David Sheehan

List of Publications by Year
in descending order

119 papers	5,850 citations	126858 33 h-index	76872 74 g-index
123 all docs	123 docs citations	123 times ranked	6396 citing authors

#	Article	IF	Citations
1	Zinc oxide, titanium dioxide and C60 fullerene nanoparticles, alone and in mixture, differently affect biomarker responses and proteome in the clam Ruditapes philippinarum. Science of the Total Environment, 2022, 838, 155873.	3.9	7
2	Shotgun proteomics for the preliminary identification of biomarkers of beef sensory tenderness, juiciness and chewiness from plasma and muscle of young Limousin-sired bulls. Meat Science, 2021, 176, 108488.	2.7	25
3	Novel static magnetic field effects on green chemistry biosynthesis of silver nanoparticles in Saccharomyces cerevisiae. Scientific Reports, 2021, 11, 20078.	1.6	14
4	The clinical potential of thiol redox proteomics. Expert Review of Proteomics, 2020, 17, 41-48.	1.3	6
5	Assessment of RNAlaterÂ® as a Potential Method to Preserve Bovine Muscle Proteins Compared with Dry Ice in a Proteomic Study. Foods, 2019, 8, 60.	1.9	9
6	Ecotoxicoproteomics: A decade of progress in our understanding of anthropogenic impact on the environment. Journal of Proteomics, 2019, 198, 66-77.	1.2	66
7	Biochemical and biomolecular effects induced by a static magnetic field in Saccharomyces cerevisiae: Evidence for oxidative stress. PLoS ONE, 2019, 14, e0209843.	1.1	17
8	Transcriptome signatures of p,pÂ´-DDE-induced liver damage in Mus spretus mice. Environmental Pollution, 2018, 238, 150-167.	3.7	12
9	Protective role of exogenous phytohormones on redox status in pea seedlings under copper stress. Journal of Plant Physiology, 2018, 221, 51-61.	1.6	37
10	Role of endocytotic uptake routes in impacting the ROS-related toxicity of silver nanoparticles to Mytilus galloprovincialis: A redox proteomic investigation. Aquatic Toxicology, 2018, 200, 21-27.	1.9	27
11	Redox proteomic insights into involvement of clathrin-mediated endocytosis in silver nanoparticles toxicity to Mytilus galloprovincialis. PLoS ONE, 2018, 13, e0205765.	1.1	13
12	Gold Octahedra nanoparticles (Au_0.03 and Au_0.045): Synthesis and impact on marine clams Ruditapes decussatus. Aquatic Toxicology, 2018, 202, 97-104.	1.9	10
13	Effects of Gold Nanoparticles on the Mediterranean Clams Ruditapes decussatus: Chemical and Biochemical Investigations. Advances in Science, Technology and Innovation, 2018, , 577-580.	0.2	0
14	The effects of anthracene on biochemical responses of Mediterranean mussels <i>Mytilus galloprovincialis</i>. Chemistry and Ecology, 2017, 33, 309-324.	0.6	11
15	Toxicity assessment of ZnO-decorated Au nanoparticles in the Mediterranean clam Ruditapes decussatus. Aquatic Toxicology, 2017, 188, 10-19.	1.9	21
16	Fast Protein Liquid Chromatography. Methods in Molecular Biology, 2017, 1485, 365-373.	0.4	11
17	Redox biology response in germinating Phaseolus vulgaris seeds exposed to copper: Evidence for differential redox buffering in seedlings and cotyledon. PLoS ONE, 2017, 12, e0184396.	1.1	14
18	Redox Remodeling Is Pivotal in Murine Diaphragm Muscle Adaptation to Chronic Sustained Hypoxia. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 12-23.	1.4	25

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19	Proteomic analysis of an environmental isolate of Rhodotorula mucilaginosa after arsenic and cadmium challenge: Identification of a protein expression signature for heavy metal exposure. Journal of Proteomics, 2016, 141, 47-56.	1.2	19
20	Early life exposure to chronic intermittent hypoxia causes upper airway dilator muscle weakness, which persists into young adulthood. Experimental Physiology, 2015, 100, 947-966.	0.9	15
21	Chronic sustained hypoxia-induced redox remodeling causes contractile dysfunction in mouse sternohyoid muscle. Frontiers in Physiology, 2015, 6, 122.	1.3	21
22	Chronic intermittent hypoxia increases rat sternohyoid muscle NADPH oxidase expression with attendant modest oxidative stress. Frontiers in Physiology, 2015, 6, 15.	1.3	21
23	Effects of anthracene on filtration rates, antioxidant defense system, and redox proteomics in the Mediterranean clam Ruditapes decussatus (Mollusca: Bivalvia). Environmental Science and Pollution Research, 2015, 22, 10956-10968.	2.7	18
24	Neutral red retention time assay in determination of toxicity ofÂnanoparticles. Marine Environmental Research, 2015, 111, 158-161.	1.1	21
25	Redox proteomic analysis of <i>mytilus edulis</i> gills: effects of the pharmaceutical diclofenac on a nonâ€target organism. Drug Testing and Analysis, 2015, 7, 957-966.	1.6	11
26	Effects of 2-(4-Methoxyphenyl)-5, 6-trimethylene-4H-1, 3, 2-oxathiaphosphorine-2-sulfide on biomarkers of Mediterranean clams Ruditapes decussatus. Ecotoxicology and Environmental Safety, 2015, 120, 263-269.	2.9	6
27	Application of a redoxâ€proteomics toolbox to <i>Daphnia magna</i> challenged with model proâ€oxidants copper and paraquat. Environmental Toxicology and Chemistry, 2015, 34, 84-91.	2.2	7
28	Effect of permethrin, anthracene and mixture exposure on shell components, enzymatic activities and proteins status in the Mediterranean clam Venerupis decussata. Aquatic Toxicology, 2015, 158, 22-32.	1.9	32
29	Identification of an elongation factor 1BÎ³ protein with glutathione transferase activity in both yeast and mycelial morphologies from human pathogenic Blastoschizomyces capitatus. Folia Microbiologica, 2014, 59, 107-113.	1.1	2
30	Gills are an initial target of zinc oxide nanoparticles in oysters Crassostrea gigas, leading to mitochondrial disruption and oxidative stress. Aquatic Toxicology, 2014, 153, 27-38.	1.9	84
31	Toxicity of copper oxide nanoparticles in the blue mussel, Mytilus edulis: A redox proteomic investigation. Chemosphere, 2014, 108, 289-299.	4.2	98
32	Proteomic evaluation of citrate-coated silver nanoparticles toxicity in Daphnia magna. Analyst, The, 2014, 139, 1678-1686.	1.7	51
33	Effects of permethrin exposure on antioxidant enzymes and protein status in Mediterranean clams Ruditapes decussatus. Environmental Science and Pollution Research, 2014, 21, 4461-4472.	2.7	17
34	Role of the ubiquitin-proteasome pathway and some peptidases during seed germination and copper stress in bean cotyledons. Plant Physiology and Biochemistry, 2014, 76, 77-85.	2.8	30
35	Proteomic responses to metal-induced oxidative stress in hydrothermal vent-living mussels, Bathymodiolus sp., on the Southwest Indian Ridge. Marine Environmental Research, 2014, 96, 29-37.	1.1	8
36	Redox Proteomics Changes in the Fungal Pathogen Trichosporon asahii on Arsenic Exposure: Identification of Protein Responses to Metal-Induced Oxidative Stress in an Environmentally-Sampled Isolate. PLoS ONE, 2014, 9, e102340.	1.1	18

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37	A redox proteomic investigation of oxidative stress caused by benzoylecgonine in the freshwater bivalve <i>Dreissena polymorpha</i>. Drug Testing and Analysis, 2013, 5, 646-656.	1.6	27
38	Gold Nanoparticles and Oxidative Stress in the Blue Mussel, Mytilus edulis. Methods in Molecular Biology, 2013, 1028, 197-203.	0.4	4
39	Environmental OMICS: Current Status and Future Directions. Journal of Integrated OMICS, 2013, 3, .	0.5	22
40	Timeâ€dependent muscleâ€specific protein oxidation in a mouse model of chronic hypoxia. FASEB Journal, 2013, 27, 719.2.	0.2	0
41	Application of iTRAQ Reagents to Relatively Quantify the Reversible Redox State of Cysteine Residues. International Journal of Proteomics, 2012, 2012, 1-9.	2.0	17
42	Comparison of thiol subproteome of the vent mussel Bathymodiolus azoricus from different Mid-Atlantic Ridge vent sites. Science of the Total Environment, 2012, 437, 413-421.	3.9	10
43	Redox Proteomics in Study of Kidney-Associated Hypertension: New Insights to Old Diseases. Antioxidants and Redox Signaling, 2012, 17, 1560-1570.	2.5	7
44	Protein thiols as novel biomarkers in ecotoxicology: A case study of oxidative stress in Mytilus edulis sampled near a former industrial site in Cork Harbour, Ireland. Journal of Integrated OMICS, 2012, 2, .	0.5	0
45	Ultrasound-assisted generation of ACE-inhibitory peptides from casein hydrolyzed with nanoencapsulated protease. Journal of the Science of Food and Agriculture, 2011, 91, 2112-2116.	1.7	23
46	Proteomics in investigation of protein nitration in kidney disease: Technical challenges and perspectives from the spontaneously hypertensive rat. Mass Spectrometry Reviews, 2011, 30, 121-141.	2.8	13
47	Online homology modelling as a means of bridging the sequence-structure gap. Bioengineered Bugs, 2011, 2, 299-305.	2.0	10
48	Ubiquitination and carbonylation of proteins in the clam Ruditapes decussatus, exposed to nonylphenol using redox proteomics. Chemosphere, 2010, 81, 1212-1217.	4.2	19
49	Selection of thiol- and disulfide-containing proteins of Escherichia coli on activated thiol-Sepharose. Analytical Biochemistry, 2010, 398, 245-253.	1.1	26
50	Exposure of the blue mussel, Mytilus edulis, to gold nanoparticles and the pro-oxidant menadione. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 151, 167-174.	1.3	57
51	Proteomic Profiling of Perturbed Protein Sulfenation in Renal Medulla of the Spontaneously Hypertensive Rat. Journal of Proteome Research, 2010, 9, 2678-2687.	1.8	28
52	Ion-Transfer Voltammetric Behavior of Protein Digests at Liquid|Liquid Interfaces. Analytical Chemistry, 2010, 82, 258-264.	3.2	26
53	Shotgun redox proteomics in sub-proteomes trapped on functionalised beads: Identification of proteins targeted by oxidative stress. Marine Environmental Research, 2010, 69, S25-S27.	1.1	10
54	Enhanced thermal and ultrasonic stability of a fungal protease encapsulated within biomimetically generated silicate nanospheres. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 459-465.	1.1	15

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55	Covalent selection of the thiol proteome on activated thiol sepharose: A robust tool for redox proteomics. Talanta, 2010, 80, 1569-1575.	2.9	17
56	Oxidative stress and toxicity of gold nanoparticles in Mytilus edulis. Aquatic Toxicology, 2010, 100, 178-186.	1.9	264
57	Redox proteomics. Expert Review of Proteomics, 2010, 7, 1-4.	1.3	40
58	Nanomaterials as Emerging Environmental Threats. Current Chemical Biology, 2010, 4, 151-160.	0.2	8
59	Response surface optimization of an artificial neural network for predicting the size of re-assembled casein micelles. Computers and Electronics in Agriculture, 2009, 68, 216-221.	3.7	39
60	Comparison of pH-dependent sonodisruption of re-assembled casein micelles by 35 and 130kHz ultrasounds. Journal of Food Engineering, 2009, 95, 505-509.	2.7	40
61	Protein carbonylation in kidney medulla of the spontaneously hypertensive rat. Proteomics - Clinical Applications, 2009, 3, 338-346.	0.8	19
62	Alkaline pH does not disrupt re-assembled casein micelles. Food Chemistry, 2009, 116, 929-932.	4.2	43
63	Sonodisruption of re-assembled casein micelles at different pH values. Ultrasonics Sonochemistry, 2009, 16, 644-648.	3.8	70
64	Ubiquitination and carbonylation as markers of oxidative-stress in Ruditapes decussatus. Marine Environmental Research, 2008, 66, 95-97.	1.1	32
65	The Potential of Proteomics for Providing New Insights into Environmental Impacts on Human Health. Reviews on Environmental Health, 2007, 22, 175-94.	1.1	18
66	Oxidative stress in response to xenobiotics in the blue mussel Mytilus edulis L.: Evidence for variation along a natural salinity gradient of the Baltic Sea. Aquatic Toxicology, 2007, 82, 63-71.	1.9	55
67	Hepatic biomarkers of sediment-associated pollution in juvenile turbot, Scophthalmus maximus L.. Marine Environmental Research, 2007, 64, 191-208.	1.1	42
68	Effect of oxidative stress on protein thiols in the blue mussel <i>Mytilus edulis</i>: Proteomic identification of target proteins. Proteomics, 2007, 7, 3395-3403.	1.3	56
69	Proteomic identification of tyrosine nitration targets in kidney of spontaneously hypertensive rats. Proteomics, 2007, 7, 4555-4564.	1.3	39
70	Redox Proteomics â€“ A Route to the Identifi cation of Damaged Proteins. NATO Science for Peace and Security Series C: Environmental Security, 2007, , 295-308.	0.1	1
71	Protein carbonylation and heat shock response in Ruditapes decussatus following p,pâ€²-dichlorodiphenyldichloroethylene (DDE) exposure: A proteomic approach reveals that DDE causes oxidative stress. Aquatic Toxicology, 2006, 77, 11-18.	1.9	77
72	Redox proteomics in the blue mussel Mytilus edulis: Carbonylation is not a pre-requisite for ubiquitination in acute free radical-mediated oxidative stress. Aquatic Toxicology, 2006, 79, 325-333.	1.9	65

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73	Detection of redox-based modification in two-dimensional electrophoresis proteomic separations. Biochemical and Biophysical Research Communications, 2006, 349, 455-462.	1.0	64
74	Cellular responses in primary epidermal cultures from rainbow trout exposed to zinc chloride. Ecotoxicology and Environmental Safety, 2006, 65, 332-341.	2.9	23
75	Proteomics as a route to identification of toxicity targets in environmental toxicology. Proteomics, 2006, 6, 5597-5604.	1.3	129
76	Chemical modification at subunit 1 of rat kidney Alpha class glutathione transferase with 2,3,5,6-tetrachloro-1,4-benzoquinone: Close structural connectivity between glutathione conjugation activity and non-substrate ligand binding. Biochemical Pharmacology, 2006, 71, 1629-1636.	2.0	3
77	A Two-Species Biomarker Model for the Assessment of Sediment Toxicity in the Marine and Estuarine Environment Using the Comet Assay. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 939-953.	0.9	15
78	Glutathione transferase-like proteins encoded in genomes of yeasts and fungi: insights into evolution of a multifunctional protein superfamily. FEMS Microbiology Letters, 2005, 242, 1-12.	0.7	81
79	The 110kDa glutathione transferase of Yarrowia lipolytica is encoded by a homologue of the TEF3 gene from Saccharomyces cerevisiae: Cloning, expression, and homology modeling of the recombinant protein. Biochemical and Biophysical Research Communications, 2005, 337, 1125-1132.	1.0	3
80	Identification of a multixenobiotic resistance mechanism in primary cultured epidermal cells from Oncorhynchus mykiss and the effects of environmental complex mixtures on its activity. Aquatic Toxicology, 2005, 73, 115-127.	1.9	17
81	Carbonylation and glutathionylation of proteins in the blue mussel Mytilus edulis detected by proteomic analysis and Western blotting: Actin as a target for oxidative stress. Aquatic Toxicology, 2005, 73, 315-326.	1.9	114
82	Fast Protein Liquid Chromatography. , 2004, 244, 253-258.		4
83	Redox Modulation of Integrin Î±IIbÎ²3 Involves a Novel Allosteric Regulation of Its Thiol Isomerase Activity. Biochemistry, 2004, 43, 473-480.	1.2	35
84	Variability of heat shock proteins and glutathione S-transferase in gill and digestive gland of blue mussel, Mytilus edulis. Marine Environmental Research, 2003, 56, 585-597.	1.1	41
85	Antioxidative effect of added tea catechins on susceptibility of cooked red meat, poultry and fish patties to lipid oxidation. Food Research International, 2001, 34, 651-657.	2.9	168
86	Structure, function and evolution of glutathione transferases: implications for classification of non-mammalian members of an ancient enzyme superfamily. Biochemical Journal, 2001, 360, 1.	1.7	950
87	A comparative study of tea catechins and Î±-tocopherol as antioxidants in cooked beef and chicken meat. European Food Research and Technology, 2001, 213, 286-289.	1.6	40
88	Anti-oxidant activity of added tea catechins on lipid oxidation of raw minced red meat, poultry and fish muscle. International Journal of Food Science and Technology, 2001, 36, 685-692.	1.3	126
89	Purification and some characteristics of a recombinant dimeric rhizobium meliloti Î²-galactosidase expressed in escherichia coli. Enzyme and Microbial Technology, 2001, 28, 682-688.	1.6	7
90	Purification and characterisation of acetolactate decarboxylase fromLeuconostoc lactisNCW1. FEMS Microbiology Letters, 2001, 194, 245-249.	0.7	12

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91	Structure, function and evolution of glutathione transferases: implications for classification of non-mammalian members of an ancient enzyme superfamily. Biochemical Journal, 2001, 360, 1-16.	1.7	1,449
92	Characterization of recombinant acetolactate synthase from Leuconostoc lactis NCW1. Enzyme and Microbial Technology, 1999, 25, 61-67.	1.6	8
93	Variable expression of glutathioneS-transferase isoenzymes in the fungus,Mucor circinelloides. FEMS Microbiology Letters, 1999, 170, 13-17.	0.7	21
94	Effects of seasonality on xenobiotic and antioxidant defence mechanisms of bivalve molluscs. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1999, 123, 193-199.	0.5	121
95	A modification of the hanging drop method of protein crystallisation suitable for an undergraduate class practical. Biochemical Education, 1998, 26, 173-175.	0.1	2
96	Design of Emulsification Peptides. Advances in Food and Nutrition Research, 1998, 42, 93-129.	1.5	2
97	Glutathione S-transferases of the yeast Yarrowia lipolytica have unusually large molecular mass. Biochemical Journal, 1998, 333, 839-845.	1.7	17
98	Assessment of a glutathione S-transferase and related proteins in the gill and digestive gland ofMytilus edulis(L.), as potential organic pollution biomarkers. Biomarkers, 1997, 2, 51-56.	0.9	132
99	Glutathione S-transferases from the white-rot fungus, Phanerochaete chrysosporium. Biochemical Journal, 1997, 324, 243-248.	1.7	29
100	Fast Protein Liquid Chromatography (FPLC) Methods. , 1996, 59, 269-276.		2
101	Seasonal variation in the antioxidant defence systems of gill and digestive gland of the blue mussel, Mytilus edulis. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 114, 99-103.	0.5	52
102	Ligand-binding properties of the glutathione-binding protein of the mussel, Mytilus edulis. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1996, 115, 439-443.	0.7	3
103	Binding of 2-hydroxy-5-nitrobenzyl alcohol to rat alpha class glutathione S-transferases; evidence for binding at tryptophan 21. BBA - Proteins and Proteomics, 1996, 1293, 185-190.	2.1	9
104	Seasonal variations in the levels of antioxidant enzymes in mytilus edulis. Biochemical Society Transactions, 1995, 23, 354S-354S.	1.6	4
105	Purification of Î±-acetolactate synthase from <i>Leuconostoc lactis</i> NCW1. Biochemical Society Transactions, 1995, 23, 366S-366S.	1.6	3
106	Purification of Glutathione S-Transferases from Yarrowia lipolytica. Biochemical Society Transactions, 1995, 23, 374S-374S.	1.6	0
107	Structural investigation of a glutathione binding site using computational analysis. Biochemical Society Transactions, 1995, 23, 382S-382S.	1.6	3
108	Cysteine plays a role in catalysis in glutathione S-transferase 1â€“1. Biochemical Society Transactions, 1995, 23, 388S-388S.	1.6	1

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109	Studies on isoenzymes of glutathione S-transferase in the digestive gland of Mytilus galloprovincialis with exposure to pollution. Marine Environmental Research, 1995, 39, 241-244.	1.1	51
110	Nucleotide and deduced amino acid sequences of Rhizobium meliloti 102F34 lacZ gene: comparison with prokaryotic Î2-galactosidases and human Î2-glucuronidase. Gene, 1994, 141, 91-96.	1.0	13
111	Identification of a novel call wall-associated endopeptidase in <u>Lactococcus lactis</u> subspecies <u>cromoris</u> SK11. Biochemical Society Transactions, 1994, 22, 38S-38S.	1.6	1
112	Purification of glutathione S-transferase from the fungus Alternaria alternata. Biochemical Society Transactions, 1994, 22, 58S-58S.	1.6	2
113	Microbial glutathione S-transferases. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1993, 104, 1-6.	0.2	15
114	Evidence for Alpha and Mu class glutathione S-transferases in a number of fungal species. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1993, 104, 7-13.	0.2	15
115	Subunit structure of fungal Glutathione-S-Transferases. Biochemical Society Transactions, 1991, 19, 17S-17S.	1.6	2
116	Effect of divalent metal cations on <u>Rhizobium meliloti</u> B-galactosidase. Biochemical Society Transactions, 1991, 19, 19S-19S.	1.6	7
117	Gluthathione S-transferases AA and B possess a common antigenic determinant. Biochemical Society Transactions, 1982, 10, 113-113.	1.6	1
118	Purification and basic properties of the aspartate aminotransferases from a variety of sources. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1981, 69, 737-746.	0.2	3
119	Calcium and Citrate Protect Pisum sativum Roots against Copper Toxicity by Regulating the Cellular Redox Status. Journal of Soil Science and Plant Nutrition, 0, , 1.	1.7	5