

Anna Palumbo

List of Publications by Year in descending order

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107
papers

3,626
citations

117453

34
h-index

168136

53
g-index

108
all docs

108
docs citations

108
times ranked

3554
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of inhibition of melanogenesis by hydroquinone. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 85-90.	1.1	183
2	The inherent cytotoxicity of melanin precursors: A revision. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994, 1221, 272-278.	1.9	158
3	Cephalopods in neuroscience: regulations, research and the 3Rs. <i>Invertebrate Neuroscience</i> , 2014, 14, 13-36.	1.8	142
4	Evolution of the Nitric Oxide Synthase Family in Metazoans. <i>Molecular Biology and Evolution</i> , 2011, 28, 163-179.	3.5	123
5	An integrated approach to the structure of Sepia melanin. Evidence for a high proportion of degraded 5,6-dihydroxyindole-2-carboxylic acid units in the pigment backbone. <i>Tetrahedron</i> , 1997, 53, 8281-8286.	1.0	117
6	Nitric oxide in marine invertebrates: A comparative perspective. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2005, 142, 241-248.	0.8	112
7	Structural modifications in biosynthetic melanins induced by metal ions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1988, 964, 193-199.	1.1	80
8	Comparative action of dopachrome tautomerase and metal ions on the rearrangement of dopachrome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1115, 1-5.	1.1	71
9	Nitrite- and Peroxide-Dependent Oxidation Pathways of Dopamine: 6-Nitrodopamine and 6-Hydroxydopamine Formation as Potential Contributory Mechanisms of Oxidative Stress- and Nitric Oxide-Induced Neurotoxicity in Neuronal Degeneration. <i>Chemical Research in Toxicology</i> , 1999, 12, 1213-1222.	1.7	71
10	Comparative toxicities of selected rare earth elements: Sea urchin embryogenesis and fertilization damage with redox and cytogenetic effects. <i>Environmental Research</i> , 2016, 147, 453-460.	3.7	70
11	Melanogenesis in the Ink Gland of <i>Sepia officinalis</i> . <i>Pigment Cell & Melanoma Research</i> , 2003, 16, 517-522.	4.0	65
12	Ovothiol Isolated from Sea Urchin Oocytes Induces Autophagy in the Hep-G2 Cell Line. <i>Marine Drugs</i> , 2014, 12, 4069-4085.	2.2	63
13	How sea urchins face microplastics: Uptake, tissue distribution and immune system response. <i>Environmental Pollution</i> , 2020, 264, 114685.	3.7	62
14	Diffusible melanin-related metabolites are potent inhibitors of lipid peroxidation. <i>Lipids and Lipid Metabolism</i> , 1997, 1346, 61-68.	2.6	59
15	Nitric Oxide Mediates the Stress Response Induced by Diatom Aldehydes in the Sea Urchin <i>Paracentrotus lividus</i> . <i>PLoS ONE</i> , 2011, 6, e25980.	1.1	58
16	Diatom-Derived Polyunsaturated Aldehydes Activate Cell Death in Human Cancer Cell Lines but Not Normal Cells. <i>PLoS ONE</i> , 2014, 9, e101220.	1.1	58
17	Adrenalin oxidation revisited. New products beyond the adrenochrome stage. <i>Tetrahedron</i> , 1988, 44, 6441-6446.	1.0	56
18	Nitric oxide in marine photosynthetic organisms. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 47, 34-39.	1.2	54

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19	Living in future ocean acidification, physiological adaptive responses of the immune system of sea urchins resident at a CO ₂ vent system. <i>Science of the Total Environment</i> , 2019, 672, 938-950.	3.9	53
20	Mechanism of Selective Incorporation of the Melanoma Seeker 2-Thiouracil into Growing Melanin. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 5192-5201.	2.9	52
21	Regulatory roles of nitric oxide during larval development and metamorphosis in <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2007, 306, 772-784.	0.9	50
22	Comparative toxicity of seven rare earth elements in sea urchin early life stages. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20803-20810.	2.7	50
23	Isolation and structure of a new sulphur-containing aminoacid from sea urchin eggs. <i>Tetrahedron Letters</i> , 1982, 23, 3207-3208.	0.7	46
24	N-Methyl-d-aspartate Receptor Stimulation Activates Tyrosinase and Promotes Melanin Synthesis in the Ink Gland of the Cuttlefish <i>Sepia officinalis</i> through the Nitric Oxide/cGMP Signal Transduction Pathway. <i>Journal of Biological Chemistry</i> , 2000, 275, 16885-16890.	1.6	45
25	Toxicity of melanin-free ink of <i>Sepia officinalis</i> to transformed cell lines: identification of the active factor as tyrosinase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 293-299.	1.0	44
26	Defensome against Toxic Diatom Aldehydes in the Sea Urchin <i>Paracentrotus lividus</i> . <i>PLoS ONE</i> , 2012, 7, e31750.	1.1	44
27	Shedding light on ovoid biosynthesis in marine metazoans. <i>Scientific Reports</i> , 2016, 6, 21506.	1.6	44
28	Dopamine in the ink defence system of <i>Sepia officinalis</i> : biosynthesis, vesicular compartmentation in mature ink gland cells, nitric oxide (NO)/cGMP-induced depletion and fate in secreted ink1. <i>Biochemical Journal</i> , 2004, 378, 785-791.	1.7	40
29	Stress response to cadmium and manganese in <i>Paracentrotus lividus</i> developing embryos is mediated by nitric oxide. <i>Aquatic Toxicology</i> , 2014, 156, 125-134.	1.9	40
30	Integrating nitric oxide, nitrite and hydrogen sulfide signaling in the physiological adaptations to hypoxia: A comparative approach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 162, 1-6.	0.8	39
31	Interactions of Nitric Oxide with Lipid Peroxidation Products under Aerobic Conditions: Inhibitory Effects on the Formation of Malondialdehyde and Related Thiobarbituric Acid-Reactive Substances. <i>Nitric Oxide - Biology and Chemistry</i> , 2000, 4, 4-14.	1.2	38
32	A Calcium-Dependent Nitric Oxide Synthase and NMDA R1 Glutamate Receptor in the Ink Gland of <i>Sepia officinalis</i> : A Hint to a Regulatory Role of Nitric Oxide in Melanogenesis?. <i>Biochemical and Biophysical Research Communications</i> , 1997, 235, 429-432.	1.0	37
33	A Calcium/Calmodulin-Dependent Nitric Oxide Synthase, NMDAR2/3 Receptor Subunits, and Glutamate in the CNS of the Cuttlefish <i>Sepia officinalis</i> . <i>Journal of Neurochemistry</i> , 2001, 73, 1254-1263.	2.1	36
34	Nitric oxide synthase in the nervous system and ink gland of the cuttlefish <i>Sepia officinalis</i> : Molecular cloning and expression. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1204-1215.	1.0	35
35	Nitric Oxide Affects ERK Signaling through Down-Regulation of MAP Kinase Phosphatase Levels during Larval Development of the Ascidian <i>Ciona intestinalis</i> . <i>PLoS ONE</i> , 2014, 9, e102907.	1.1	35
36	Subcellular localization and function of melanogenic enzymes in the ink gland of <i>Sepia officinalis</i> . <i>Biochemical Journal</i> , 1997, 323, 749-756.	1.7	34

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37	Sulfur-containing histidine compounds inhibit \hat{I}^3 -glutamyl transpeptidase activity in human cancer cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 14603-14614.	1.6	34
38	NMDA receptor stimulation induces temporary \hat{I}^{\pm} -tubulin degradation signaled by nitric oxide-mediated tyrosine nitration in the nervous system of <i>Sepia officinalis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 1536-1543.	1.0	33
39	Sea Urchin Bioassays in Toxicity Testing: I. Inorganics, Organics, Complex Mixtures and Natural Products. <i>Expert Opinion on Environmental Biology</i> , 2017, 06, .	0.2	33
40	Nitric oxide synthase (NOS) in the brain of the cephalopod <i>Sepia officinalis</i> . <i>Journal of Comparative Neurology</i> , 2000, 428, 411-427.	0.9	32
41	Maternal Exposure to Cadmium and Manganese Impairs Reproduction and Progeny Fitness in the Sea Urchin <i>Paracentrotus lividus</i> . <i>PLoS ONE</i> , 2015, 10, e0131815.	1.1	32
42	Anti-Inflammatory Activity of Marine Ovothiol A in an <i>In Vitro</i> Model of Endothelial Dysfunction Induced by Hyperglycemia. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-12.	1.9	31
43	Nitrocatechols versus nitrocatecholamines as novel competitive inhibitors of neuronal nitric oxide synthase: lack of the aminoethyl side chain determines loss of tetrahydrobiopterin-antagonizing properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 13-16.	1.0	30
44	Occurrence and properties of tyrosinase in the ejected ink of cephalopods. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1981, 68, 415-419.	0.2	27
45	A new look at the rearrangement of adrenochrome under biomimetic conditions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989, 990, 297-302.	1.1	27
46	Inositol tri-phosphate in human and ascidian spermatozoa. <i>Molecular Reproduction and Development</i> , 1993, 35, 52-56.	1.0	27
47	Thiouracil Antithyroid Drugs as a New Class of Neuronal Nitric Oxide Synthase Inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 793-797.	1.0	27
48	Subtle reproductive impairment through nitric oxide-mediated mechanisms in sea urchins from an area affected by harmful algal blooms. <i>Scientific Reports</i> , 2016, 6, 26086.	1.6	27
49	The Effect of Polyunsaturated Aldehydes on <i>Skeletonema marinoi</i> (Bacillariophyceae): The Involvement of Reactive Oxygen Species and Nitric Oxide. <i>Marine Drugs</i> , 2014, 12, 4165-4187.	2.2	26
50	Effects of ocean acidification on the levels of primary and secondary metabolites in the brown macroalga <i>Sargassum vulgare</i> at different time scales. <i>Science of the Total Environment</i> , 2018, 643, 946-956.	3.9	26
51	2-Thiouracil is a selective inhibitor of neuronal nitric oxide synthase antagonising tetrahydrobiopterin-dependent enzyme activation and dimerisation. <i>FEBS Letters</i> , 2000, 485, 109-112.	1.3	25
52	Tubulin nitration in human gliomas. <i>Neuroscience Letters</i> , 2006, 394, 57-62.	1.0	25
53	Heavy rare earth elements affect early life stages in <i>Paracentrotus lividus</i> and <i>Arbacia lixula</i> sea urchins. <i>Environmental Research</i> , 2017, 154, 240-246.	3.7	25
54	Antifibrotic Effect of Marine Ovothiol in an <i>In Vivo</i> Model of Liver Fibrosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-10.	1.9	25

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55	Inhibitory effect of melanin precursors on arachidonic acid peroxidation. <i>Lipids and Lipid Metabolism</i> , 1993, 1168, 175-180.	2.6	24
56	Physiological and Biochemical Analyses Shed Light on the Response of <i>Sargassum vulgare</i> to Ocean Acidification at Different Time Scales. <i>Frontiers in Plant Science</i> , 2017, 8, 570.	1.7	24
57	Interplay Between Nanoplastics and the Immune System of the Mediterranean Sea Urchin <i>Paracentrotus lividus</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	24
58	Isolation and distribution of 1-methyl-5-thiol-l-histidine disulphide and a related metabolite in eggs from echinoderms. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1984, 78, 81-83.	0.2	22
59	PHOTOCHEMISTRY OF 5-S-CYSTEINYLDOPA. <i>Photochemistry and Photobiology</i> , 1994, 60, 33-37.	1.3	22
60	Peroxidase activity in the ink gland of <i>Sepia officinalis</i> and partial nucleotide sequence of a candidate cDNA encoding the enzyme. <i>BBA - Proteins and Proteomics</i> , 1995, 1247, 173-178.	2.1	22
61	Nitric Oxide Mediates the Glutamate-dependent Pathway for Neurotransmission in <i>Sepia officinalis</i> Chromatophore Organs. <i>Journal of Biological Chemistry</i> , 2010, 285, 24154-24163.	1.6	22
62	Selective uptake of 2-thiouracil into melanin-producing systems depends on chemical binding to enzymically generated dopaquinone. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1990, 1036, 221-227.	1.1	21
63	Molecular cloning of a peroxidase mRNA specifically expressed in the ink gland of <i>Sepia officinalis</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997, 1353, 111-117.	2.4	21
64	¹⁷ O ₂ -Estradiol nitration by peroxidase/H ₂ O ₂ /NO ₂ ⁻ : a chemical assessment. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2927-2936.	1.4	21
65	Molecular response of <i>Sargassum vulgare</i> to acidification at volcanic CO ₂ vents: insights from de novo transcriptomic analysis. <i>Molecular Ecology</i> , 2017, 26, 2276-2290.	2.0	21
66	Impact of Microbial Colonization of Polystyrene Microbeads on the Toxicological Responses in the Sea Urchin <i>Paracentrotus lividus</i> . <i>Environmental Science & Technology</i> , 2021, 55, 7990-8000.	4.6	21
67	Activation of mammalian tyrosinase by ferrous ions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1990, 1033, 256-260.	1.1	20
68	Iron- and peroxide-dependent conjugation of dopamine with cysteine: oxidative routes to the novel brain metabolite 5-S-cysteinyl-dopamine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1995, 1245, 255-261.	1.1	19
69	First evidence of ovothiol biosynthesis in marine diatoms. <i>Free Radical Biology and Medicine</i> , 2020, 152, 680-688.	1.3	19
70	Non-enzymic oxidation of cysteinyl-dopa catalyzed by metallic ions. <i>General Pharmacology</i> , 1983, 14, 253-257.	0.7	18
71	Oxidative Conversion of 6-Nitrocatecholamines to Nitrosating Products: A Possible Contributory Factor in Nitric Oxide and Catecholamine Neurotoxicity Associated with Oxidative Stress and Acidosis. <i>Chemical Research in Toxicology</i> , 2001, 14, 1296-1305.	1.7	18
72	Antioxidant and immune response of the sea urchin <i>Paracentrotus lividus</i> to different re-suspension patterns of highly polluted marine sediments. <i>Marine Environmental Research</i> , 2020, 160, 104978.	1.1	18

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73	Isolation and characterization of adenochrome, a unique iron(III)-binding peptide from <i>Octopus vulgaris</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1979, , 2617.	0.9	17
74	Human Melanocytes and Melanomas Express Novel mRNA Isoforms of the Tyrosinase-Related Protein-2/DOPAchrome Tautomerase Gene: Molecular and Functional Characterization. <i>Journal of Investigative Dermatology</i> , 2000, 115, 48-56.	0.3	17
75	Oxidation of the Neurotoxin 6-Nitrodopamine and Related 4-Nitrocatechols Under Biomimetic Conditions. <i>Tetrahedron</i> , 2000, 56, 5941-5945.	1.0	17
76	Specific incorporation of 2-thiouracil into biological melanins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1200, 271-276.	1.1	16
77	Protein nitration as footprint of oxidative stress-related nitric oxide signaling pathways in developing <i>Ciona intestinalis</i> . <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 27, 18-24.	1.2	16
78	Nitric Oxide regulates mouth development in amphioxus. <i>Scientific Reports</i> , 2017, 7, 8432.	1.6	16
79	Nitric oxide synthase expression in the central nervous system of <i>Sepia officinalis</i> : an <i>in situ</i> hybridization study. <i>European Journal of Neuroscience</i> , 2007, 26, 1599-1610.	1.2	15
80	Insights into the Light Response of <i>Skeletonema marinoi</i> : Involvement of Ovothiol. <i>Marine Drugs</i> , 2020, 18, 477.	2.2	15
81	Inhibition of neuronal nitric oxide synthase by 6-nitrocatecholamines, putative reaction products of nitric oxide with catecholamines under oxidative stress conditions. <i>Biochemical Journal</i> , 2001, 356, 105-110.	1.7	14
82	The dynamic nitric oxide pattern in developing cuttlefish <i>Sepia officinalis</i> . <i>Developmental Dynamics</i> , 2012, 241, 390-402.	0.8	14
83	Probing the Interactions of Sulfur-Containing Histidine Compounds with Human Gamma-Glutamyl Transpeptidase. <i>Marine Drugs</i> , 2019, 17, 650.	2.2	14
84	Ocean acidification affects biological activities of seaweeds: A case study of <i>Sargassum vulgare</i> from Ischia volcanic CO ₂ vents. <i>Environmental Pollution</i> , 2020, 259, 113765.	3.7	14
85	Ni ²⁺ , a Double-Acting Inhibitor of Neuronal Nitric Oxide Synthase Interfering with -Arginine Binding and Ca ²⁺ /Calmodulin-Dependent Enzyme Activation. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 142-146.	1.0	13
86	The diatom-derived aldehyde decadienal affects life cycle transition in the ascidian <i>Ciona intestinalis</i> through nitric oxide/ERK signalling. <i>Open Biology</i> , 2015, 5, 140182.	1.5	13
87	Biotic and environmental stress induces nitration and changes in structure and function of the sea urchin major yolk protein toposome. <i>Scientific Reports</i> , 2018, 8, 4610.	1.6	13
88	Occurrence of microfibrils in wild specimens of adult sea urchin <i>Paracentrotus lividus</i> (Lamarck, 1819). <i>Journal of Microencapsulation</i> , 2010, 27, 105-110.	2.3	13
89	Tetrahydroisoquinoline Derivatives by Reaction of Dopamine with Glyoxal: A Novel Potential Degenerative Pathway of Catecholamines under Oxidative Stress Conditions. <i>Chemical Research in Toxicology</i> , 2004, 17, 1190-1198.	1.7	12
90	Oxidative pathways in response to polyunsaturated aldehydes in the marine diatom <i>Skeletonema marinoi</i> (Bacillariophyceae). <i>Journal of Phycology</i> , 2016, 52, 590-598.	1.0	12

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91	Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate <i>Oikopleura dioica</i> . <i>Communications Biology</i> , 2018, 1, 121.	2.0	12
92	Sea Urchin Bioassays in Toxicity Testing: II. Sediment Evaluation. <i>Expert Opinion on Environmental Biology</i> , 2017, 06, .	0.2	12
93	Ni ²⁺ enhances Fe ²⁺ /peroxide-induced oxidation of arachidonic acid and formation of geno/cytotoxic 4-hydroxynonenal: a possible contributory mechanism in nickel toxicity and allergenicity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1621, 9-16.	1.1	11
94	Inhibition of neuronal nitric oxide synthase by 6-nitrocatecholamines, putative reaction products of nitric oxide with catecholamines under oxidative stress conditions. <i>Biochemical Journal</i> , 2001, 356, 105.	1.7	11
95	Nitric oxide biogenesis, signalling and roles in molluscs: The <i>Sepia officinalis</i> paradigm. <i>Advances in Experimental Biology</i> , 2007, 1, 45-451.	0.1	8
96	Ovothiol ensures the correct developmental programme of the sea urchin <i>Paracentrotus lividus</i> embryo. <i>Open Biology</i> , 2022, 12, 210262.	1.5	8
97	The short life of the Hoyle organ of <i>Sepia officinalis</i> : formation, differentiation and degradation by programmed cell death. <i>Hydrobiologia</i> , 2018, 808, 35-55.	1.0	7
98	Isolation of a possible biosynthetic precursor of adenochrome from the white bodies of <i>Octopus vulgaris</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1977, 58, 353-356.	0.2	6
99	Novel Insights on Nitric Oxide Synthase and NO Signaling in Ascidian Metamorphosis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3505.	1.8	5
100	Protein nitration is specifically associated with melanin production and reveals redox imbalance as a new correlate of cell maturation in the ink gland of <i>Sepia officinalis</i> . <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 857-859.	1.5	4
101	Nitric oxide in chromatic body patterning elements of <i>Sepia officinalis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 447, 128-131.	0.7	4
102	A Survey on the Distribution of Ovothiol and ovoA Gene Expression in Different Tissues and Cells: A Comparative Analysis in Sea Urchins and Mussels. <i>Marine Drugs</i> , 2022, 20, 268.	2.2	4
103	Molecular response of <i>Sargassum vulgare</i> to acidification at volcanic CO ₂ vents: Insights from proteomic and metabolite analyses. <i>Molecular Ecology</i> , 2022, 31, 3844-3858.	2.0	4
104	Transphyletic conservation of nitric oxide synthase regulation in cephalochordates and tunicates. <i>Development Genes and Evolution</i> , 2020, 230, 329-338.	0.4	3
105	The role of the white bodies in the biosynthesis of adenochrome. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1982, 71, 297-300.	0.2	2
106	Skin Depigmentation by Hydroquinone: A Chemical and Biochemical Insight. <i>Pigment Cell & Melanoma Research</i> , 1990, 3, 299-303.	4.0	1
107	The Ink Gland of <i>Sepia Officinalis</i> as Biological Model for Investigations of Melanogenesis. , 1998, , 147-149.		0