

Gea Guerriero

List of Publications by Year in Descending Order

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

118
papers

3,618
citations

29
h-index

57
g-index

126
ext. papers

4,787
ext. citations

5.4
avg, IF

5.97
L-index

#	Paper	IF	Citations
118	Impact of <i>Pseudomonas</i> sp. SVB-B33 on Stress- and Cell Wall-Related Genes in Roots and Leaves of Hemp under Salinity. <i>Horticulturae</i> , 2022 , 8, 336	2.5	1
117	Gene expression and metabolite analysis in barley inoculated with net blotch fungus and plant growth-promoting rhizobacteria. <i>Plant Physiology and Biochemistry</i> , 2021 , 168, 488-500	5.4	1
116	High Frequency Direct Organogenesis, Genetic Homogeneity, Chemical Characterization and Leaf Ultra-Structural Study of Regenerants in <i>Diplocyclos palmatus</i> (L.) C. Jeffrey. <i>Agronomy</i> , 2021 , 11, 2164	3.6	1
115	Silicon reduces cadmium absorption and increases root-to-shoot translocation without impacting growth in young plants of hemp (<i>Cannabis sativa</i> L.) on a short-term basis. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 37963-37977	5.1	2
114	Physico-chemical properties and toxicological effects on plant and algal models of carbon nanosheets from a nettle fibre clone. <i>Scientific Reports</i> , 2021 , 11, 6945	4.9	21
113	Impact of cadmium and zinc on proteins and cell wall-related gene expression in young stems of hemp (<i>Cannabis sativa</i> L.) and influence of exogenous silicon. <i>Environmental and Experimental Botany</i> , 2021 , 183, 104363	5.9	5
112	Immunohistochemical analyses on two distinct internodes of stinging nettle show different distribution of polysaccharides and proteins in the cell walls of bast fibers. <i>Protoplasma</i> , 2021 , 1	3.4	2
111	Plant Extracellular Vesicles and Nanovesicles: Focus on Secondary Metabolites, Proteins and Lipids with Perspectives on Their Potential and Sources. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	18
110	: Taxonomy, Morphology, Interaction With Barley, and Mode of Control. <i>Frontiers in Plant Science</i> , 2021 , 12, 614951	6.2	4
109	Molecular insights into plant desiccation tolerance: transcriptomics, proteomics and targeted metabolite profiling in <i>Craterostigma plantagineum</i> . <i>Plant Journal</i> , 2021 , 107, 377-398	6.9	5
108	Silicon-induced mitigatory effects in salt-stressed hemp leaves. <i>Physiologia Plantarum</i> , 2021 , 171, 476-482	6.6	8
107	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. <i>Journal of Experimental Botany</i> , 2021 , 72, 4457-4471	7	20
106	Histochemical Techniques in Plant Science: More Than Meets the Eye. <i>Plant and Cell Physiology</i> , 2021 , 62, 1509-1527	4.9	2
105	Phyto-Courier, a Silicon Particle-Based Nano-biostimulant: Evidence from Exposed to Salinity. <i>ACS Nano</i> , 2021 , 15, 3061-3069	16.7	6
104	Molecular and Biochemical Insights Into Early Responses of Hemp to Cd and Zn Exposure and the Potential Effect of Si on Stress Response. <i>Frontiers in Plant Science</i> , 2021 , 12, 711853	6.2	3
103	Computational Analysis of Thermal Adaptation in Extremophilic Chitinases: The Achilles' Heel in Protein Structure and Industrial Utilization. <i>Molecules</i> , 2021 , 26,	4.8	2
102	Molecular investigation of Tuscan sweet cherries sampled over three years: gene expression analysis coupled to metabolomics and proteomics. <i>Horticulture Research</i> , 2021 , 8, 12	7.7	2

101	Controlled nitrogen atmosphere for the preservation of functional molecules during silos storage: A case study using old Italian wheat cultivars. <i>Journal of Stored Products Research</i> , 2020 , 88, 101638	2.5	6
100	Expression Analysis of Cell Wall-Related Genes in the Plant Pathogenic Fungus. <i>Genes</i> , 2020 , 11,	4.2	5
99	Visualising Silicon in Plants: Histochemistry, Silica Sculptures and Elemental Imaging. <i>Cells</i> , 2020 , 9,	7.9	9
98	Roles of Silicon in Alleviating Zinc Stress in Plants 2020 , 355-366		1
97	How is silicic acid transported in plants?. <i>Silicon</i> , 2020 , 12, 2641-2645	2.4	14
96	Fractal structures and silica films formed by the Treignac water on inert and biological surfaces. <i>Nanoscale Advances</i> , 2020 , 2, 3821-3828	5.1	1
95	A Review on the Beneficial Role of Silicon against Salinity in Non-Accumulator Crops: Tomato as a Model. <i>Biomolecules</i> , 2020 , 10,	5.9	26
94	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. <i>Scientific Reports</i> , 2020 , 10, 14078	4.9	11
93	Long-Term Cd Exposure Alters the Metabolite Profile in Stem Tissue of. <i>Cells</i> , 2020 , 9,	7.9	3
92	The Roots of Plant Frost Hardiness and Tolerance. <i>Plant and Cell Physiology</i> , 2020 , 61, 3-20	4.9	29
91	Molecular Investigation of Metalloid Stress Response in Higher Plants 2020 , 213-230		1
90	The Use of Silicon in Stressed Agriculture Management 2020 , 381-431		5
89	The Dynamics of the Cell Wall Proteome of Developing Alfalfa Stems. <i>Biology</i> , 2019 , 8,	4.9	4
88	Selection of Appropriate Reference Genes for Gene Expression Analysis under Abiotic Stresses in. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
87	Does long-term cadmium exposure influence the composition of pectic polysaccharides in the cell wall of <i>Medicago sativa</i> stems?. <i>BMC Plant Biology</i> , 2019 , 19, 271	5.3	36
86	Identification of the aquaporin gene family in <i>Cannabis sativa</i> and evidence for the accumulation of silicon in its tissues. <i>Plant Science</i> , 2019 , 287, 110167	5.3	22
85	Tuscan Varieties of Sweet Cherry Are Rich Sources of Ursolic and Oleanolic Acid: Protein Modeling Coupled to Targeted Gene Expression and Metabolite Analyses. <i>Molecules</i> , 2019 , 24,	4.8	6
84	A reappraisal of biological silicification in plants?. <i>New Phytologist</i> , 2019 , 223, 511-513	9.8	5

83	Impact of jasmonic acid on lignification in the hemp hypocotyl. <i>Plant Signaling and Behavior</i> , 2019 , 14, 1592641	2.5	1
82	Identification of the laccase-like multicopper oxidase gene family of sweet cherry (<i>Prunus avium</i> L.) and expression analysis in six ancient Tuscan varieties. <i>Scientific Reports</i> , 2019 , 9, 3557	4.9	8
81	On a Cold Night: Transcriptomics of Grapevine Flower Unveils Signal Transduction and Impacted Metabolism. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
80	Nutraceutical Characteristics of Ancient x Borkh. Fruits Recovered across Siena in Tuscany. <i>Medicines (Basel, Switzerland)</i> , 2019 , 6,	4.1	5
79	Cold stress affects cell wall deposition and growth pattern in tobacco pollen tubes. <i>Plant Science</i> , 2019 , 283, 329-342	5.3	13
78	A Molecular Blueprint of Lignin Repression. <i>Trends in Plant Science</i> , 2019 , 24, 1052-1064	13.1	9
77	Cell wall composition and transcriptomics in stem tissues of stinging nettle (L.): Spotlight on a neglected fibre crop. <i>Plant Direct</i> , 2019 , 3, e00151	3.3	7
76	Distribution of cell-wall polysaccharides and proteins during growth of the hemp hypocotyl. <i>Planta</i> , 2019 , 250, 1539-1556	4.7	10
75	Identification of Jasmonic Acid Biosynthetic Genes in Sweet Cherry and Expression Analysis in Four Ancient Varieties from Tuscany. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	4
74	Impact of Heavy Metals on Non-food Herbaceous Crops and Prophylactic Role of Si 2019 , 303-321		0
73	One for All and All for One! Increased Plant Heavy Metal Tolerance by Growth-Promoting Microbes: A Metabolomics Standpoint 2019 , 39-54		0
72	Plant Fibers and Phenolics: A Review on Their Synthesis, Analysis and Combined Use for Biomaterials with New Properties. <i>Fibers</i> , 2019 , 7, 80	3.7	3
71	Site-directed chemically-modified magnetic enzymes: fabrication, improvements, biotechnological applications and future prospects. <i>Biotechnology Advances</i> , 2019 , 37, 357-381	17.8	11
70	Silicic acid: The omniscient molecule. <i>Science of the Total Environment</i> , 2019 , 665, 432-437	10.2	17
69	transcriptome assembly of textile hemp from datasets on hypocotyls and adult plants. <i>Data in Brief</i> , 2019 , 27, 104790	1.2	1
68	Insights into Lignan Composition and Biosynthesis in Stinging Nettle (L.). <i>Molecules</i> , 2019 , 24,	4.8	3
67	Impact of Nitrogen Nutrition on : An Update on the Current Knowledge and Future Prospects. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
66	Reactive oxygen species and heavy metal stress in plants: Impact on the cell wall and secondary metabolism. <i>Environmental and Experimental Botany</i> , 2019 , 161, 98-106	5.9	151

65	Functional Molecules in Locally-Adapted Crops: The Case Study of Tomatoes, Onions, and Sweet Cherry Fruits From Tuscany in Italy. <i>Frontiers in Plant Science</i> , 2018 , 9, 1983	6.2	15
64	Rough and tough. How does silicic acid protect horsetail from fungal infection?. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 47, 45-52	4.1	17
63	Interaction of Nano-sized Nutrients with Plant Biomass: A Review 2018 , 135-149		3
62	Sucrose synthase gene expression analysis in the fibre nettle (<i>Urtica dioica</i> L.) cultivar 'lone 13' <i>Industrial Crops and Products</i> , 2018 , 123, 315-322	5.9	8
61	Expression Analysis of Cell Wall-Related Genes in <i>Cannabis sativa</i> : The In and Out of Hemp Stem Tissue Development. <i>Fibers</i> , 2018 , 6, 27	3.7	3
60	Production of Plant Secondary Metabolites: Examples, Tips and Suggestions for Biotechnologists. <i>Genes</i> , 2018 , 9,	4.2	116
59	Novel Insights from Comparative In Silico Analysis of Green Microalgal Cellulases. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
58	The Iceman's Last Meal Consisted of Fat, Wild Meat, and Cereals. <i>Current Biology</i> , 2018 , 28, 2348-2355.e6.3	6.3	25
57	Insights into the molecular regulation of monolignol-derived product biosynthesis in the growing hemp hypocotyl. <i>BMC Plant Biology</i> , 2018 , 18, 1	5.3	147
56	Long-term cadmium exposure influences the abundance of proteins that impact the cell wall structure in <i>Medicago sativa</i> stems. <i>Plant Biology</i> , 2018 , 20, 1023-1035	3.7	36
55	Is callose required for silicification in plants?. <i>Biology Letters</i> , 2018 , 14,	3.6	12
54	Agrobiotechnology Goes Wild: Ancient Local Varieties as Sources of Bioactives. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	37
53	Tracing the role of plant proteins in the response to metal toxicity: a comprehensive review. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1507401	2.5	25
52	Jasmonic acid to boost secondary growth in hemp hypocotyl. <i>Planta</i> , 2018 , 248, 1029-1036	4.7	10
51	Deletion of the celA gene in <i>Aspergillus nidulans</i> triggers overexpression of secondary metabolite biosynthetic genes. <i>Scientific Reports</i> , 2017 , 7, 5978	4.9	6
50	Bast fibre formation: insights from Next-Generation Sequencing. <i>Procedia Engineering</i> , 2017 , 200, 229-235		10
49	Transcriptomic profiling of hemp bast fibres at different developmental stages. <i>Scientific Reports</i> , 2017 , 7, 4961	4.9	47
48	Identification of fasciclin-like arabinogalactan proteins in textile hemp (<i>Cannabis sativa</i> L.): in silico analyses and gene expression patterns in different tissues. <i>BMC Genomics</i> , 2017 , 18, 741	4.5	27

47	Silicon and Plants: Current Knowledge and Technological Perspectives. <i>Frontiers in Plant Science</i> , 2017 , 8, 411	6.2	237
46	vs. Abiotic Stress: Focus on Drought and Salt Stress, Recent Insights and Perspectives. <i>Frontiers in Plant Science</i> , 2017 , 8, 1214	6.2	72
45	Differential Lipid Composition and Gene Expression in the Semi-Russeted "Cox Orange Pippin" Apple Variety. <i>Frontiers in Plant Science</i> , 2017 , 8, 1656	6.2	21
44	Impact of Silicon in Plant Biomass Production: Focus on Bast Fibres, Hypotheses, and Perspectives. <i>Plants</i> , 2017 , 6,	4.5	18
43	Textile Hemp vs. Salinity: Insights from a Targeted Gene Expression Analysis. <i>Genes</i> , 2017 , 8,	4.2	15
42	Molecular Investigation of the Stem Snap Point in Textile Hemp. <i>Genes</i> , 2017 , 8,	4.2	6
41	Biotechnological Improvements of Cold-Adapted Enzymes: Commercialization via an Integrated Approach 2017 , 477-512		0
40	miRNAs in Ancient Tissue Specimens of the Tyrolean Iceman. <i>Molecular Biology and Evolution</i> , 2017 , 34, 793-801	8.3	13
39	MdMyb93 is a regulator of suberin deposition in russeted apple fruit skins. <i>New Phytologist</i> , 2016 , 212, 977-991	9.8	65
38	Combining -Omics to Unravel the Impact of Copper Nutrition on Alfalfa (<i>Medicago sativa</i>) Stem Metabolism. <i>Plant and Cell Physiology</i> , 2016 , 57, 407-22	4.9	17
37	How to store plant tissues in the absence of liquid nitrogen? Ethanol preserves the RNA integrity of <i>Cannabis sativa</i> stem tissues. <i>AIMS Molecular Science</i> , 2016 , 3, 560-566	0.9	
36	A WDR Gene Is a Conserved Member of a Chitin Synthase Gene Cluster and Influences the Cell Wall in <i>Aspergillus nidulans</i> . <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	4
35	Extraction of High Quality RNA from <i>Cannabis sativa</i> Bast Fibres: A Vademecum for Molecular Biologists. <i>Fibers</i> , 2016 , 4, 23	3.7	7
34	Identification of Reference Genes for RT-qPCR Data Normalization in <i>Cannabis sativa</i> Stem Tissues. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	24
33	<i>Cannabis sativa</i> : The Plant of the Thousand and One Molecules. <i>Frontiers in Plant Science</i> , 2016 , 7, 19	6.2	584
32	Silicon and the Plant Extracellular Matrix. <i>Frontiers in Plant Science</i> , 2016 , 7, 463	6.2	132
31	Studying Secondary Growth and Bast Fiber Development: The Hemp Hypocotyl Peeks behind the Wall. <i>Frontiers in Plant Science</i> , 2016 , 7, 1733	6.2	38
30	Lignocellulosic biomass : Biosynthesis, degradation, and industrial utilization. <i>Engineering in Life Sciences</i> , 2016 , 16, 1-16	3.4	129

29	Target or barrier? The cell wall of early- and later-diverging plants vs cadmium toxicity: differences in the response mechanisms. <i>Frontiers in Plant Science</i> , 2015 , 6, 133	6.2	190
28	Apple russeting as seen through the RNA-seq lens: strong alterations in the exocarp cell wall. <i>Plant Molecular Biology</i> , 2015 , 88, 21-40	4.6	71
27	Destructuring plant biomass: focus on fungal and extremophilic cell wall hydrolases. <i>Plant Science</i> , 2015 , 234, 180-93	5.3	58
26	The effects of salt stress cause a diversion of basal metabolism in barley roots: possible different roles for glucose-6-phosphate dehydrogenase isoforms. <i>Plant Physiology and Biochemistry</i> , 2015 , 86, 44-54	5.4	44
25	WD40-Repeat Proteins in Plant Cell Wall Formation: Current Evidence and Research Prospects. <i>Frontiers in Plant Science</i> , 2015 , 6, 1112	6.2	14
24	Analysis of Cell Wall-Related Genes in Organs of <i>Medicago sativa</i> L. under Different Abiotic Stresses. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 16104-24	6.3	38
23	Ups and downs in alfalfa: Proteomic and metabolic changes occurring in the growing stem. <i>Plant Science</i> , 2015 , 238, 13-25	5.3	10
22	Wood biosynthesis and typologies: a molecular rhapsody. <i>Tree Physiology</i> , 2014 , 34, 839-55	4.2	35
21	No stress! Relax! Mechanisms governing growth and shape in plant cells. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 5094-114	6.3	50
20	Callose and cellulose synthase gene expression analysis from the tight cluster to the full bloom stage and during early fruit development in <i>Malus domestica</i> . <i>Journal of Plant Research</i> , 2014 , 127, 173-83	2.6	6
19	Alfalfa Cellulose synthase gene expression under abiotic stress: a Hitchhiker's guide to RT-qPCR normalization. <i>PLoS ONE</i> , 2014 , 9, e103808	3.7	37
18	Purification and biochemical characterisation of a glucose-6-phosphate dehydrogenase from the psychrophilic green alga <i>Koliella antarctica</i> . <i>Extremophiles</i> , 2013 , 17, 53-62	3	16
17	Gene expression and biochemical changes of carbohydrate metabolism in in vitro micro-propagated apple plantlets infected by 'Candidatus <i>Phytoplasma mali</i> '. <i>Plant Physiology and Biochemistry</i> , 2013 , 70, 311-7	5.4	16
16	Paleoproteomic study of the Iceman's brain tissue. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 3709-22	10.3	33
15	Integrated -omics: a powerful approach to understanding the heterogeneous lignification of fibre crops. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 10958-78	6.3	36
14	Sensitivity of <i>Aspergillus nidulans</i> to the cellulose synthase inhibitor dichlobenil: insights from wall-related genes' expression and ultrastructural hyphal morphologies. <i>PLoS ONE</i> , 2013 , 8, e80038	3.7	5
13	Putative chitin synthases from <i>Branchiostoma floridae</i> show extracellular matrix-related domains and mosaic structures. <i>Genomics, Proteomics and Bioinformatics</i> , 2012 , 10, 197-207	6.5	4
12	Heat shock transcriptional factors in <i>Malus domestica</i> : identification, classification and expression analysis. <i>BMC Genomics</i> , 2012 , 13, 639	4.5	64

11	Analysis of cellulose synthase genes from domesticated apple identifies collinear genes WDR53 and CesA8A: partial co-expression, bicistronic mRNA, and alternative splicing of CESA8A. <i>Journal of Experimental Botany</i> , 2012 , 63, 6045-56	7	7
10	A gene expression analysis of cell wall biosynthetic genes in <i>Malus x domestica</i> infected by 'Candidatus <i>Phytoplasma mali</i> '. <i>Tree Physiology</i> , 2012 , 32, 1365-77	4.2	10
9	What do we really know about cellulose biosynthesis in higher plants?. <i>Journal of Integrative Plant Biology</i> , 2010 , 52, 161-75	8.3	135
8	Biochemical characterization of family 43 glycosyltransferases in the <i>Populus</i> xylem: challenges and prospects. <i>Plant Biotechnology</i> , 2010 , 27, 283-288	1.3	1
7	A chemically modified alpha-amylase with a molten-globule state has entropically driven enhanced thermal stability. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 769-80	1.9	29
6	Chitin synthases from <i>Saprolegnia</i> are involved in tip growth and represent a potential target for anti-oomycete drugs. <i>PLoS Pathogens</i> , 2010 , 6, e1001070	7.6	51
5	The RY/Sph element mediates transcriptional repression of maturation genes from late maturation to early seedling growth. <i>New Phytologist</i> , 2009 , 184, 552-565	9.8	29
4	Identification of the cellulose synthase genes from the Oomycete <i>Saprolegnia monoica</i> and effect of cellulose synthesis inhibitors on gene expression and enzyme activity. <i>Fungal Genetics and Biology</i> , 2009 , 46, 759-67	3.9	25
3	MAP20, a microtubule-associated protein in the secondary cell walls of hybrid aspen, is a target of the cellulose synthesis inhibitor 2,6-dichlorobenzonitrile. <i>Plant Physiology</i> , 2008 , 148, 1283-94	6.6	64
2	Glucose-6P dehydrogenase in <i>Chlorella sorokiniana</i> (211/8k): an enzyme with unusual characteristics. <i>Planta</i> , 2006 , 223, 796-804	4.7	11
1	Glutamate synthase activities and protein changes in relation to nitrogen nutrition in barley: the dependence on different plastidic glucose-6P dehydrogenase isoforms. <i>Journal of Experimental Botany</i> , 2005 , 56, 55-64	7	46