Giuseppina Rea

List of Publications by Year
in descending order

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59 papers	2,778 citations	218662 26 h-index	175241 52 g-index
63 all docs	63 docs citations	63 times ranked	3564 citing authors

#	Article	IF	Citations
1	Nano-Enable Materials Promoting Sustainability and Resilience in Modern Agriculture. Nanomaterials, 2021, 11, 2068.	4.1	43
2	Electrochemical and morphological layer-by-layer characterization of electrode interfaces during a label-free impedimetric immunosensor build-up: The case of ochratoxin A. Applied Surface Science, 2021, 567, 150791.	6.1	18
3	Mapping Single Walled Carbon Nanotubes in Photosynthetic Algae by Single-Cell Confocal Raman Microscopy. Materials, 2020, 13, 5121.	2.9	12
4	Dynamics Properties of Photosynthetic Microorganisms Probed by Incoherent Neutron Scattering. Biophysical Journal, 2019, 116, 1759-1768.	0.5	5
5	The NATO project: nanoparticle-based countermeasures for microgravity-induced osteoporosis. Scientific Reports, 2019, 9, 17141.	3.3	19
6	Photosystem-II D1 protein mutants of Chlamydomonas reinhardtii in relation to metabolic rewiring and remodelling of H-bond network at QB site. Scientific Reports, 2018, 8, 14745.	3.3	12
7	Features of cues and processes during chloroplast-mediated retrograde signaling in the alga Chlamydomonas. Plant Science, 2018, 272, 193-206.	3.6	21
8	The plastoquinolâ€“plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. Photosynthesis Research, 2017, 131, 15-30.	2.9	18
9	Heterogeneous and self-organizing mineralization of bone matrix promoted by hydroxyapatite nanoparticles. Nanoscale, 2017, 9, 17274-17283.	5.6	31
10	A novel optical/electrochemical biosensor for real time measurement of physiological effect of astaxanthin on algal photoprotection. Sensors and Actuators B: Chemical, 2017, 241, 993-1001.	7.8	7
11	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. Frontiers in Environmental Science, 2016, 4, .	3.3	365
12	Analytical tools monitoring endocrine disrupting chemicals. TrAC - Trends in Analytical Chemistry, 2016, 80, 555-567.	11.4	53
13	Water Collective Dynamics in Whole Photosynthetic Green Algae as Affected by Protein Single Mutation. Journal of Physical Chemistry Letters, 2016, 7, 2429-2433.	4.6	9
14	Microgravity-driven remodeling of the proteome reveals insights into molecular mechanisms and signal networks involved in response to the space flight environment. Journal of Proteomics, 2016, 137, 3-18.	2.4	40
15	Synthetic biology and biomimetic chemistry as converging technologies fostering a new generation of smart biosensors. Biosensors and Bioelectronics, 2015, 74, 1076-1086.	10.1	48
16	Potential of carbon nanotubes in algal biotechnology. Photosynthesis Research, 2015, 125, 451-471.	2.9	39
17	Application of an optimized electrochemical sensor for monitoring astaxanthin antioxidant properties against lipoperoxidation. New Journal of Chemistry, 2015, 39, 6428-6436.	2.8	7
18	Editorial (Thematic Issue: Sensors and Transducers in the Landscape of Photosynthesis). Current Protein and Peptide Science, 2014, 15, 283-284.	1.4	0

#	Article	IF	Citations
19	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. Current Protein and Peptide Science, 2014, 15, 285-295.	1.4	56
20	Photosynthesis at the forefront of a sustainable life. Frontiers in Chemistry, 2014, 2, 36.	3.6	65
21	Biosensing technology for sustainable food safety. TrAC - Trends in Analytical Chemistry, 2014, 62, 1-10.	11.4	142
22	Design and biophysical characterization of atrazine-sensing peptides mimicking the Chlamydomonas reinhardtii plastoquinone binding niche. Physical Chemistry Chemical Physics, 2013, 15, 13108.	2.8	12
23	Insights into photo-electrochemical sensing of herbicides driven by Chlamydomonas reinhardtii cells. Sensors and Actuators B: Chemical, 2013, 185, 321-330.	7.8	33
24	Healthy and Adverse Effects of Plant-Derived Functional Metabolites: The Need of Revealing their Content and Bioactivity in a Complex Food Matrix. Critical Reviews in Food Science and Nutrition, 2013, 53, 198-213.	10.3	58
25	A Powerful Molecular Engineering Tool Provided Efficient Chlamydomonas Mutants as Bio-Sensing Elements for Herbicides Detection. PLoS ONE, 2013, 8, e61851.	2.5	17
26	Mutations of Photosystem II D1 Protein That Empower Efficient Phenotypes of Chlamydomonas reinhardtii under Extreme Environment in Space. PLoS ONE, 2013, 8, e64352.	2.5	23
27	Continuous Thermal Collapse of the Intrinsically Disordered Protein Tau Is Driven by Its Entropic Flexible Domain. Langmuir, 2012, 28, 13405-13410.	3.5	35
28	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. Microgravity Science and Technology, 2012, 24, 397-409.	1.4	22
29	Integrated plant biotechnologies applied to safer and healthier food production: The Nutra-Snack manufacturing chain. Trends in Food Science and Technology, 2011, 22, 353-366.	15.1	18
30	Space Impact and Technological Transfer of a Biosensor Facility to Earth Application for Environmental Monitoring. Recent Patents on Space Technology, 2011, 1, 18-25.	0.1	2
31	Computational Biology, Protein Engineering, and Biosensor Technology: a Close Cooperation for Herbicides Monitoring. , 2011, , .		6
32	Technological applications of chlorophyll a fluorescence for the assessment of environmental pollutants. Analytical and Bioanalytical Chemistry, 2011, 401, 1139-1151.	3.7	49
33	Directed Evolution and In Silico Analysis of Reaction Centre Proteins Reveal Molecular Signatures of Photosynthesis Adaptation to Radiation Pressure. PLoS ONE, 2011, 6, e16216.	2.5	21
34	Bio-Farms for Nutraceuticals. Advances in Experimental Medicine and Biology, 2010, , .	1.6	12
35	The NUTRA-SNACKS Project: Basic Research and Biotechnological Programs on Nutraceutics. Advances in Experimental Medicine and Biology, 2010, 698, 1-16.	1.6	7
36	Bio-farms for nutraceuticals. Functional food and safety control by biosensors. Preface. Advances in Experimental Medicine and Biology, 2010, 698, vii-viii.	1.6	9

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37	Chlamydomonas reinhardtii genetic variants as probes for fluorescence sensing system in detection of pollutants. Analytical and Bioanalytical Chemistry, 2009, 394, 1081-1087.	3.7	36
38	Structureâ€based design of novel Chlamydomonas reinhardtii D1â€Ð2 photosynthetic proteins for herbicide monitoring. Protein Science, 2009, 18, 2139-2151.	7.6	57
39	The radiation environment observed by Liulin-Photo and R3D-B3 spectrum-dosimeters inside and outside Foton-M3 spacecraft. Radiation Measurements, 2009, 44, 263-272.	1.4	19
40	Optical biosensors for environmental monitoring based on computational and biotechnological tools for engineering the photosynthetic D1 protein of Chlamydomonas reinhardtii. Biosensors and Bioelectronics, 2009, 25, 294-300.	10.1	68
41	Ionizing radiation impacts photochemical quantum yield and oxygen evolution activity of Photosystem II in photosynthetic microorganisms. International Journal of Radiation Biology, 2008, 84, 867-877.	1.8	29
42	Involvement of Polyamine Oxidase in Wound Healing. Plant Physiology, 2008, 146, 162-177.	4.8	112
43	PORTABLE BIO-AMPEROMETER FOR PHOTOACTIVE BIOMATERIAL MONITORING. , 2008, , .		0
44	A new miniaturized multiarray biosensor system for fluorescence detection. Journal of Physics Condensed Matter, 2007, 19, 395006.	1.8	20
45	Characterization of three members of the multigene family coding for isoforms of the chlorophyll-a/b-binding protein Lhcb1 in spinach. Physiologia Plantarum, 2007, 130, 167-176.	5.2	5
46	Functions of amine oxidases in plant development and defence. Trends in Plant Science, 2006, 11, 80-88.	8.8	548
47	Flavin-containing polyamine oxidase is a hydrogen peroxide source in the oxidative response to the protein phosphatase inhibitor cantharidin in Zea mays L.. Journal of Experimental Botany, 2006, 57, 2277-2289.	4.8	55
48	Ectopic Expression of Maize Polyamine Oxidase and Pea Copper Amine Oxidase in the Cell Wall of Tobacco Plants. Plant Physiology, 2004, 134, 1414-1426.	4.8	108
49	Is There an Answer? - Coordinated by Frank Vella. IUBMB Life, 2004, 56, 167-169.	3.4	18
50	Refolding of the Cupressus arizonica major pollen allergen Cup a1.02 overexpressed in Escherichia coli. Protein Expression and Purification, 2004, 37, 419-425.	1.3	5
51	Copper Amine Oxidase Expression in Defense Responses to Wounding and Ascochyta rabiei Invasion. Plant Physiology, 2002, 128, 865-875.	4.8	130
52	Enrichment of a human leukemia cell line (K562) with a plant histaminase. Inflammation Research, 2001, 50, 134-135.	4.0	4
53	De-etiolation causes a phytochrome-mediated increase of polyamine oxidase expression in outer tissues of the maize mesocotyl: a role in the photomodulation of growth and cell wall differentiation. Planta, 1999, 208, 146-154.	3.2	50
54	Maize polyamine oxidase: primary structure from protein and cDNA sequencing. FEBS Letters, 1998, 426, 62-66.	2.8	89

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55	Developmentally and wound-regulated expression of the gene encoding a cell wall copper amine oxidase in chickpea seedlings 1. FEBS Letters, 1998, 437, 177-182.	2.8	59
56	Competitive Inhibition ofLens XulinarisI. Copper Amine Oxidase by Amiloride,p-Aminobenzamidine, Clonidine, 4â€²,6-Diamidino-2-Phenylindole and Gabexate Mesylate: A Comparative Study. Journal of Enzyme Inhibition and Medicinal Chemistry, 1998, 13, 465-471.	0.5	3
57	Spatial distribution and temporal accumulation of mRNA encoding diamine oxidase during lentil (Lens) Tj ETQq1 1 0.784314 rgBT /Overl	3.6	24
58	Diamino oxidase activity and mRNA accumulation of its encoding gene during lentil (<i>Lens) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 129, 1022-1023.	0.0	0
59	BONE REMODELLING STUDY USING STRONTIUM ENRICHED HYDROXYAPATITE NANOPARTICLES. Frontiers in Physiology, 0, 9, .	2.8	1