

# Amina Antonacci

## List of Publications by Year in descending order

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43  
papers

1,195  
citations

394421

19  
h-index

395702

33  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured (Bio)sensors for smart agriculture. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 95-103.	11.4	115
2	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> , 2009, 25, 294-300.	10.1	68
3	Photosynthesis at the forefront of a sustainable life. <i>Frontiers in Chemistry</i> , 2014, 2, 36.	3.6	65
4	Green nanomaterials fostering agrifood sustainability. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115840.	11.4	62
5	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> , 2013, 53, 198-213.	10.3	58
6	Structure-based design of novel <i>Chlamydomonas reinhardtii</i> D1 photosynthetic proteins for herbicide monitoring. <i>Protein Science</i> , 2009, 18, 2139-2151.	7.6	57
7	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. <i>Current Protein and Peptide Science</i> , 2014, 15, 285-295.	1.4	56
8	Analytical tools monitoring endocrine disrupting chemicals. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 555-567.	11.4	53
9	Synthetic biology and biomimetic chemistry as converging technologies fostering a new generation of smart biosensors. <i>Biosensors and Bioelectronics</i> , 2015, 74, 1076-1086.	10.1	48
10	Biotechnological Advances in the Design of Algae-Based Biosensors. <i>Trends in Biotechnology</i> , 2020, 38, 334-347.	9.3	46
11	The convergence of forefront technologies in the design of laccase-based biosensors – An update. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 119, 115615.	11.4	45
12	An eco-designed paper-based algal biosensor for nanoformulated herbicide optical detection. <i>Journal of Hazardous Materials</i> , 2019, 373, 483-492.	12.4	45
13	Isothermal amplification-assisted diagnostics for COVID-19. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114101.	10.1	40
14	Electrospray deposition as a smart technique for laccase immobilisation on carbon black-nanomodified screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2020, 163, 112299.	10.1	35
15	Carbon black nanoparticles to sense algae oxygen evolution for herbicides detection: Atrazine as a case study. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112203.	10.1	30
16	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
17	What makes nanotechnologies applied to agriculture green?. <i>Nano Today</i> , 2022, 43, 101389.	11.9	23
18	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012, 24, 397-409.	1.4	22

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Emerging technologies in the design of peptide nucleic acids (PNAs) based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116062.	11.4	19
22	Paper-Based Electrochemical Devices for the Pharmaceutical Field: State of the Art and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 339.	4.1	19
23	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
24	The plastoquinolâ€plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. <i>Photosynthesis Research</i> , 2017, 131, 15-30.	2.9	18
25	A dual electro-optical biosensor based on <i>Chlamydomonas reinhardtii</i> immobilised on paper-based nanomodified screen-printed electrodes for herbicide monitoring. <i>Journal of Nanobiotechnology</i> , 2021, 19, 145.	9.1	18
26	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
27	Photosynthesis-based hybrid nanostructures: Electrochemical sensors and photovoltaic cells as case studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 100-109.	11.4	17
28	A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 658-665.	7.8	14
29	Photoautotrophsâ€™Bacteria Co-Cultures: Advances, Challenges and Applications. <i>Materials</i> , 2021, 14, 3027.	2.9	14
30	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
31	Commercially Available (Bio)sensors in the Agrifood Sector. <i>Comprehensive Analytical Chemistry</i> , 2016, 74, 315-340.	1.3	12
32	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
33	Multi-potential biomarkers for seafood quality assessment: Global wide implication for human health monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116056.	11.4	11
34	High-Tech and Nature-Made Nanocomposites and Their Applications in the Field of Sensors and Biosensors for Gas Detection. <i>Biosensors</i> , 2020, 10, 176.	4.7	11
35	State of the Art on the SARS-CoV-2 Toolkit for Antigen Detection: One Year Later. <i>Biosensors</i> , 2021, 11, 310.	4.7	11
36	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

#	ARTICLE	IF	CITATIONS
37	Computational Biology, Protein Engineering, and Biosensor Technology: a Close Cooperation for Herbicides Monitoring. , 2011, , .		6
38	Novel atrazine-binding biomimetics inspired to the D1 protein from the photosystem II of Chlamydomonas reinhardtii. International Journal of Biological Macromolecules, 2020, 163, 817-823.	7.5	6
39	Nanobiosensors for Bioclinical Applications: Pros and Cons. Nanotechnology in the Life Sciences, 2020, , 117-149.	0.6	6
40	A Proof-of-Concept Electrochemical Cytosensor Based on Chlamydomonas reinhardtii Functionalized Carbon Black Screen-Printed Electrodes: Detection of Escherichia coli in Wastewater as a Case Study. Biosensors, 2022, 12, 401.	4.7	4
41	Enhancing resistance of Chlamydomonas reinhardtii to oxidative stress fusing constructs of heterologous antioxidant peptides into D1 protein. Algal Research, 2021, 54, 102184.	4.6	2
42	Photosynthesis-based biosensors for environmental analysis of herbicides. Case Studies in Chemical and Environmental Engineering, 2021, , 100157.	6.1	2
43	Quantum dots functionalised artificial peptides bioinspired to the D1 protein from the Photosystem II of Chlamydomonas reinhardtii for endocrine disruptor optosensing. Talanta, 2021, 224, 121854.	5.5	1