

Sonia Michaela Melino

List of Publications by Year in descending order

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76
papers

11,541
citations

117625

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79698

73
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79
all docs

79
docs citations

79
times ranked

23462
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	11.2	4,036
3	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , 2015, 22, 58-73.	11.2	811
4	Histatins: salivary peptides with copper(II) and zinc(II) binding motifs. <i>FEBS Journal</i> , 2014, 281, 657-672.	4.7	93
5	Screening for E3-Ubiquitin ligase inhibitors: challenges and opportunities. <i>Oncotarget</i> , 2014, 5, 7988-8013.	1.8	85
6	Zn ²⁺ ions selectively induce antimicrobial salivary peptide histatin-5 to fuse negatively charged vesicles. Identification and characterization of a zinc-binding motif present in the functional domain. <i>Biochemistry</i> , 1999, 38, 9626-9633.	2.5	75
7	Immune response in COVID-19: what is next?. <i>Cell Death and Differentiation</i> , 2022, 29, 1107-1122.	11.2	69
8	A zinc-binding motif conserved in glyoxalase II, β -lactamase and arylsulfatases. <i>Trends in Biochemical Sciences</i> , 1998, 23, 381-382.	7.5	60
9	Injectable silk fibroin hydrogels functionalized with microspheres as adult stem cells-carrier systems. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 960-971.	7.5	57
10	Hydrogen Sulfide-Releasing Fibrous Membranes: Potential Patches for Stimulating Human Stem Cells Proliferation and Viability under Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2368.	4.1	57
11	Global mapping of cancers: The Cancer Genome Atlas and beyond. <i>Molecular Oncology</i> , 2021, 15, 2823-2840.	4.6	55
12	Metal-Binding and Nuclease Activity of an Antimicrobial Peptide Analogue of the Salivary Histatin 5. <i>Biochemistry</i> , 2006, 45, 15373-15383.	2.5	54
13	Allyl sulfur compounds and cellular detoxification system: effects and perspectives in cancer therapy. <i>Amino Acids</i> , 2011, 41, 103-112.	2.7	52
14	Design of a Novel Composite H ₂ S-Releasing Hydrogel for Cardiac Tissue Repair. <i>Macromolecular Bioscience</i> , 2016, 16, 847-858.	4.1	49
15	Specificity of μ and Non- μ Isoforms of Arabidopsis 14-3-3 Proteins Towards the H ⁺ -ATPase and Other Targets. <i>PLoS ONE</i> , 2014, 9, e90764.	2.5	49
16	Sonochemical synthesis of liquid-encapsulated lysozyme microspheres. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 333-337.	8.2	47
17	Molecular cloning, expression and site-directed mutagenesis of glutathione S-transferase from <i>Ochrobactrum anthropi</i> . <i>Biochemical Journal</i> , 1998, 335, 573-579.	3.7	45
18	H ₂ S-releasing nanoemulsions: a new formulation to inhibit tumor cells proliferation and improve tissue repair. <i>Oncotarget</i> , 2016, 7, 84338-84358.	1.8	45

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19	Polymer composite random lasers based on diatom frustules as scatterers. RSC Advances, 2014, 4, 61809-61816.	3.6	44
20	Can COVID-19 pandemic boost the epidemic of neurodegenerative diseases?. Biology Direct, 2020, 15, 28.	4.6	44
21	Structure of calmodulin complexed with an olfactory CNG channel fragment and role of the central linker: Residual dipolar coupling to evaluate calmodulin binding modes outside the kinase family. Journal of Biomolecular NMR, 2005, 31, 185-199.	2.8	42
22	Identification of an N-capping box that affects the α -helix propensity in glutathione S-transferase superfamily proteins: a role for an invariant aspartic residue. Biochemical Journal, 1997, 322, 229-234.	3.7	41
23	Acetylation of RTN-1C regulates the induction of ER stress by the inhibition of HDAC activity in neuroectodermal tumors. Oncogene, 2009, 28, 3814-3824.	5.9	41
24	Glutathione-Garlic Sulfur Conjugates: Slow Hydrogen Sulfide Releasing Agents for Therapeutic Applications. Molecules, 2015, 20, 1731-1750.	3.8	41
25	Pro-oxidant activity of histatin 5 related Cu(II)-model peptide probed by mass spectrometry. Biochemical and Biophysical Research Communications, 2007, 358, 277-284.	2.1	40
26	Nucleic Acid Binding of the RTN1-C C-Terminal Region: Toward the Functional Role of a Reticulon Protein. Biochemistry, 2009, 48, 242-253.	2.5	40
27	The Conserved N-capping Box in the Hydrophobic Core of Glutathione S-Transferase P1 ¹ Is Essential for Refolding. Journal of Biological Chemistry, 1997, 272, 25518-25523.	3.4	39
28	Recognition mechanism of p63 by the E3 ligase Itch. Cell Cycle, 2012, 11, 3638-3648.	2.6	39
29	Oxidative species and S-glutathionyl conjugates in the apoptosis induction by allyl thiosulfate. FEBS Journal, 2012, 279, 154-167.	4.7	39
30	Purification and Characterization of Glutathione Transferases from the Sea Bass (<i>Dicentrarchus labrax</i>) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 30	3.0	38
31	Recognition of p63 by the E3 ligase ITCH: Effect of an ectodermal dysplasia mutant. Cell Cycle, 2010, 9, 3754-3763.	2.6	38
32	Rhodanese ¹ thioredoxin system and allyl sulfur compounds. FEBS Journal, 2008, 275, 3884-3899.	4.7	37
33	Purification and partial characterization of a peroxidase from plant cell cultures of <i>Cassia didymobotrya</i> and biotransformation studies ¹ . Biochemical Journal, 1998, 331, 513-519.	3.7	36
34	Progress for dengue virus diseases. FEBS Journal, 2007, 274, 2986-3002.	4.7	35
35	Hydrogen Sulfide as Potential Regulatory Gasotransmitter in Arthritic Diseases. International Journal of Molecular Sciences, 2020, 21, 1180.	4.1	33
36	Natural Hydrogen Sulfide Donors from <i>Allium</i> sp. as a Nutraceutical Approach in Type 2 Diabetes Prevention and Therapy. Nutrients, 2019, 11, 1581.	4.1	32

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37	Characterization of toad liver glutathione transferase. BBA - Proteins and Proteomics, 1999, 1431, 189-198.	2.1	31
38	Scaffold-in-Scaffold Potential to Induce Growth and Differentiation of Cardiac Progenitor Cells. Stem Cells and Development, 2017, 26, 1438-1447.	2.1	26
39	Recognition of p63 by the E3 ligase ITCH: Effect of an ectodermal dysplasia mutant. Cell Cycle, 2010, 9, 3730-9.	2.6	25
40	Reticulon RTN1-C_{CT} Peptide: A Potential Nuclease and Inhibitor of Histone Deacetylase Enzymes. Biochemistry, 2010, 49, 252-258.	2.5	18
41	New Consensus pattern in Spike CoV-2: potential implications in coagulation process and cellâ€cell fusion. Cell Death Discovery, 2020, 6, 134.	4.7	18
42	The active essential CFNS3d protein complex.. FEBS Journal, 2006, 273, 3650-3662.	4.7	16
43	Backbone NMR assignment of the 29.6ÂkDa Rhodanese protein from Azotobacter vinelandii. Journal of Biomolecular NMR, 2006, 36, 73-73.	2.8	16
44	The Diatom Staurosirella pinnata for Photoactive Material Production. PLoS ONE, 2016, 11, e0165571.	2.5	16
45	Interaction of DAPI with individual strands of trinucleotide repeats. FEBS Journal, 2003, 270, 4755-4761.	0.2	15
46	Molecular properties of lysozyme-microbubbles: towards the protein and nucleic acid delivery. Amino Acids, 2012, 43, 885-896.	2.7	15
47	Structural Basis for the Interaction of the Myosin Light Chain Mlc1p with the Myosin V Myo2p IQ Motifs. Journal of Biological Chemistry, 2007, 282, 667-679.	3.4	13
48	Trichormus variabilis (Cyanobacteria) Biomass: From the Nutraceutical Products to Novel EPS-Cell/Protein Carrier Systems. Marine Drugs, 2018, 16, 298.	4.6	13
49	Vegetable waste scaffolds for 3D-stem cell proliferating systems and low cost biosensors. Talanta, 2021, 223, 121671.	5.5	13
50	Surface Changes and Role of Buried Water Molecules during the Sulfane Sulfur Transfer in Rhodanese from Azotobacter vinelandii: A Fluorescence Quenching and Nuclear Magnetic Relaxation Dispersion Spectroscopic Study. Biochemistry, 2003, 42, 8550-8557.	2.5	12
51	An Unexpected Risk Factor for Early Structural Deterioration of Biological Aortic Valve Prostheses. Annals of Thoracic Surgery, 2018, 105, 521-527.	1.3	12
52	Amphibian embryo glutathione transferase: amino acid sequence and structural properties. Biochemical Journal, 1997, 322, 679-680.	3.7	11
53	Photo-Polymerization Damage Protection by Hydrogen Sulfide Donors for 3D-Cell Culture Systems Optimization. International Journal of Molecular Sciences, 2021, 22, 6095.	4.1	11
54	p63 threonine phosphorylation signals the interaction with the WW domain of the E3 ligase Itch. Cell Cycle, 2014, 13, 3207-3217.	2.6	10

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55	The mechanisms of humic substances self-assembly with biological molecules: The case study of the prion protein. <i>PLoS ONE</i> , 2017, 12, e0188308.	2.5	10
56	<i>Azotobacter vinelandii</i> rhodanese. <i>FEBS Journal</i> , 2003, 270, 4208-4215.	0.2	9
57	The N-terminal rhodanese domain from <i>Azotobacter vinelandii</i> has a stable and folded structure independently of the C-terminal domain. <i>FEBS Letters</i> , 2004, 577, 403-408.	2.8	9
58	Amino-terminal residues of pNp63, mutated in ectodermal dysplasia, are required for its transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 434-440.	2.1	9
59	Unfolding and inactivation of monomeric superoxide dismutase from <i>E. coli</i> by SDS. <i>International Journal of Biological Macromolecules</i> , 2001, 29, 99-105.	7.5	8
60	Visualizing cell-adsorbed fibrin-based hydrogels using cryogenic scanning electron microscopy and confocal microscopy. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 587-598.	2.7	8
61	Structural rearrangements of the two domains of <i>Azotobacter vinelandii</i> rhodanese upon sulfane sulfur release: essential molecular dynamics, NMR relaxation and deuterium exchange on the uniformly labeled protein. <i>International Journal of Biological Macromolecules</i> , 2003, 33, 193-201.	7.5	7
62	Two distinct calcium-calmodulin interactions with N-terminal regions of the olfactory and rod cyclic nucleotide-gated channels characterized by NMR spectroscopy. <i>FEBS Letters</i> , 2003, 548, 11-16.	2.8	7
63	Post-translational modification of glutamine and lysine residues of HIV-1 aspartyl protease by transglutaminase increases its catalytic activity. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 546-550.	2.1	7
64	Photolithography of 3D Scaffolds for Artificial Tissue. <i>Materials Science Forum</i> , 0, 879, 1519-1523.	0.3	6
65	Glutathione-Allylsulfur Conjugates as Mesenchymal Stem Cells Stimulating Agents for Potential Applications in Tissue Repair. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1638.	4.1	5
66	Amino acid sequence of the major form of toad liver glutathione transferase. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 1286-1290.	2.8	4
67	Letter to the Editor: Assignment of the ¹ H, ¹³ C and ¹⁵ N resonances of Mlc1p from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biomolecular NMR</i> , 2005, 31, 367-368.	2.8	4
68	Purification and characterization of three pi class glutathione transferase from monkey (<i>Macaca</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 <i>Biology</i> , 1996, 114, 377-382.	1.6	3
69	Cloning, expression, and preliminary structural characterization of RTN-1C. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 881-886.	2.1	3
70	A Gel-Based Model of Selective Cell Motility: Implications for Cell Sorting, Diagnostics, and Screening. <i>Advanced Functional Materials</i> , 2020, 30, 1807106.	14.9	3
71	Structural characterization of human glyoxalase II as probed by limited proteolysis. <i>IUBMB Life</i> , 1998, 44, 761-769.	3.4	2
72	A metal-binding site in the RTN1-C protein: new perspectives on the physiological role of a neuronal protein. <i>Metallomics</i> , 2012, 4, 480.	2.4	2

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73	Structure of the cyclic peptide [W8S]contryphan Vn: effect of the tryptophan/serine substitution on transâ€“cis proline isomerization. <i>Amino Acids</i> , 2014, 46, 2841-2853.	2.7	2
74	Purification and characterization of a novel glutathione transferase from <i>Ochrobactrum anthropi</i> . <i>FEMS Microbiology Letters</i> , 1998, 160, 81-86.	1.8	0
75	Photonic Application of Diatom Frustules. <i>Materials Science Forum</i> , 2016, 879, 419-423.	0.3	0
76	A hydrogel reveals an elusive cancer stem cell. <i>Cell Death and Disease</i> , 2021, 12, 415.	6.3	0