

Simona Fermani

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,805
citations

331670

21
h-index

289244

40
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55
all docs

55
docs citations

55
times ranked

2676
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale analysis on otolith structural features reveals differences in ontogenesis and sex in <i>Merluccius merluccius</i> in the western Adriatic Sea. Royal Society Open Science, 2022, 9, .	2.4	2
2	Exploring Coral Calcification by Calcium Carbonate Overgrowth Experiments. Crystal Growth and Design, 2022, 22, 5045-5053.	3.0	4
3	Structural snapshots of nitrosogluthione binding and reactivity underlying S-nitrosylation of photosynthetic GAPDH. Redox Biology, 2022, 54, 102387.	9.0	6
4	Hierarchical chitinous matrices byssus-inspired with mechanical properties tunable by Fe(III) and oxidation. Carbohydrate Polymers, 2021, 251, 116984.	10.2	5
5	Structural and functional insights into nitrosogluthione reductase from <i>Chlamydomonas reinhardtii</i> . Redox Biology, 2021, 38, 101806.	9.0	12
6	Climate variation during the Holocene influenced the skeletal properties of <i>Chamelea gallina</i> shells in the North Adriatic Sea (Italy). PLoS ONE, 2021, 16, e0247590.	2.5	2
7	Calvinâ€“Benson cycle regulation is getting complex. Trends in Plant Science, 2021, 26, 898-912.	8.8	57
8	The skeleton of <i>Balanophyllia</i> coral species suggests adaptive traits linked to the onset of mixotrophy. Science of the Total Environment, 2021, 795, 148778.	8.0	1
9	Wavy graphene sheets from electrochemical sewing of corannulene. Chemical Science, 2021, 12, 8048-8057.	7.4	15
10	Influence of proteins on mechanical properties of a natural chitin-protein composite. Acta Biomaterialia, 2021, 120, 81-90.	8.3	13
11	Coral micro- and macro-morphological skeletal properties in response to life-long acclimatization at CO2 vents in Papua New Guinea. Scientific Reports, 2021, 11, 19927.	3.3	10
12	Cholesterol derivatives make large part of the lipids from epidermal molts of the desert-adapted Gila monster lizard (<i>Heloderma suspectum</i>). Scientific Reports, 2020, 10, 17197.	3.3	0
13	Acidic Monosaccharides become Incorporated into Calcite Single Crystals**. Chemistry - A European Journal, 2020, 26, 16860-16868.	3.3	17
14	High Amino Acid Lattice Loading at Nonambient Conditions Causes Changes in Structure and Expansion Coefficient of Calcite. Chemistry of Materials, 2020, 32, 4205-4212.	6.7	14
15	Synthesis and Adsorbing Properties of Tabular {001} Calcite Crystals. Crystals, 2019, 9, 16.	2.2	9
16	In Vitro Coral Biomineralization under Relevant Aragonite Supersaturation Conditions. Chemistry - A European Journal, 2019, 25, 10616-10624.	3.3	6
17	<i>Arabidopsis</i> and <i>Chlamydomonas</i> phosphoribulokinase crystal structures complete the redox structural proteome of the Calvinâ€“Benson cycle. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8048-8053.	7.1	25
18	Glutathionylation primes soluble glyceraldehyde-3-phosphate dehydrogenase for late collapse into insoluble aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26057-26065.	7.1	39

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19	Structural and Biochemical Insights into the Reactivity of Thioredoxin h1 from <i>Chlamydomonas reinhardtii</i> . <i>Antioxidants</i> , 2019, 8, 10.	5.1	24
20	β -Chitin samples with similar microfibril arrangement change mechanical properties varying the degree of acetylation. <i>Carbohydrate Polymers</i> , 2019, 207, 26-33.	10.2	26
21	Redox Homeostasis in Photosynthetic Organisms: Novel and Established Thiol-Based Molecular Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 155-210.	5.4	95
22	Structure and Function of Stony Coral Intraskelatal Polysaccharides. <i>ACS Omega</i> , 2018, 3, 2895-2901.	3.5	19
23	Aggregation Pathways of Native-Like Ubiquitin Promoted by Single-Point Mutation, Metal Ion Concentration, and Dielectric Constant of the Medium. <i>Chemistry - A European Journal</i> , 2018, 24, 4140-4148.	3.3	1
24	Crystal Structure of Chloroplastic Thioredoxin f2 from <i>Chlamydomonas reinhardtii</i> Reveals Distinct Surface Properties. <i>Antioxidants</i> , 2018, 7, 171.	5.1	16
25	Structural basis for the magnesium-dependent activation of transketolase from <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2132-2145.	2.4	11
26	Ecological relevance of skeletal fatty acid concentration and composition in Mediterranean scleractinian corals. <i>Scientific Reports</i> , 2017, 7, 1929.	3.3	8
27	Shell properties of commercial clam <i>Chamelea gallina</i> are influenced by temperature and solar radiation along a wide latitudinal gradient. <i>Scientific Reports</i> , 2016, 6, 36420.	3.3	22
28	Tuning Cysteine Reactivity and Sulfenic Acid Stability by Protein Microenvironment in Glyceraldehyde-3-Phosphate Dehydrogenases of <i>Arabidopsis thaliana</i> . <i>Antioxidants and Redox Signaling</i> , 2016, 24, 502-517.	5.4	31
29	Gains and losses of coral skeletal porosity changes with ocean acidification acclimation. <i>Nature Communications</i> , 2015, 6, 7785.	12.8	106
30	Coral biomineralization: A focus on intra-skeletal organic matrix and calcification. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 17-26.	5.0	71
31	Unravelling the shape and structural assembly of the photosynthetic GAPDH-CP12-PRK complex from <i>Arabidopsis thaliana</i> by small-angle X-ray scattering analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2372-2385.	2.5	13
32	Thioredoxin-dependent Redox Regulation of Chloroplastic Phosphoglycerate Kinase from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 30012-30024.	3.4	33
33	Biomineralization control related to population density under ocean acidification. <i>Nature Climate Change</i> , 2014, 4, 593-597.	18.8	68
34	High-Resolution Crystal Structure and Redox Properties of Chloroplastic Triosephosphate Isomerase from <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , 2014, 7, 101-120.	8.3	43
35	Customizing Properties of β -Chitin in Squid Pen (<i>Gladius</i>) by Chemical Treatments. <i>Marine Drugs</i> , 2014, 12, 5979-5992.	4.6	31
36	Redox regulation of the Calvin-Benson cycle: something old, something new. <i>Frontiers in Plant Science</i> , 2013, 4, 470.	3.6	355

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37	Conformational Selection of Ubiquitin Quaternary Structures Driven by Zinc Ions. Chemistry - A European Journal, 2013, 19, 15480-15484.	3.3	5
38	Plant cytoplasmic GAPDH: redox post-translational modifications and moonlighting properties. Frontiers in Plant Science, 2013, 4, 450.	3.6	156
39	Conformational Selection and Folding-upon-binding of Intrinsically Disordered Protein CP12 Regulate Photosynthetic Enzymes Assembly. Journal of Biological Chemistry, 2012, 287, 21372-21383.	3.4	57
40	Crystallographic Analysis of Metal Ion Binding to Human Ubiquitin. Chemistry - A European Journal, 2011, 17, 1569-1578.	3.3	25
41	Structure of photosynthetic glyceraldehyde-3-phosphate dehydrogenase (isoform A4) from Arabidopsis thaliana in complex with NAD. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 621-626.	0.7	11
42	Crystallographic Control of the Hydrothermal Conversion of Calcitic Sea Urchin Spine (<i>Paracentrotus lividus</i>) into Apatite. Crystal Growth and Design, 2010, 10, 5227-5232.	3.0	25
43	Structure/function studies on two type 1 ribosome inactivating proteins: Bouganin and lychnin. Journal of Structural Biology, 2009, 168, 278-287.	2.8	19
44	Structural probing of Zn(ii), Cd(ii) and Hg(ii) binding to human ubiquitin. Chemical Communications, 2008, , 5960.	4.1	24
45	Influence on the Formation of Aragonite or Vaterite by Otolith Macromolecules. European Journal of Inorganic Chemistry, 2005, 2005, 162-167.	2.0	86
46	The 1.4 Å structure of dianthin 30 indicates a role of surface potential at the active site of type 1 ribosome inactivating proteins. Journal of Structural Biology, 2005, 149, 204-212.	2.8	21
47	Films of self-assembled purely helical type I collagen molecules. Journal of Materials Chemistry, 2004, 14, 2297.	6.7	44
48	Coenzyme Site-directed Mutants of Photosynthetic A4-GAPDH Show Selectively Reduced NADPH-dependent Catalysis, Similar to Regulatory AB-GAPDH Inhibited by Oxidized Thioredoxin. Journal of Molecular Biology, 2004, 340, 1025-1037.	4.2	40
49	Crystallization and preliminary X-ray diffraction analysis of two ribosome-inactivating proteins: lychnin and dianthin 30. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1227-1229.	2.5	7
50	Polymorphism and architectural crystal assembly of calcium carbonate in biologically inspired polymeric matrices. Dalton Transactions RSC, 2000, , 3983-3987.	2.3	75