Insects, 2011, 2, 1-11.	2.2	14
88	Effects of Consumption of Bt-maize (MON 810) on the Collembolan Folsomia candida, Over Multiple Generations: A Laboratory Study. Insects, 2011, 2, 243-252.	2.2	18
89	Optical waveguide lightmode spectroscopy techniqueâ€“based immunosensor development for deoxynivalenol determination in wheat samples. European Food Research and Technology, 2011, 233, 1041-1047.	3.3	16
90	Detection of low molecular weight toxins using an optical phase method of ellipsometry. Sensors and Actuators B: Chemical, 2011, 154, 232-237.	7.8	36

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91	Purification of substances contaminated with mycotoxins using functionalyzed microparticles. , 2011, , .		0
92	Detection of Cry1Ab toxin in the leaves of MON 810 transgenic maize. Analytical and Bioanalytical Chemistry, 2010, 396, 2203-2211.	3.7	36
93	Novel derivatisation technique for the determination of chlorophenoxy acid type herbicides by gas chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2010, 397, 537-548.	3.7	23
94	Cry1Ab toxin production of MON 810 transgenic maize. Environmental Toxicology and Chemistry, 2010, 29, 182-190.	4.3	62
95	Detection of low molecular weight toxins using optical phase detection techniques. Procedia Chemistry, 2009, 1, 1491-1494.	0.7	14
96	Optical waveguide light-mode spectroscopy immunosensors for environmental monitoring. Applied Optics, 2009, 48, B151.	2.1	41
97	Optical Waveguide Lightmode Spectroscopy (OWLS) Immunosensors for Environmental Monitoring. , 2008, , .		1
98	Monitoring water-polluting pesticides in Hungary. Microchemical Journal, 2007, 85, 88-97.	4.5	67
99	Preference tests with collembolas onÂisogenic andÂBt-maize. European Journal of Soil Biology, 2006, 42, S132-S135.	3.2	38
100	Optimization and validation of an enzyme immunoassay for the insect growth regulator fenoxycarb. Analytica Chimica Acta, 2003, 487, 15-29.	5.4	18
101	Development of a non-labeled immunosensor for the herbicide trifluralin via optical waveguide lightmode spectroscopic detection. Analytica Chimica Acta, 2003, 487, 31-42.	5.4	48
102	Evaluation of an enzyme immunoassay for the detection of the insect growth regulator fenoxycarb in environmental and biological samples. Pest Management Science, 2003, 59, 410-416.	3.4	10
103	Development of an Enzyme-Linked Immunosorbent Assay (ELISA) for the Herbicide Propanil. International Journal of Environmental Analytical Chemistry, 2002, 82, 865-878.	3.3	5
104	An Enzyme-Linked Immunosorbent Assay (Elisa) for the Detection of Acetochlor. International Journal of Environmental Analytical Chemistry, 2002, 82, 879-891.	3.3	9
105	Fenoxycarb levels and their effects on general and juvenile hormone esterase activity in the hemolymph of the silkworm, Bombyx mori. Pesticide Biochemistry and Physiology, 2002, 73, 174-187.	3.6	8
106	Synthesis of Haptens and Protein Conjugates for the Development of Immunoassays for the Insect Growth Regulator Fenoxycarb. Journal of Agricultural and Food Chemistry, 2002, 50, 29-40.	5.2	33
107	Development of an enzyme-linked immunosorbent assay (ELISA) for the herbicide trifluralin. Analytica Chimica Acta, 2000, 421, 121-133.	5.4	22
108	Immunoassays for plant cytokinins as tools for the assessment of environmental stress and disease resistance. Analytica Chimica Acta, 2000, 421, 135-146.	5.4	23

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109	Progesterone inPeriplaneta americanaandNeobellieria bullataAdults from the Procuticle Phase until First Progeny Production. General and Comparative Endocrinology, 1997, 107, 450-460.	1.8	13
110	Detection of atrazine in hungary by immunoanalytical (ELISA) method. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 1996, 31, 459-464.	1.5	0
111	ELISA for the detection of the triazole fungicide myclobutanil.. Journal of Agricultural and Food Chemistry, 1995, 43, 2083-2091.	5.2	22
112	Characterization of a spectrophotometric assay for juvenile hormone esterase. Insect Biochemistry and Molecular Biology, 1995, 25, 119-126.	2.7	17
113	Hydrolysis of carbonates, thiocarbonates, carbamates, and carboxylic esters of alpha-naphthol, beta-naphthol, and p-nitrophenol by human, rat, and mouse liver carboxylesterases. Pharmaceutical Research, 1993, 10, 639-648.	3.5	78
114	Affinity chromatography of neuropathy target esterase. Chemico-Biological Interactions, 1993, 87, 347-360.	4.0	10
115	An affinity-amplified immunoassay for juvenile hormone esterase. Analytical Biochemistry, 1992, 207, 291-297.	2.4	2
116	Immunochemical approach to the detection of aminotriazoles using selective amino group protection by chromophores. Journal of Agricultural and Food Chemistry, 1991, 39, 129-136.	5.2	19
117	Heterocyclic derivatives of 3-substituted-1,1,1-trifluoro-2-propanones as inhibitors of esterolytic enzymes. Chemical Research in Toxicology, 1990, 3, 325-332.	3.3	14
118	Characterization of neuropathy target esterase using trifluoromethyl ketones. Biochemical Pharmacology, 1990, 40, 2587-2596.	4.4	29
119	Immunochemical Technology in Environmental Analysis. ACS Symposium Series, 1989, , 112-139.	0.5	15
120	New trifluoropropanone sulfides as highly active and selective inhibitors of insect juvenile hormone esterase. Pesticide Biochemistry and Physiology, 1989, 33, 112-124.	3.6	19
121	Quantitative Structureâ€"Activity Relationship Study of Aromatic Trifluoromethyl Ketones. ACS Symposium Series, 1989, , 169-182.	0.5	2
122	Inhibition of Juvenile Hormone Esterase by Transition-State Analogs. ACS Symposium Series, 1988, , 215-227.	0.5	6
123	Forty Years with Glyphosate. , 0, , .		59
124	Quality Management in Spice Paprika Production: From Cultivation to End Product. , 0, , .		1