Maria Augustyniak

List of Publications by Year
in descending order

78	1,392	279798	414414
papers	citations	23 h-index	32 g-index

81	81	81	1222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Profiles of enzymatic activity in earthworms from zinc, lead and cadmium polluted areas near Olkusz (Poland). Environment International, 2004, 30, 901-910.	10.0	116
2	Relations between metals (Zn, Pb, Cd and Cu) and glutathione-dependent detoxifying enzymes in spiders from a heavy metal pollution gradient. Environmental Pollution, 2004, 132, 453-461.	7.5	75
3	The Comet assay in insectsâ€"Status, prospects and benefits for science. Mutation Research - Reviews in Mutation Research, 2016, 767, 67-76.	5.5	52
4	Evaluation of in vivo graphene oxide toxicity for Acheta domesticus in relation to nanomaterial purity and time passed from the exposure. Journal of Hazardous Materials, 2016, 305, 30-40.	12.4	48
5	ESR study of spin relaxation in graphene. Chemical Physics Letters, 2013, 557, 118-122.	2.6	45
6	Short-term in vivo exposure to graphene oxide can cause damage to the gut and testis. Journal of Hazardous Materials, 2017, 328, 80-89.	12.4	36
7	Functional analysis of metals distribution in organs of the beetle Chrysolina pardalina exposed to excess of nickel by Micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 343-348.	1.4	35
8	Zinc-induced DNA damage and the distribution of metals in the brain of grasshoppers by the comet assay and micro-PIXE. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 144, 242-251.	2.6	32
9	Micro-PIXE in ecophysiology. X-Ray Spectrometry, 2005, 34, 285-289.	1.4	31
10	DNA damage in grasshoppersâ€™ larvae â€“ Comet assay in environmental approach. Chemosphere, 2014, 96, 180-187.	8.2	31
11	Chapter 16 Body burden with metals and detoxifying abilities of the grasshopper â€" Chorthippus brunneus (Thunberg) from industrially polluted areas. Trace Metals in the Environment, 2000, 4, 423-454.	0.2	30
12	Activity of glutathione S-transferase in Spodoptera exigua larvae exposed to cadmium and zinc in two subsequent generations. Environment International, 2003, 28, 683-686.	10.0	30
13	EPR evidence of antiferromagnetic ordering in singleâ€layer graphene. Physica Status Solidi - Rapid Research Letters, 2011, 5, 271-273.	2.4	29
14	Oxidative stress and genotoxic effects of diamond nanoparticles. Environmental Research, 2016, 148, 264-272.	7.5	28
15	Ultrastructure of the gut epithelium in Acheta domesticus after long-term exposure to nanodiamonds supplied with food. Arthropod Structure and Development, 2016, 45, 253-264.	1.4	28
16	Chronic toxicity of nanodiamonds can disturb development and reproduction of Acheta domesticus L. Environmental Research, 2018, 166, 602-609.	7.5	28
17	Reduced fecundity and cellular changes in Acheta domesticus after multigenerational exposure to graphene oxide nanoparticles in food. Science of the Total Environment, 2018, 635, 947-955.	8.0	27
18	Does the grasshopper Chorthippus brunneus adapt to metal polluted habitats? A study of glutathioneâ€dependent enzymes in grasshopper nymphs. Insect Science, 2009, 16, 33-42.	3.0	25

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19	Reproduction and development of Spodoptera exigua from cadmium and control strains under differentiated cadmium stress. Ecotoxicology and Environmental Safety, 2018, 166, 138-145.	6.0	25
20	Graphene oxide as a new anthropogenic stress factor - multigenerational study at the molecular, cellular, individual and population level of Acheta domesticus. Journal of Hazardous Materials, 2020, 396, 122775.	12.4	25
21	Effects of zinc and female aging on nymphal life history in a grasshopper from polluted sites. Journal of Insect Physiology, 2008, 54, 41-50.	2.0	24
22	Phenotypic Plasticity, Epigenetic or Genetic Modifications in Relation to the Duration of Cd-Exposure within a Microevolution Time Range in the Beet Armyworm. PLoS ONE, 2016, 11, e0167371.	2.5	24
23	Slow spin relaxation of paramagnetic centers in graphene oxide. Carbon, 2019, 152, 98-105.	10.3	24
24	Elemental microanalysis in ecophysiology using ion microbeam. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 57-66.	1.4	23
25	Localization of conduction electrons in hydrothermally reduced graphene oxide: electron paramagnetic resonance studies. Carbon, 2020, 168, 665-672.	10.3	23
26	Molecular changes in vitellogenin gene of Spodoptera exigua after long-time exposure to cadmium â€“ Toxic side effect or microevolution?. Ecotoxicology and Environmental Safety, 2018, 147, 461-470.	6.0	21
27	Micro-PIXE studies of elemental distribution in sap-feeding insects associated with Ni hyperaccumulator, Berkheya coddii. Plant and Soil, 2007, 293, 197-207.	3.7	20
28	Cross tolerance in beet armyworm: long-term selection by cadmium broadens tolerance to other stressors. Ecotoxicology, 2017, 26, 1408-1418.	2.4	20
29	Identification of a Slowly Relaxing Paramagnetic Center in Graphene Oxide. Applied Magnetic Resonance, 2019, 50, 761-768.	1.2	19
30	DNA damage in Spodoptera exigua after multigenerational cadmium exposure - A trade-off between genome stability and adaptation. Science of the Total Environment, 2020, 745, 141048.	8.0	18
31	Joint effects of dimethoate and heavy metals on metabolic responses in a grasshopper (Chorthippus) Tj ETQq1 1 0.784314 rgBT /Ove Toxicology and Pharmacology, 2005, 141, 412-419.	2.6	17
32	Hsp70 level in progeny of aging grasshoppers from variously polluted habitats and additionally exposed to zinc during diapause. Journal of Insect Physiology, 2009, 55, 735-741.	2.0	17
33	Microevolution or wide tolerance? Level of stress proteins in the beet armyworm Spodoptera eqigua hÃ¼bner (Lepidoptera: Noctuidae) exposed to cadmium for over 150 generations. Ecotoxicology and Environmental Safety, 2019, 178, 1-8.	6.0	17
34	Evaluation of oxidative stress biomarkers in Aiolopus thalassinus (Orthoptera: Acrididae) collected from areas polluted by the fertilizer industry. Ecotoxicology, 2017, 26, 340-350.	2.4	16
35	Evaluation of Candidate Reference Genes for Quantitative Gene Expression Analysis in Spodoptera exigu a after Long-time Exposure to Cadmium. Scientific Reports, 2017, 7, 8338.	3.3	16
36	DNA damage in grasshopper Chorthippus brunneus (Orthoptera) hatchlings following paraquat exposure. Chemosphere, 2015, 125, 212-219.	8.2	15

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37	Effects of short-term exposure of Acheta domesticus to nanodiamonds in food: DNA damage but no histological alteration in tissues. Carbon, 2016, 110, 458-468.	10.3	15
38	Heavy Metals, Resting Metabolism Rates and Breeding Parameters in Two Populations of Black-Headed GullLarus ridibundusfrom the Industrially Polluted Areas of Upper Silesia, Poland. Acta Ornithologica, 2000, 35, 159-172.	0.5	14
39	Microâ€PIXE studies of Niâ€elimination strategies in representatives of two families of beetles feeding on Niâ€hyperaccumulating plant Berkheya coddii. X-Ray Spectrometry, 2011, 40, 194-197.	1.4	14
40	Antioxidant enzyme activity in responses to environmentally induced oxidative stress in the 5th instar nymphs of Aiolopus thalassinus (Orthoptera: Acrididae). Environmental Science and Pollution Research, 2019, 26, 3823-3833.	5.3	14
41	Vitellogenin expression, DNA damage, health status of cells and catalase activity in Acheta domesticus selected according to their longevity after graphene oxide treatment. Science of the Total Environment, 2020, 737, 140274.	8.0	14
42	The level of DNA damage in adult grasshoppers Chorthippus biguttulus (Orthoptera, Acrididae) following dimethoate exposure is dependent on the insectsâ€™ habitat. Environmental Pollution, 2016, 215, 266-272.	7.5	13
43	Biomonitoring of genotoxicity of industrial fertilizer pollutants in Aiolopus thalassinus (Orthoptera: Acrididae) using alkaline comet assay. Chemosphere, 2017, 182, 762-770.	8.2	13
44	Immune response of juvenile common carp (Cyprinus carpio L.) exposed to a mixture of sewage chemicals. Fish and Shellfish Immunology, 2019, 88, 17-27.	3.6	13
45	Oxidative stress parameters, DNA damage and expression of HSP70 and MT in midgut of Trachyderma hispida (ForskÃ¥l, 1775) (Coleoptera: Tenebrionidae) from a textile industry area. Environmental Pollution, 2020, 267, 115661.	7.5	13
46	Short-term effects of dimethoate on metabolic responses in Chrysolina pardalina (Chrysomelidae) feeding on Berkheya coddii (Asteraceae), a hyper-accumulator of nickel. Environmental Pollution, 2007, 150, 218-224.	7.5	12
47	Nuclear microprobe studies of grasshopper feeding on nickel hyperaccumulating plants. X-Ray Spectrometry, 2008, 37, 142-145.	1.4	12
48	Lifespan differences between queens and workers are not explained by rates of molecular damage. Experimental Gerontology, 2017, 92, 1-6.	2.8	12
49	The Structureâ€“Propertiesâ€“Cytotoxicity Interplay: A Crucial Pathway to Determining Graphene Oxide Biocompatibility. International Journal of Molecular Sciences, 2021, 22, 5401.	4.1	11
50	Genotoxic effects of starvation and dimethoate in haemocytes and midgut gland cells of wolf spider Xerolycosa nemoralis (Lycosidae). Environmental Pollution, 2016, 213, 370-378.	7.5	10
51	Do nanoparticles cause hormesis? Early physiological compensatory response in house crickets to a dietary admixture of GO, Ag, and GOAg composite. Science of the Total Environment, 2021, 788, 147801.	8.0	10
52	Long-term Effect of Ileal Transposition on Adipokine Serum Level in Zucker (Orl)-Lepr fa Fatty Rats. Obesity Surgery, 2015, 25, 1848-1857.	2.1	9
53	Autophagy: a necessary defense against extreme cadmium intoxication in a multigenerational 2D experiment. Scientific Reports, 2020, 10, 21141.	3.3	9
54	Stage-, sex- and tissue-related changes in H2O2, glutathione concentration, and glutathione-dependent enzymes activity in Aiolopus thalassinus (Orthoptera: Acrididae) from heavy metal polluted areas. Ecotoxicology, 2021, 30, 478-491.	2.4	9

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55	Oxidative stress in newly-hatched Chorthippus brunneusâ€"the effects of zinc treatment during diapause, depending on the female's age and its origins. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 154, 172-179.	2.6	8
56	Alteration of carbohydrates metabolism and midgut glucose absorption inGromphadorhina portentosaafter subchronic exposure to imidacloprid and fenitrothion. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1644-1651.	1.7	7
57	Protective role of zinc in Spodoptera exigua larvae under 135-generational cadmium exposure. Chemosphere, 2019, 235, 785-793.	8.2	7
58	Time-delayed effects of a single application of AgNPs on structure of testes and functions in Blaps polychresta Forskal, 1775 (Coleoptera: Tenebrionidae). Science of the Total Environment, 2022, 806, 150644.	8.0	7
59	Multigenerational graphene oxide intoxication results in reproduction disorders at the molecular level of vitellogenin protein expression in Acheta domesticus. Chemosphere, 2021, 280, 130772.	8.2	7
60	Nickel toxicity in the hepatopancreas of an isopod Porcellio scaber (Oniscidea). Nuclear Instruments & Methods in Physics Research B, 2007, 260, 213-217.	1.4	6
61	Elemental Distribution in Reproductive and Neural Organs of the Epilachna nylanderi (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo micro-PIXE. Journal of Insect Science, 2014, 14, 152.	1.5	6
62	Multigenerational selection towards longevity changes the protective role of vitamin C against graphene oxide-induced oxidative stress in house crickets. Environmental Pollution, 2021, 290, 117996.	7.5	6
63	Energy reserves, oxidative stress and development traits of Spodoptera exigua HÃ¼bner individuals from cadmium strain. Environmental Pollution, 2021, 268, 115366.	7.5	5
64	Caffeine effects on AdoR mRNA expression in Drosophila melanogaster. Open Life Sciences, 2016, 11, 244-249.	1.4	4
65	Electron Spin Echo Studies of Hydrothermally Reduced Graphene Oxide. Journal of Physical Chemistry C, 2021, 125, 4102-4109.	3.1	4
66	Reduced body length and morphological disorders in Chrysomya albiceps (Diptera: Calliphoridae) larvae reared on aluminum phosphide-treated rabbits. Scientific Reports, 2022, 12, 8358.	3.3	4
67	Adhesion abilities and biosorption of Cd and Mg by microorganisms - first step for eco-friendly beneficiation of phosphate ore. Scientific Reports, 2019, 9, 12929.	3.3	3
68	Does age pay off? Effects of three-generational experiments of nanodiamond exposure and withdrawal in wild and longevity-selected model animals. Chemosphere, 2022, 303, 135129.	8.2	3
69	Nickel toxicity in the hindgut of an isopod Porcellio scaber (Oniscidea). Nuclear Instruments & Methods in Physics Research B, 2007, 260, 222-226.	1.4	2
70	Ileal transposition in rats influenced glucose metabolism and HSP70 levels. Open Life Sciences, 2014, 10, .	1.4	2
71	Cydalima perspectalis in Polandâ€"8 Years of Invasion against the Background of Three Other Invasive Species. Diversity, 2022, 14, 22.	1.7	2
72	Effects of female aging and metal pollution on glutathione-dependent enzymes in Chorthippus brunneus nymphs. Toxicology Letters, 2006, 164, S153-S154.	0.8	1

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73	Glutathione-dependent enzymes in grasshopper Nymphs after zinc treatment. Toxicology Letters, 2007, 172, S155-S156.	0.8	1
74	GSH-dependent enzymes and heavy metals mapping in grasshopper associated with Nickel hyperaccumulators. Toxicology Letters, 2006, 164, S154.	0.8	0
75	The effects of female age and heavy metals on DNA damage in grasshopper brains. Toxicology Letters, 2006, 164, S154-S155.	0.8	0
76	Native Bacteria from Djebel Onk Mine (Algeria) Exhibit Selective Adhesion onto Phosphate Ore. Environmental Science and Engineering, 2021, , 735-739.	0.2	0
77	Mg and Cd Biosorption by Native Bacteria From Djebel Onk Mine (Algeria). Environmental Science and Engineering, 2021, , 835-839.	0.2	0
78	Eight Years of Cydalima perspectalis in Polandâ€”From the First Finding to the Status of Invasive Species ^{â€}. , 0, , .		0