

# Giuseppina Rea

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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 <i>Ascochyta rabiei</i> 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 <i>Chlamydomonas reinhardtii</i> . 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 <i>Zea mays</i> 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 ( <i>Lens</i> ) Tj ETQq1 1 0.784314 1.56 BT /Ov   | 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 | BLOKIS: 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 <i>Lens Xulinaris</i> . 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<br>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         |