

Giuseppina Rea

List of Publications by Year in descending order

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59

papers

2,778

citations

218677

26

h-index

175258

52

g-index

63

all docs

63

docs citations

63

times ranked

3564

citing authors

#	ARTICLE	IF	CITATIONS
1	Functions of amine oxidases in plant development and defence. Trends in Plant Science, 2006, 11, 80-88.	8.8	548
2	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. Frontiers in Environmental Science, 2016, 4, .	3.3	365
3	Biosensing technology for sustainable food safety. TrAC - Trends in Analytical Chemistry, 2014, 62, 1-10.	11.4	142
4	Copper Amine Oxidase Expression in Defense Responses to Wounding and Ascochyta rabiei Invasion. Plant Physiology, 2002, 128, 865-875.	4.8	130
5	Involvement of Polyamine Oxidase in Wound Healing. Plant Physiology, 2008, 146, 162-177.	4.8	112
6	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
7	Maize polyamine oxidase: primary structure from protein and cDNA sequencing. FEBS Letters, 1998, 426, 62-66.	2.8	89
8	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
9	Photosynthesis at the forefront of a sustainable life. Frontiers in Chemistry, 2014, 2, 36.	3.6	65
10	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
11	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
12	Structure-based design of novel <i>Chlamydomonas reinhardtii</i> D1-D2 photosynthetic proteins for herbicide monitoring. Protein Science, 2009, 18, 2139-2151.	7.6	57
13	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. Current Protein and Peptide Science, 2014, 15, 285-295.	1.4	56
14	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
15	Analytical tools monitoring endocrine disrupting chemicals. TrAC - Trends in Analytical Chemistry, 2016, 80, 555-567.	11.4	53
16	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
17	Technological applications of chlorophyll a fluorescence for the assessment of environmental pollutants. Analytical and Bioanalytical Chemistry, 2011, 401, 1139-1151.	3.7	49
18	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

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19	Nano-Enable Materials Promoting Sustainability and Resilience in Modern Agriculture. <i>Nanomaterials</i> , 2021, 11, 2068.	4.1	43
20	Microgravity-driven remodeling of the proteome reveals insights into molecular mechanisms and signal networks involved in response to the space flight environment. <i>Journal of Proteomics</i> , 2016, 137, 3-18.	2.4	40
21	Potential of carbon nanotubes in algal biotechnology. <i>Photosynthesis Research</i> , 2015, 125, 451-471.	2.9	39
22	<i>Chlamydomonas reinhardtii</i> genetic variants as probes for fluorescence sensing system in detection of pollutants. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1081-1087.	3.7	36
23	Continuous Thermal Collapse of the Intrinsically Disordered Protein Tau Is Driven by Its Entropic Flexible Domain. <i>Langmuir</i> , 2012, 28, 13405-13410.	3.5	35
24	Insights into photo-electrochemical sensing of herbicides driven by <i>Chlamydomonas reinhardtii</i> cells. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 321-330.	7.8	33
25	Heterogeneous and self-organizing mineralization of bone matrix promoted by hydroxyapatite nanoparticles. <i>Nanoscale</i> , 2017, 9, 17274-17283.	5.6	31
26	Ionizing radiation impacts photochemical quantum yield and oxygen evolution activity of Photosystem II in photosynthetic microorganisms. <i>International Journal of Radiation Biology</i> , 2008, 84, 867-877.	1.8	29
27	Spatial distribution and temporal accumulation of mRNA encoding diamine oxidase during lentil (Lens) Tj ETQq1 1 0.784314 15 BT /Over	3.6	29
28	Mutations of Photosystem II D1 Protein That Empower Efficient Phenotypes of <i>Chlamydomonas reinhardtii</i> under Extreme Environment in Space. <i>PLoS ONE</i> , 2013, 8, e64352.	2.5	23
29	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012, 24, 397-409.	1.4	22
30	Features of cues and processes during chloroplast-mediated retrograde signaling in the alga <i>Chlamydomonas</i> . <i>Plant Science</i> , 2018, 272, 193-206.	3.6	21
31	Directed Evolution and In Silico Analysis of Reaction Centre Proteins Reveal Molecular Signatures of Photosynthesis Adaptation to Radiation Pressure. <i>PLoS ONE</i> , 2011, 6, e16216.	2.5	21
32	A new miniaturized multiarray biosensor system for fluorescence detection. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395006.	1.8	20
33	The radiation environment observed by Liulin-Photo and R3D-B3 spectrum-dosimeters inside and outside Foton-M3 spacecraft. <i>Radiation Measurements</i> , 2009, 44, 263-272.	1.4	19
34	The NATO project: nanoparticle-based countermeasures for microgravity-induced osteoporosis. <i>Scientific Reports</i> , 2019, 9, 17141.	3.3	19
35	Is There an Answer? - Coordinated by Frank Vella. <i>IUBMB Life</i> , 2004, 56, 167-169.	3.4	18
36	Integrated plant biotechnologies applied to safer and healthier food production: The Nutra-Snack manufacturing chain. <i>Trends in Food Science and Technology</i> , 2011, 22, 353-366.	15.1	18

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37	The plastoquinolâ€“plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. <i>Photosynthesis Research</i> , 2017, 131, 15-30.	2.9	18
38	Electrochemical and morphological layer-by-layer characterization of electrode interfaces during a label-free impedimetric immunosensor build-up: The case of ochratoxin A. <i>Applied Surface Science</i> , 2021, 567, 150791.	6.1	18
39	A Powerful Molecular Engineering Tool Provided Efficient <i>Chlamydomonas</i> Mutants as Bio-Sensing Elements for Herbicides Detection. <i>PLoS ONE</i> , 2013, 8, e61851.	2.5	17
40	Bio-Farms for Nutraceuticals. <i>Advances in Experimental Medicine and Biology</i> , 2010, , .	1.6	12
41	Design and biophysical characterization of atrazine-sensing peptides mimicking the <i>Chlamydomonas reinhardtii</i> plastoquinone binding niche. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13108.	2.8	12
42	Photosystem-II D1 protein mutants of <i>Chlamydomonas reinhardtii</i> in relation to metabolic rewiring and remodelling of H-bond network at QB site. <i>Scientific Reports</i> , 2018, 8, 14745.	3.3	12
43	Mapping Single Walled Carbon Nanotubes in Photosynthetic Algae by Single-Cell Confocal Raman Microscopy. <i>Materials</i> , 2020, 13, 5121.	2.9	12
44	Water Collective Dynamics in Whole Photosynthetic Green Algae as Affected by Protein Single Mutation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2429-2433.	4.6	9
45	Bio-farms for nutraceuticals. Functional food and safety control by biosensors. Preface. <i>Advances in Experimental Medicine and Biology</i> , 2010, 698, vii-viii.	1.6	9
46	Application of an optimized electrochemical sensor for monitoring astaxanthin antioxidant properties against lipoperoxidation. <i>New Journal of Chemistry</i> , 2015, 39, 6428-6436.	2.8	7
47	A novel optical/electrochemical biosensor for real time measurement of physiological effect of astaxanthin on algal photoprotection. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 993-1001.	7.8	7
48	The NUTRA-SNACKS Project: Basic Research and Biotechnological Programs on Nutraceuticals. <i>Advances in Experimental Medicine and Biology</i> , 2010, 698, 1-16.	1.6	7
49	Computational Biology, Protein Engineering, and Biosensor Technology: a Close Cooperation for Herbicides Monitoring. , 2011, , .		6
50	Refolding of the <i>Cupressus arizonica</i> major pollen allergen Cup a1.02 overexpressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2004, 37, 419-425.	1.3	5
51	Characterization of three members of the multigene family coding for isoforms of the chlorophyll-a/b-binding protein Lhcb1 in spinach. <i>Physiologia Plantarum</i> , 2007, 130, 167-176.	5.2	5
52	Dynamics Properties of Photosynthetic Microorganisms Probed by Incoherent Neutron Scattering. <i>Biophysical Journal</i> , 2019, 116, 1759-1768.	0.5	5
53	Enrichment of a human leukemia cell line (K562) with a plant histaminase. <i>Inflammation Research</i> , 2001, 50, 134-135.	4.0	4
54	Competitive Inhibition of Lens Xulinaris. Copper Amine Oxidase by Amiloride, p-Aminobenzamidine, Clonidine, 4â€“2,6-Diamidino-2-Phenylindole and Gabexate Mesylate: A Comparative Study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1998, 13, 465-471.	0.5	3

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55	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
56	BONE REMODELLING STUDY USING STRONTIUM ENRICHED HYDROXYAPATITE NANOPARTICLES. Frontiers in Physiology, 0, 9, .	2.8	1
57	Diamino oxidase activity and mRNA accumulation of its encoding gene during lentil (<i>Lens) Tj ETQq1 1 0.784314 rgBT /Overlock 10 129, 1022-1023.	0.0	0
58	Editorial (Thematic Issue: Sensors and Transducers in the Landscape of Photosynthesis). Current Protein and Peptide Science, 2014, 15, 283-284.	1.4	0
59	PORTABLE BIO-AMPEROMETER FOR PHOTOACTIVE BIOMATERIAL MONITORING. , 2008, , .		0