Gea Guerriero

List of Publications by Citations

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	Cannabis sativa: The Plant of the Thousand and One Molecules. *Frontiers in Plant Science*, **2016**, 7, 19	6.2	584
117	Silicon and Plants: Current Knowledge and Technological Perspectives. *Frontiers in Plant Science*, **2017**, 8, 411	6.2	237
116	Target or barrier? The cell wall of early- and later-diverging plants vs cadmium toxicity: differences in the response mechanisms. *Frontiers in Plant Science*, **2015**, 6, 133	6.2	190
115	Reactive oxygen species and heavy metal stress in plants: Impact on the cell wall and secondary metabolism. *Environmental and Experimental Botany*, **2019**, 161, 98-106	5.9	151
114	Insights into the molecular regulation of monolignol-derived product biosynthesis in the growing hemp hypocotyl. *BMC Plant Biology*, **2018**, 18, 1	5.3	147
113	What do we really know about cellulose biosynthesis in higher plants?. *Journal of Integrative Plant Biology*, **2010**, 52, 161-75	8.3	135
112	Silicon and the Plant Extracellular Matrix. *Frontiers in Plant Science*, **2016**, 7, 463	6.2	132
111	Lignocellulosic bioma ss : Biosynthesis, degradation, and industrial utilization. *Engineering in Life Sciences*, **2016**, 16, 1-16	3.4	129
110	Production of Plant Secondary Metabolites: Examples, Tips and Suggestions for Biotechnologists. *Genes*, **2018**, 9,	4.2	116
109	vs. Abiotic Stress: Focus on Drought and Salt Stress, Recent Insights and Perspectives. *Frontiers in Plant Science*, **2017**, 8, 1214	6.2	72
108	Apple russeting as seen through the RNA-seq lens: strong alterations in the exocarp cell wall. *Plant Molecular Biology*, **2015**, 88, 21-40	4.6	71
107	MdMyb93 is a regulator of suberin deposition in russeted apple fruit skins. *New Phytologist*, **2016**, 212, 977-991	9.8	65
106	Heat shock transcriptional factors in Malus domestica: identification, classification and expression analysis. *BMC Genomics*, **2012**, 13, 639	4.5	64
105	MAP20, a microtubule-associated protein in the secondary cell walls of hybrid aspen, is a target of the cellulose synthesis inhibitor 2,6-dichlorobenzonitrile. *Plant Physiology*, **2008**, 148, 1283-94	6.6	64
104	Destructuring plant biomass: focus on fungal and extremophilic cell wall hydrolases. *Plant Science*, **2015**, 234, 180-93	5.3	58
103	Chitin synthases from Saprolegnia are involved in tip growth and represent a potential target for anti-oomycete drugs. *PLoS Pathogens*, **2010**, 6, e1001070	7.6	51
102	No stress! Relax! Mechanisms governing growth and shape in plant cells. *International Journal of Molecular Sciences*, **2014**, 15, 5094-114	6.3	50

101	Transcriptomic profiling of hemp bast fibres at different developmental stages. *Scientific Reports*, **2017**, 7, 4961	4.9	47
100	Glutamate synthase activities and protein changes in relation to nitrogen nutrition in barley: the dependence on different plastidic glucose-6P dehydrogenase isoforms. *Journal of Experimental Botany*, **2005**, 56, 55-64	7	46
99	The effects of salt stress cause a diversion of basal metabolism in barley roots: possible different roles for glucose-6-phosphate dehydrogenase isoforms. *Plant Physiology and Biochemistry*, **2015**, 86, 44-54	5.4	44
98	Analysis of Cell Wall-Related Genes in Organs of Medicago sativa L. under Different Abiotic Stresses. *International Journal of Molecular Sciences*, **2015**, 16, 16104-24	6.3	38
97	Studying Secondary Growth and Bast Fiber Development: The Hemp Hypocotyl Peeks behind the Wall. *Frontiers in Plant Science*, **2016**, 7, 1733	6.2	38
96	Alfalfa Cellulose synthase gene expression under abiotic stress: a Hitchhiker's guide to RT-qPCR normalization. *PLoS ONE*, **2014**, 9, e103808	3.7	37
95	Agrobiotechnology Goes Wild: Ancient Local Varieties as Sources of Bioactives. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	37
94	Does long-term cadmium exposure influence the composition of pectic polysaccharides in the cell wall of Medicago sativa stems?. *BMC Plant Biology*, **2019**, 19, 271	5.3	36
93	Long-term cadmium exposure influences the abundance of proteins that impact the cell wall structure in Medicago sativa stems. *Plant Biology*, **2018**, 20, 1023-1035	3.7	36
92	Integrated -omics: a powerful approach to understanding the heterogeneous lignification of fibre crops. *International Journal of Molecular Sciences*, **2013**, 14, 10958-78	6.3	36
91	Wood biosynthesis and typologies: a molecular rhapsody. *Tree Physiology*, **2014**, 34, 839-55	4.2	35
90	Paleoproteomic study of the Iceman's brain tissue. *Cellular and Molecular Life Sciences*, **2013**, 70, 3709-22	10.3	33
89	A chemically modified alpha-amylase with a molten-globule state has entropically driven enhanced thermal stability. *Protein Engineering, Design and Selection*, **2010**, 23, 769-80	1.9	29
88	The RY/Sph element mediates transcriptional repression of maturation genes from late maturation to early seedling growth. *New Phytologist*, **2009**, 184, 552-565	9.8	29
87	The Roots of Plant Frost Hardiness and Tolerance. *Plant and Cell Physiology*, **2020**, 61, 3-20	4.9	29
86	Identification of fasciclin-like arabinogalactan proteins in textile hemp (Cannabis sativa L.): in silico analyses and gene expression patterns in different tissues. *BMC Genomics*, **2017**, 18, 741	4.5	27
85	A Review on the Beneficial Role of Silicon against Salinity in Non-Accumulator Crops: Tomato as a Model. *Biomolecules*, **2020**, 10,	5.9	26
84	The Iceman's Last Meal Consisted of Fat, Wild Meat, and Cereals. *Current Biology*, **2018**, 28, 2348-2355.e8	6.3	25

83	Identification of the cellulose synthase genes from the Oomycete Saprolegnia monoica and effect of cellulose synthesis inhibitors on gene expression and enzyme activity. *Fungal Genetics and Biology*, **2009**, 46, 759-67	3.9	25
82	Tracing the role of plant proteins in the response to metal toxicity: a comprehensive review. *Plant Signaling and Behavior*, **2018**, 13, e1507401	2.5	25
81	Identification of Reference Genes for RT-qPCR Data Normalization in Cannabis sativa Stem Tissues. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	24
80	Identification of the aquaporin gene family in Cannabis sativa and evidence for the accumulation of silicon in its tissues. *Plant Science*, **2019**, 287, 110167	5.3	22
79	Differential Lipid Composition and Gene Expression in the Semi-Russeted "Cox Orange Pippin" Apple Variety. *Frontiers in Plant Science*, **2017**, 8, 1656	6.2	21
78	Physico-chemical properties and toxicological effects on plant and algal models of carbon nanosheets from a nettle fibre clone. *Scientific Reports*, **2021**, 11, 6945	4.9	21
77	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. *Journal of Experimental Botany*, **2021**, 72, 4457-4471	7	20
76	Impact of Silicon in Plant Biomass Production: Focus on Bast Fibres, Hypotheses, and Perspectives. *Plants*, **2017**, 6,	4.5	18
75	Plant Extracellular Vesicles and Nanovesicles: Focus on Secondary Metabolites, Proteins and Lipids with Perspectives on Their Potential and Sources. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	18
74	Rough and tough. How does silicic acid protect horsetail from fungal infection?. *Journal of Trace Elements in Medicine and Biology*, **2018**, 47, 45-52	4.1	17
73	Combining -Omics to Unravel the Impact of Copper Nutrition on Alfalfa (Medicago sativa) Stem Metabolism. *Plant and Cell Physiology*, **2016**, 57, 407-22	4.9	17
72	Silicic acid: The omniscient molecule. *Science of the Total Environment*, **2019**, 665, 432-437	10.2	17
71	Purification and biochemical characterisation of a glucose-6-phosphate dehydrogenase from the psychrophilic green alga Koliella antarctica. *Extremophiles*, **2013**, 17, 53-62	3	16
70	Gene expression and biochemical changes of carbohydrate metabolism in in vitro micro-propagated apple plantlets infected by 'Candidatus Phytoplasma mali'. *Plant Physiology and Biochemistry*, **2013**, 70, 311-7	5.4	16
69	Functional Molecules in Locally-Adapted Crops: The Case Study of Tomatoes, Onions, and Sweet Cherry Fruits From Tuscany in Italy. *Frontiers in Plant Science*, **2018**, 9, 1983	6.2	15
68	Textile Hemp vs. Salinity: Insights from a Targeted Gene Expression Analysis. *Genes*, **2017**, 8,	4.2	15
67	WD40-Repeat Proteins in Plant Cell Wall Formation: Current Evidence and Research Prospects. *Frontiers in Plant Science*, **2015**, 6, 1112	6.2	14
66	How is silicic acid transported in plants?. *Silicon*, **2020**, 12, 2641-2645	2.4	14

65	Cold stress affects cell wall deposition and growth pattern in tobacco pollen tubes. *Plant Science*, **2019**, 283, 329-342	5.3	13
64	miRNAs in Ancient Tissue Specimens of the Tyrolean Iceman. *Molecular Biology and Evolution*, **2017**, 34, 793-801	8.3	13
63	Is callose required for silicification in plants?. *Biology Letters*, **2018**, 14,	3.6	12
62	Glucose-6P dehydrogenase in Chlorella sorokiniana (211/8k): an enzyme with unusual characteristics. *Planta*, **2006**, 223, 796-804	4.7	11
61	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. *Scientific Reports*, **2020**, 10, 14078	4.9	11
60	Site-directed chemically-modified magnetic enzymes: fabrication, improvements, biotechnological applications and future prospects. *Biotechnology Advances*, **2019**, 37, 357-381	17.8	11
59	Distribution of cell-wall polysaccharides and proteins during growth of the hemp hypocotyl. *Planta*, **2019**, 250, 1539-1556	4.7	10
58	Bast fibre formation: insights from Next-Generation Sequencing. *Procedia Engineering*, **2017**, 200, 229-235		10
57	Ups and downs in alfalfa: Proteomic and metabolic changes occurring in the growing stem. *Plant Science*, **2015**, 238, 13-25	5.3	10
56	A gene expression analysis of cell wall biosynthetic genes in Malus x domestica infected by 'Candidatus Phytoplasma mali'. *Tree Physiology*, **2012**, 32, 1365-77	4.2	10
55	Impact of Nitrogen Nutrition on : An Update on the Current Knowledge and Future Prospects. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	10
54	Jasmonic acid to boost secondary growth in hemp hypocotyl. *Planta*, **2018**, 248, 1029-1036	4.7	10
53	Visualising Silicon in Plants: Histochemistry, Silica Sculptures and Elemental Imaging. *Cells*, **2020**, 9,	7.9	9
52	A Molecular Blueprint of Lignin Repression. *Trends in Plant Science*, **2019**, 24, 1052-1064	13.1	9
51	Selection of Appropriate Reference Genes for Gene Expression Analysis under Abiotic Stresses in. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
50	Identification of the laccase-like multicopper oxidase gene family of sweet cherry (Prunus avium L.) and expression analysis in six ancient Tuscan varieties. *Scientific Reports*, **2019**, 9, 3557	4.9	8
49	Sucrose synthase gene expression analysis in the fibre nettle (Urtica dioica L.) cultivar 'clone 13' *Industrial Crops and Products*, **2018**, 123, 315-322	5.9	8
48	Silicon-induced mitigatory effects in salt-stressed hemp leaves. *Physiologia Plantarum*, **2021**, 171, 476-482	4.6	8

47	Cell wall composition and transcriptomics in stem tissues of stinging nettle (L.): Spotlight on a neglected fibre crop. *Plant Direct*, **2019**, 3, e00151	3.3	7
46	Analysis of cellulose synthase genes from domesticated apple identifies collinear genes WDR53 and CesA8A: partial co-expression, bicistronic mRNA, and alternative splicing of CESA8A. *Journal of Experimental Botany*, **2012**, 63, 6045-56	7	7
45	Extraction of High Quality RNA from Cannabis sativa Bast Fibres: A Vademecum for Molecular Biologists. *Fibers*, **2016**, 4, 23	3.7	7
44	Tuscan Varieties of Sweet Cherry Are Rich Sources of Ursolic and Oleanolic Acid: Protein Modeling Coupled to Targeted Gene Expression and Metabolite Analyses. *Molecules*, **2019**, 24,	4.8	6
43	Controlled nitrogen atmosphere for the preservation of functional molecules during silos storage: A case study using old Italian wheat cultivars. *Journal of Stored Products Research*, **2020**, 88, 101638	2.5	6
42	Deletion of the celA gene in Aspergillus nidulans triggers overexpression of secondary metabolite biosynthetic genes. *Scientific Reports*, **2017**, 7, 5978	4.9	6
41	Molecular Investigation of the Stem Snap Point in Textile Hemp. *Genes*, **2017**, 8,	4.2	6
40	Callose and cellulose synthase gene expression analysis from the tight cluster to the full bloom stage and during early fruit development in Malus domestica. *Journal of Plant Research*, **2014**, 127, 173-83	2.6	6
39	Phyto-Courier, a Silicon Particle-Based Nano-biostimulant: Evidence from Exposed to Salinity. *ACS Nano*, **2021**, 15, 3061-3069	16.7	6
38	A reappraisal of biological silicification in plants?. *New Phytologist*, **2019**, 223, 511-513	9.8	5
37	Nutraceutical Characteristics of Ancient x Borkh. Fruits Recovered across Siena in Tuscany. *Medicines (Basel, Switzerland)*, **2019**, 6,	4.1	5
36	Expression Analysis of Cell Wall-Related Genes in the Plant Pathogenic Fungus. *Genes*, **2020**, 11,	4.2	5
35	Novel Insights from Comparative In Silico Analysis of Green Microalgal Cellulases. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	5
34	Sensitivity of Aspergillus nidulans to the cellulose synthase inhibitor dichlobenil: insights from wall-related genes' expression and ultrastructural hyphal morphologies. *PLoS ONE*, **2013**, 8, e80038	3.7	5
33	Impact of cadmium and zinc on proteins and cell wall-related gene expression in young stems of hemp (Cannabis sativa L.) and influence of exogenous silicon. *Environmental and Experimental Botany*, **2021**, 183, 104363	5.9	5
32	Molecular insights into plant desiccation tolerance: transcriptomics, proteomics and targeted metabolite profiling in Craterostigma plantagineum. *Plant Journal*, **2021**, 107, 377-398	6.9	5
31	The Use of Silicon in Stressed Agriculture Management **2020**, 381-431		5
30	The Dynamics of the Cell Wall Proteome of Developing Alfalfa Stems. *Biology*, **2019**, 8,	4.9	4

29	Identification of Jasmonic Acid Biosynthetic Genes in Sweet Cherry and Expression Analysis in Four Ancient Varieties from Tuscany. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	4
28	Putative chitin synthases from Branchiostoma floridae show extracellular matrix-related domains and mosaic structures. *Genomics, Proteomics and Bioinformatics*, **2012**, 10, 197-207	6.5	4
27	: Taxonomy, Morphology, Interaction With Barley, and Mode of Control. *Frontiers in Plant Science*, **2021**, 12, 614951	6.2	4
26	A WDR Gene Is a Conserved Member of a Chitin Synthase Gene Cluster and Influences the Cell Wall in Aspergillus nidulans. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	4
25	Interaction of Nano-sized Nutrients with Plant Biomass: A Review **2018**, 135-149		3
24	Expression Analysis of Cell Wall-Related Genes in Cannabis sativa: The Ins and Outs of Hemp Stem Tissue Development. *Fibers*, **2018**, 6, 27	3.7	3
23	Plant Fibers and Phenolics: A Review on Their Synthesis, Analysis and Combined Use for Biomaterials with New Properties. *Fibers*, **2019**, 7, 80	3.7	3
22	Long-Term Cd Exposure Alters the Metabolite Profile in Stem Tissue of. *Cells*, **2020**, 9,	7.9	3
21	Insights into Lignan Composition and Biosynthesis in Stinging Nettle (L.). *Molecules*, **2019**, 24,	4.8	3
20	Molecular and Biochemical Insights Into Early Responses of Hemp to Cd and Zn Exposure and the Potential Effect of Si on Stress Response. *Frontiers in Plant Science*, **2021**, 12, 711853	6.2	3
19	On a Cold Night: Transcriptomics of Grapevine Flower Unveils Signal Transduction and Impacted Metabolism. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	2
18	Silicon reduces cadmium absorption and increases root-to-shoot translocation without impacting growth in young plants of hemp (Cannabis sativa L.) on a short-term basis. *Environmental Science and Pollution Research*, **2021**, 28, 37963-37977	5.1	2
17	Immunohistochemical analyses on two distinct internodes of stinging nettle show different distribution of polysaccharides and proteins in the cell walls of bast fibers. *Protoplasma*, **2021**, 1	3.4	2
16	Histochemical Techniques in Plant Science: More Than Meets the Eye. *Plant and Cell Physiology*, **2021**, 62, 1509-1527	4.9	2
15	Computational Analysis of Thermal Adaptation in Extremophilic Chitinases: The Achilles' Heel in Protein Structure and Industrial Utilization. *Molecules*, **2021**, 26,	4.8	2
14	Molecular investigation of Tuscan sweet cherries sampled over three years: gene expression analysis coupled to metabolomics and proteomics. *Horticulture Research*, **2021**, 8, 12	7.7	2
13	Impact of jasmonic acid on lignification in the hemp hypocotyl. *Plant Signaling and Behavior*, **2019**, 14, 1592641	2.5	1
12	Biochemical characterization of family 43 glycosyltransferases in the Populus xylem: challenges and prospects. *Plant Biotechnology*, **2010**, 27, 283-288	1.3	1

11	Gene expression and metabolite analysis in barley inoculated with net blotch fungus and plant growth-promoting rhizobacteria. *Plant Physiology and Biochemistry*, **2021**, 168, 488-500	5.4	1
10	Roles of Silicon in Alleviating Zinc Stress in Plants **2020**, 355-366		1
9	High Frequency Direct Organogenesis, Genetic Homogeneity, Chemical Characterization and Leaf Ultra-Structural Study of Regenerants in Diplocyclos palmatus (L.) C. Jeffrey. *Agronomy*, **2021**, 11, 2164	3.6	1
8	Fractal structures and silica films formed by the Treignac water on inert and biological surfaces. *Nanoscale Advances*, **2020**, 2, 3821-3828	5.1	1
7	transcriptome assembly of textile hemp from datasets on hypocotyls and adult plants. *Data in Brief* , **2019**, 27, 104790	1.2	1
6	Molecular Investigation of Metalloid Stress Response in Higher Plants **2020**, 213-230		1
5	Impact of Pseudomonas sp. SVB-B33 on Stress- and Cell Wall-Related Genes in Roots and Leaves of Hemp under Salinity. *Horticulturae*, **2022**, 8, 336	2.5	1
4	Impact of Heavy Metals on Non-food Herbaceous Crops and Prophylactic Role of Si **2019**, 303-321		0
3	One for All and All for One! Increased Plant Heavy Metal Tolerance by Growth-Promoting Microbes: A Metabolomics Standpoint **2019**, 39-54		0
2	Biotechnological Improvements of Cold-Adapted Enzymes: Commercialization via an Integrated Approach **2017**, 477-512		0
1	How to store plant tissues in the absence of liquid nitrogen? Ethanol preserves the RNA integrity of Cannabis sativa stem tissues. *AIMS Molecular Science*, **2016**, 3, 560-566	0.9	