

# Giuseppina Rea

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1126717/giuseppina-rea-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57  
papers

2,202  
citations

24  
h-index

46  
g-index

63  
ext. papers

2,498  
ext. citations

5.5  
avg. IF

4.59  
L-index

#	Paper	IF	Citations
57	Functions of amine oxidases in plant development and defence. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 80-8	13.1	465
56	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	253
55	Biosensing technology for sustainable food safety. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2014</b> , 62, 1-10	14.6	113
54	Copper amine oxidase expression in defense responses to wounding and <i>Ascochyta rabiei</i> invasion. <i>Plant Physiology</i> , <b>2002</b> , 128, 865-75	6.6	113
53	Involvement of polyamine oxidase in wound healing. <i>Plant Physiology</i> , <b>2008</b> , 146, 162-77	6.6	97
52	Ectopic expression of maize polyamine oxidase and pea copper amine oxidase in the cell wall of tobacco plants. <i>Plant Physiology</i> , <b>2004</b> , 134, 1414-26	6.6	90
51	Maize polyamine oxidase: primary structure from protein and cDNA sequencing. <i>FEBS Letters</i> , <b>1998</b> , 426, 62-6	3.8	80
50	Optical biosensors for environmental monitoring based on computational and biotechnological tools for engineering the photosynthetic D1 protein of <i>Chlamydomonas reinhardtii</i> . <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 25, 294-300	11.8	62
49	Developmentally and wound-regulated expression of the gene encoding a cell wall copper amine oxidase in chickpea seedlings. <i>FEBS Letters</i> , <b>1998</b> , 437, 177-82	3.8	50
48	Photosynthesis at the forefront of a sustainable life. <i>Frontiers in Chemistry</i> , <b>2014</b> , 2, 36	5	48
47	Healthy and adverse effects of plant-derived functional metabolites: the need of revealing their content and bioactivity in a complex food matrix. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2013</b> , 53, 198-213	11.5	47
46	Flavin-containing polyamine oxidase is a hydrogen peroxide source in the oxidative response to the protein phosphatase inhibitor cantharidin in <i>Zea mays</i> L. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 2277-89	7	47
45	Structure-based design of novel <i>Chlamydomonas reinhardtii</i> D1-D2 photosynthetic proteins for herbicide monitoring. <i>Protein Science</i> , <b>2009</b> , 18, 2139-51	6.3	46
44	Analytical tools monitoring endocrine disrupting chemicals. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 80, 555-567	14.6	45
43	Synthetic biology and biomimetic chemistry as converging technologies fostering a new generation of smart biosensors. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 1076-86	11.8	42
42	Structure/function/dynamics of photosystem II plastoquinone binding sites. <i>Current Protein and Peptide Science</i> , <b>2014</b> , 15, 285-95	2.8	40
41	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. <i>Planta</i> , <b>1999</b> , 208, 146-154	4.7	40

40	Technological applications of chlorophyll a fluorescence for the assessment of environmental pollutants. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 1139-51	4.4	39
39	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> , <b>2016</b> , 137, 3-18	3.9	30
38	<i>Chlamydomonas reinhardtii</i> genetic variants as probes for fluorescence sensing system in detection of pollutants. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1081-7	4.4	30
37	Continuous thermal collapse of the intrinsically disordered protein tau is driven by its entropic flexible domain. <i>Langmuir</i> , <b>2012</b> , 28, 13405-10	4	29
36	Potential of carbon nanotubes in algal biotechnology. <i>Photosynthesis Research</i> , <b>2015</b> , 125, 451-71	3.7	27
35	Insights into photo-electrochemical sensing of herbicides driven by <i>Chlamydomonas reinhardtii</i> cells. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 321-330	8.5	27
34	Spatial distribution and temporal accumulation of mRNA encoding diamine oxidase during lentil ( <i>Lens culinaris Medicus</i> ) seedling development. <i>Plant Science</i> , <b>1996</b> , 119, 103-113	5.3	24
33	Heterogeneous and self-organizing mineralization of bone matrix promoted by hydroxyapatite nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 17274-17283	7.7	23
32	Ionizing radiation impacts photochemical quantum yield and oxygen evolution activity of Photosystem II in photosynthetic microorganisms. <i>International Journal of Radiation Biology</i> , <b>2008</b> , 84, 867-77	2.9	21
31	The radiation environment observed by Liulin-Photo and R3D-B3 spectrum-dosimeters inside and outside Foton-M3 spacecraft. <i>Radiation Measurements</i> , <b>2009</b> , 44, 263-272	1.5	19
30	Directed evolution and in silico analysis of reaction centre proteins reveal molecular signatures of photosynthesis adaptation to radiation pressure. <i>PLoS ONE</i> , <b>2011</b> , 6, e16216	3.7	19
29	Mutations of photosystem II D1 protein that empower efficient phenotypes of <i>Chlamydomonas reinhardtii</i> under extreme environment in space. <i>PLoS ONE</i> , <b>2013</b> , 8, e64352	3.7	19
28	A new miniaturized multiarray biosensor system for fluorescence detection. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 395006	1.8	18
27	Features of cues and processes during chloroplast-mediated retrograde signaling in the alga <i>Chlamydomonas</i> . <i>Plant Science</i> , <b>2018</b> , 272, 193-206	5.3	18
26	Nano-Enable Materials Promoting Sustainability and Resilience in Modern Agriculture. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	18
25	A powerful molecular engineering tool provided efficient <i>Chlamydomonas</i> mutants as bio-sensing elements for herbicides detection. <i>PLoS ONE</i> , <b>2013</b> , 8, e61851	3.7	17
24	Integrated plant biotechnologies applied to safer and healthier food production: The Nutra-Snack manufacturing chain. <i>Trends in Food Science and Technology</i> , <b>2011</b> , 22, 353-366	15.3	16
23	Question: What is the biological function of the polyamines?. <i>IUBMB Life</i> , <b>2004</b> , 56, 167-9	4.7	15

22	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , <b>2012</b> , 24, 397-409	1.6	14
21	Design and biophysical characterization of atrazine-sensing peptides mimicking the <i>Chlamydomonas reinhardtii</i> plastoquinone binding niche. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 13108-15	3.6	12
20	The plastoquinol-plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. <i>Photosynthesis Research</i> , <b>2017</b> , 131, 15-30	3.7	11
19	Bio-farms for nutraceuticals. Functional food and safety control by biosensors. Preface. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 698, vii-viii	3.6	9
18	Water Collective Dynamics in Whole Photosynthetic Green Algae as Affected by Protein Single Mutation. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2429-33	6.4	8
17	Bio-Farms for Nutraceuticals. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> ,	3.6	7
16	The NATO project: nanoparticle-based countermeasures for microgravity-induced osteoporosis. <i>Scientific Reports</i> , <b>2019</b> , 9, 17141	4.9	7
15	Photosystem-II D1 protein mutants of <i>Chlamydomonas reinhardtii</i> in relation to metabolic rewiring and remodelling of H-bond network at Q site. <i>Scientific Reports</i> , <b>2018</b> , 8, 14745	4.9	6
14	Dynamics Properties of Photosynthetic Microorganisms Probed by Incoherent Neutron Scattering. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1759-1768	2.9	4
13	Application of an optimized electrochemical sensor for monitoring astaxanthin antioxidant properties against lipoperoxidation. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 6428-6436	3.6	4
12	A novel optical/electrochemical biosensor for real time measurement of physiological effect of astaxanthin on algal photoprotection. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 993-1001	8.5	4
11	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> , <b>2007</b> , 130, 167-176	4.6	4
10	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> , <b>2004</b> , 37, 419-25	2	4
9	Mapping Single Walled Carbon Nanotubes in Photosynthetic Algae by Single-Cell Confocal Raman Microscopy. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
8	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> , <b>2021</b> , 567, 150791	6.7	4
7	The NUTRA-SNACKS project: basic research and biotechnological programs on nutraceuticals. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 698, 1-16	3.6	4
6	Computational Biology, Protein Engineering, and Biosensor Technology: a Close Cooperation for Herbicides Monitoring <b>2011</b> ,		3
5	Competitive inhibition of <i>Lens culinaris</i> L. copper amine oxidase by amiloride, p-aminobenzamidine, clonidine, 4T6-diamidino-2-phenylindole and gabexate mesylate: a comparative study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>1998</b> , 13, 465-71		3

- 4 Application of Biosensors for Food Analysis **2016**, 395-434 2
- 3 Space Impact and Technological Transfer of a Biosensor Facility to Earth Application for Environmental Monitoring. *Recent Patents on Space Technology*, **2011**, 1, 18-25 1
- 2 Diamino oxidase activity and mRNA accumulation of its encoding gene during lentil (*Lens culinaris Medicus*) seedling development. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 1022-1023
- 1 Enrichment of a human leukemia cell line (K562) with a plant histaminase. *Inflammation Research*, **2001**, 50 Suppl 2, S134-5 7.2