Anna Palumbo

List of Publications by Year
in descending order

107	3,626	117453	168136
papers	citations	34 h-index	53 g-index

108	108	108	3554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ovothiol ensures the correct developmental programme of the sea urchin Paracentrotus lividus embryo. Open Biology, 2022, 12, 210262.	1.5	8
2	Novel Insights on Nitric Oxide Synthase and NO Signaling in Ascidian Metamorphosis. International Journal of Molecular Sciences, 2022, 23, 3505.	1.8	5
3	Occurrence of microfibres in wild specimens of adult sea urchin Paracentrotus lividus (Lamarck,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	13
4	A Survey on the Distribution of Ovothiol and ovoA Gene Expression in Different Tissues and Cells: A Comparative Analysis in Sea Urchins and Mussels. Marine Drugs, 2022, 20, 268.	2.2	4
5	Molecular response of Sargassum vulgare to acidification at volcanic <scp>CO₂</scp> vents: Insights from proteomic and metabolite analyses. Molecular Ecology, 2022, 31, 3844-3858.	2.0	4
6	Interplay Between Nanoplastics and the Immune System of the Mediterranean Sea Urchin Paracentrotus lividus. Frontiers in Marine Science, 2021, 8, .	1.2	24
7	Impact of Microbial Colonization of Polystyrene Microbeads on the Toxicological Responses in the Sea Urchin Paracentrotus lividus. Environmental Science & Technology, 2021, 55, 7990-8000.	4.6	21
8	Ocean acidification affects biological activities of seaweeds: A case study of Sargassum vulgare from Ischia volcanic CO2 vents. Environmental Pollution, 2020, 259, 113765.	3.7	14
9	Insights into the Light Response of Skeletonema marinoi: Involvement of Ovothiol. Marine Drugs, 2020, 18, 477.	2.2	15
10	Transphyletic conservation of nitric oxide synthase regulation in cephalochordates and tunicates. Development Genes and Evolution, 2020, 230, 329-338.	0.4	3
11	First evidence of ovothiol biosynthesis in marine diatoms. Free Radical Biology and Medicine, 2020, 152, 680-688.	1.3	19
12	How sea urchins face microplastics: Uptake, tissue distribution and immune system response. Environmental Pollution, 2020, 264, 114685.	3.7	62
13	Antioxidant and immune response of the sea urchin Paracentrotus lividus to different re-suspension patterns of highly polluted marine sediments. Marine Environmental Research, 2020, 160, 104978.	1.1	18
14	Sulfur-containing histidine compounds inhibit Î³-glutamyl transpeptidase activity in human cancer cells. Journal of Biological Chemistry, 2019, 294, 14603-14614.	1.6	34
15	Living in future ocean acidification, physiological adaptive responses of the immune system of sea urchins resident at a CO2 vent system. Science of the Total Environment, 2019, 672, 938-950.	3.9	53
16	Probing the Interactions of Sulfur-Containing Histidine Compounds with Human Gamma-Glutamyl Transpeptidase. Marine Drugs, 2019, 17, 650.	2.2	14
17	Biotic and environmental stress induces nitration and changes in structure and function of the sea urchin major yolk protein toposome. Scientific Reports, 2018, 8, 4610.	1.6	13
18	The short life of the Hoyle organ of Sepia officinalis: formation, differentiation and degradation by programmed cell death. Hydrobiologia, 2018, 808, 35-55.	1.0	7

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19	Antifibrotic Effect of Marine Ovothiol in an In Vivo Model of Liver Fibrosis. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-10.	1.9	25
20	Effects of ocean acidification on the levels of primary and secondary metabolites in the brown macroalga Sargassum vulgare at different time scales. Science of the Total Environment, 2018, 643, 946-956.	3.9	26
21	Anti-Inflammatory Activity of Marine Ovothiol A in anIn VitroModel of Endothelial Dysfunction Induced by Hyperglycemia. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	31
22	Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate Oikopleura dioica. Communications Biology, 2018, 1, 121.	2.0	12
23	Heavy rare earth elements affect early life stages in Paracentrotus lividus and Arbacia lixula sea urchins. Environmental Research, 2017, 154, 240-246.	3.7	25
24	Molecular response of Sargassum vulgare to acidification at volcanic <scp>CO</scp>₂ vents: insights from de novo transcriptomic analysis. Molecular Ecology, 2017, 26, 2276-2290.	2.0	21
25	Nitric Oxide regulates mouth development in amphioxus. Scientific Reports, 2017, 7, 8432.	1.6	16
26	Comparative toxicity of seven rare earth elements in sea urchin early life stages. Environmental Science and Pollution Research, 2017, 24, 20803-20810.	2.7	50
27	Physiological and Biochemical Analyses Shed Light on the Response of Sargassum vulgare to Ocean Acidification at Different Time Scales. Frontiers in Plant Science, 2017, 8, 570.	1.7	24
28	Sea Urchin Bioassays in Toxicity Testing: II. Sediment Evaluation. Expert Opinion on Environmental Biology, 2017, 06, .	0.2	12
29	Sea Urchin Bioassays in Toxicity Testing: I. Inorganics, Organics, Complex Mixtures and Natural Products. Expert Opinion on Environmental Biology, 2017, 06, .	0.2	33
30	Shedding light on ovothiol biosynthesis in marine metazoans. Scientific Reports, 2016, 6, 21506.	1.6	44
31	Subtle reproductive impairment through nitric oxide-mediated mechanisms in sea urchins from an area affected by harmful algal blooms. Scientific Reports, 2016, 6, 26086.	1.6	27
32	Oxidative pathways in response to polyunsaturated aldehydes in the marine diatom Skeletonema marinoi (Bacillariophyceae). Journal of Phycology, 2016, 52, 590-598.	1.0	12
33	Comparative toxicities of selected rare earth elements: Sea urchin embryogenesis and fertilization damage with redox and cytogenetic effects. Environmental Research, 2016, 147, 453-460.	3.7	70
34	Maternal Exposure to Cadmium and Manganese Impairs Reproduction and Progeny Fitness in the Sea Urchin Paracentrotus lividus. PLoS ONE, 2015, 10, e0131815.	1.1	32
35	The diatom-derived aldehyde decadienal affects life cycle transition in the ascidianCiona intestinalisthrough nitric oxide/ERK signalling. Open Biology, 2015, 5, 140182.	1.5	13
36	Nitric oxide in marine photosynthetic organisms. Nitric Oxide - Biology and Chemistry, 2015, 47, 34-39.	1.2	54

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37	Ovothiol Isolated from Sea Urchin Oocytes Induces Autophagy in the Hep-G2 Cell Line. Marine Drugs, 2014, 12, 4069-4085.	2.2	63
38	The Effect of Polyunsaturated Aldehydes on Skeletonema marinoi (Bacillariophyceae): The Involvement of Reactive Oxygen Species and Nitric Oxide. Marine Drugs, 2014, 12, 4165-4187.	2.2	26
39	Cephalopods in neuroscience: regulations, research and the 3Rs. Invertebrate Neuroscience, 2014, 14, 13-36.	1.8	142
40	Stress response to cadmium and manganese in Paracentrotus lividus developing embryos is mediated by nitric oxide. Aquatic Toxicology, 2014, 156, 125-134.	1.9	40
41	Diatom-Derived Polyunsaturated Aldehydes Activate Cell Death in Human Cancer Cell Lines but Not Normal Cells. PLoS ONE, 2014, 9, e101220.	1.1	58
42	Nitric Oxide Affects ERK Signaling through Down-Regulation of MAP Kinase Phosphatase Levels during Larval Development of the Ascidian Ciona intestinalis. PLoS ONE, 2014, 9, e102907.	1.1	35
43	Nitric oxide in chromatic body patterning elements of Sepia officinalis. Journal of Experimental Marine Biology and Ecology, 2013, 447, 128-131.	0.7	4
44	Protein nitration as footprint of oxidative stress-related nitric oxide signaling pathways in developing Ciona intestinalis. Nitric Oxide - Biology and Chemistry, 2012, 27, 18-24.	1.2	16
45	Defensome against Toxic Diatom Aldehydes in the Sea Urchin Paracentrotus lividus. PLoS ONE, 2012, 7, e31750.	1.1	44
46	Integrating nitric oxide, nitrite and hydrogen sulfide signaling in the physiological adaptations to hypoxia: A comparative approach. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 1-6.	0.8	39
47	The dynamic nitric oxide pattern in developing cuttlefish Sepia officinalis. Developmental Dynamics, 2012, 241, 390-402.	0.8	14
48	Evolution of the Nitric Oxide Synthase Family in Metazoans. Molecular Biology and Evolution, 2011, 28, 163-179.	3.5	123
49	Nitric Oxide Mediates the Stress Response Induced by Diatom Aldehydes in the Sea Urchin Paracentrotus lividus. PLoS ONE, 2011, 6, e25980.	1.1	58
50	Nitric Oxide Mediates the Glutamate-dependent Pathway for Neurotransmission in Sepia officinalis Chromatophore Organs. Journal of Biological Chemistry, 2010, 285, 24154-24163.	1.6	22
51	Protein nitration is specifically associated with melanin production and reveals redox imbalance as a new correlate of cell maturation in the ink gland of Sepia officinalis. Pigment Cell and Melanoma Research, 2009, 22, 857-859.	1.5	4
52	Nitric oxide biogenesis, signalling and roles in molluscs: The Sepia officinalis paradigm. Advances in Experimental Biology, 2007, 1, 45-451.	0.1	8
53	Regulatory roles of nitric oxide during larval development and metamorphosis in Ciona intestinalis. Developmental Biology, 2007, 306, 772-784.	0.9	50
54	Nitric oxide synthase expression in the central nervous system of Sepia officinalis: an in situ hybridization study. European Journal of Neuroscience, 2007, 26, 1599-1610.	1.2	15

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55	Tubulin nitration in human gliomas. Neuroscience Letters, 2006, 394, 57-62.	1.0	25
56	Nitric oxide in marine invertebrates: A comparative perspective. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2005, 142, 241-248.	0.8	112
57	Nitric oxide synthase in the nervous system and ink gland of the cuttlefish Sepia officinalis: Molecular cloning and expression. Biochemical and Biophysical Research Communications, 2005, 338, 1204-1215.	1.0	35
58	17Î²-Estradiol nitration by peroxidase/H2O2/NO2â¯: a chemical assessment. Bioorganic and Medicinal Chemistry, 2004, 12, 2927-2936.	1.4	21
59	Tetrahydrobiisoquinoline Derivatives by Reaction of Dopamine with Glyoxal:Â A Novel Potential Degenerative Pathway of Catecholamines under Oxidative Stress Conditions. Chemical Research in Toxicology, 2004, 17, 1190-1198.	1.7	12
60	Dopamine in the ink defence system of Sepia officinalis: biosynthesis, vesicular compartmentation in mature ink gland cells, nitric oxide (NO)/cGMP-induced depletion and fate in secreted ink1. Biochemical Journal, 2004, 378, 785-791.	1.7	40
61	Melanogenesis in the Ink Gland of Sepia officinalis. Pigment Cell & Melanoma Research, 2003, 16, 517-522.	4.0	65
62	Toxicity of melanin-free ink of Sepia officinalis to transformed cell lines: identification of the active factor as tyrosinase. Biochemical and Biophysical Research Communications, 2003, 308, 293-299.	1.0	44
63	Ni2+ enhances Fe2+/peroxide-induced oxidation of arachidonic acid and formation of geno/cytotoxic 4-hydroxynonenal: a possible contributory mechanism in nickel toxicity and allergenicity. Biochimica Et Biophysica Acta - General Subjects, 2003, 1621, 9-16.	1.1	11
64	NMDA receptor stimulation induces temporary Î±-tubulin degradation signaled by nitric oxide-mediated tyrosine nitration in the nervous system of Sepia officinalis. Biochemical and Biophysical Research Communications, 2002, 293, 1536-1543.	1.0	33
65	Nitrocatechols versus nitrocatecholamines as novel competitive inhibitors of neuronal nitric oxide synthase: lack of the aminoethyl side chain determines loss of tetrahydrobiopterin-antagonizing properties. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 13-16.	1.0	30
66	Oxidative Conversion of 6-Nitrocatecholamines to Nitrosating Products:Â A Possible Contributory Factor in Nitric Oxide and Catecholamine Neurotoxicity Associated with Oxidative Stress and Acidosis. Chemical Research in Toxicology, 2001, 14, 1296-1305.	1.7	18
67	Thiouracil Antithyroid Drugs as a New Class of Neuronal Nitric Oxide Synthase Inhibitors. Biochemical and Biophysical Research Communications, 2001, 282, 793-797.	1.0	27
68	Ni2+, a Double-Acting Inhibitor of Neuronal Nitric Oxide Synthase Interfering with -Arginine Binding and Ca2+/Calmodulin-Dependent Enzyme Activation. Biochemical and Biophysical Research Communications, 2001, 285, 142-146.	1.0	13
69	Inhibition of neuronal nitric oxide synthase by 6-nitrocatecholamines, putative reaction products of nitric oxide with catecholamines under oxidative stress conditions. Biochemical Journal, 2001, 356, 105-110.	1.7	14
70	A Calcium/Calmodulin-Dependent Nitric Oxide Synthase, NMDAR2/3 Receptor Subunits, and Glutamate in the CNS of the Cuttlefish Sepia officinalis. Journal of Neurochemistry, 2001, 73, 1254-1263.	2.1	36
71	Inhibition of neuronal nitric oxide synthase by 6-nitrocatecholamines, putative reaction products of nitric oxide with catecholamines under oxidative stress conditions. Biochemical Journal, 2001, 356, 105.	1.7	11
72	Nitric oxide synthase (NOS) in the brain of the cephalopodSepia officinalis. Journal of Comparative Neurology, 2000, 428, 411-427.	0.9	32

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73	Human Melanocytes and Melanomas Express Novel mRNA Isoforms of the Tyrosinase-Related Protein-2/DOPAchrome Tautomerase Gene: Molecular and Functional Characterization. Journal of Investigative Dermatology, 2000, 115, 48-56.	0.3	17
74	Oxidation of the Neurotoxin 6-Nitrodopamine and Related 4-Nitrocatechols Under Biomimetic Conditions. Tetrahedron, 2000, 56, 5941-5945.	1.0	17
75	N-Methyl-d-aspartate Receptor Stimulation Activates Tyrosinase and Promotes Melanin Synthesis in the Ink Gland of the Cuttlefish Sepia officinalis through the Nitric Oxide/cGMP Signal Transduction Pathway. Journal of Biological Chemistry, 2000, 275, 16885-16890.	1.6	45
76	Interactions of Nitric Oxide with Lipid Peroxidation Products under Aerobic Conditions: Inhibitory Effects on the Formation of Malondialdehyde and Related Thiobarbituric Acid-Reactive Substances. Nitric Oxide - Biology and Chemistry, 2000, 4, 4-14.	1.2	38
77	2-Thiouracil is a selective inhibitor of neuronal nitric oxide synthase antagonising tetrahydrobiopterin-dependent enzyme activation and dimerisation. FEBS Letters, 2000, 485, 109-112.	1.3	25
78	Nitrite- and Peroxide-Dependent Oxidation Pathways of Dopamine:â€‰ 6-Nitrodopamine and 6-Hydroxydopamine Formation as Potential Contributory Mechanisms of Oxidative Stress- and Nitric Oxide-Induced Neurotoxicity in Neuronal Degeneration. Chemical Research in Toxicology, 1999, 12, 1213-1222.	1.7	71
79	The Ink Gland of Sepia Officinalis as Biological Model for Investigations of Melanogenesis. , 1998, , 147-149.		0
80	Subcellular localization and function of melanogenic enzymes in the ink gland of Sepia officinalis. Biochemical Journal, 1997, 323, 749-756.	1.7	34
81	A Calcium-Dependent Nitric Oxide Synthase and NMDA R1 Glutamate Receptor in the Ink Gland ofSepia officinalis:A Hint to a Regulatory Role of Nitric Oxide in Melanogenesis?. Biochemical and Biophysical Research Communications, 1997, 235, 429-432.	1.0	37
82	Diffusible melanin-related metabolites are potent inhibitors of lipid peroxidation. Lipids and Lipid Metabolism, 1997, 1346, 61-68.	2.6	59
83	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. Tetrahedron, 1997, 53, 8281-8286.	1.0	117
84	Molecular cloning of a peroxidase mRNA specifically expressed in the ink gland of Sepia officinalis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1353, 111-117.	2.4	21
85	Mechanism of Selective Incorporation of the Melanoma Seeker 2-Thiouracil into Growing Melanin. Journal of Medicinal Chemistry, 1996, 39, 5192-5201.	2.9	52
86	Peroxidase activity in the ink gland of Sepia officinalis and partial nucleotide sequence of a candidate cDNA encoding the enzyme. BBA - Proteins and Proteomics, 1995, 1247, 173-178.	2.1	22
87	Iron- and peroxide-dependent conjugation of dopamine with cysteine: oxidative routes to the novel brain metabolite 5-S-cysteinyldopamine. Biochimica Et Biophysica Acta - General Subjects, 1995, 1245, 255-261.	1.1	19
88	PHOTOCHEMISTRY OF 5â€‹i>S</i>â€CYSTEINYLDOPA. Photochemistry and Photobiology, 1994, 60, 33-37.	1.3	22
89	The inherent cytotoxicity of melanin precursors: A revision. Biochimica Et Biophysica Acta - Molecular Cell Research, 1994, 1221, 272-278.	1.9	158
90	Specific incorporation of 2-thiouracil into biological melanins. Biochimica Et Biophysica Acta - General Subjects, 1994, 1200, 271-276.	1.1	16

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91	Inositol tri-phosphate in human and ascidian spermatozoa. Molecular Reproduction and Development, 1993, 35, 52-56.	1.0	27
92	Inhibitory effect of melanin precursors on arachidonic acid peroxidation. Lipids and Lipid Metabolism, 1993, 1168, 175-180.	2.6	24
93	Mechanism of inhibition of melanogenesis by hydroquinone. Biochimica Et Biophysica Acta - General Subjects, 1991, 1073, 85-90.	1.1	183
94	Comparative action of dopachrome tautomerase and metal ions on the rearrangement of dopachrome. Biochimica Et Biophysica Acta - General Subjects, 1991, 1115, 1-5.	1.1	71
95	Selective uptake of 2-thiouracil into melanin-producing systems depends on chemical binding to enzymically generated dopaquinone. Biochimica Et Biophysica Acta - General Subjects, 1990, 1036, 221-227.	1.1	21
96	Activation of mammalian tyrosinase by ferrous ions. Biochimica Et Biophysica Acta - General Subjects, 1990, 1033, 256-260.	1.1	20
97	Skin Depigmentation by Hydroquinone: A Chemical and Biochemical Insight. Pigment Cell & Melanoma Research, 1990, 3, 299-303.	4.0	1
98	A new look at the rearrangement of adrenochrome under biomimetic conditions. Biochimica Et Biophysica Acta - General Subjects, 1989, 990, 297-302.	1.1	27
99	Adrenalin oxidation revisited. New products beyond the adrenochrome stage. Tetrahedron, 1988, 44, 6441-6446.	1.0	56
100	Structural modifications in biosynthetic melanins induced by metal ions. Biochimica Et Biophysica Acta - General Subjects, 1988, 964, 193-199.	1.1	80
101	Isolation and distribution of 1-methyl-5-thiol-l-histidine disulphide and a related metabolite in eggs from echinoderms. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1984, 78, 81-83.	0.2	22
102	Non-enzymic oxidation of cysteinyldopa catalyzed by metallic ions. General Pharmacology, 1983, 14, 253-257.	0.7	18
103	The role of the white bodies in the biosynthesis of adenochrome. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1982, 71, 297-300.	0.2	2
104	Isolation and structure of a new sulphur-containing aminoacid from sea urchin eggs. Tetrahedron Letters, 1982, 23, 3207-3208.	0.7	46
105	Occurrence and properties of tyrosinase in the ejected ink of cephalopods. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1981, 68, 415-419.	0.2	27
106	Isolation and characterization of adenochrome, a unique iron(III)-binding peptide from Octopus vulgaris. Journal of the Chemical Society Perkin Transactions 1, 1979, , 2617.	0.9	17
107	Isolation of a possible biosynthetic precursor of adenochrome from the white bodies of Octopus vulgaris. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1977, 58, 353-356.	0.2	6