Massimiliano Tattini

List of Publications by Year
in descending order

101 papers	9,650 citations	50170 46 h-index	38300 95 g-index
104 all docs	104 docs citations	104 times ranked	9736 citing authors

#	Article	IF	Citations
1	Beyond Photoprotection: The Multifarious Roles of Flavonoids in Plant Terrestrialization. International Journal of Molecular Sciences, 2022, 23, 5284.	1.8	15
2	Unveiling the shade nature of cyanic leaves: A view from the â€œblue absorbing sideâ€•of anthocyanins. Plant, Cell and Environment, 2021, 44, 1119-1129.	2.8	31
3	Antioxidant Defenses in Plants: A Dated Topic of Current Interest. Antioxidants, 2021, 10, 855.	2.2	9
4	Anthocyanins in photoprotection: knowing theÂactors in play to solve thisÂcomplex ecophysiological issue. New Phytologist, 2021, 232, 2228-2235.	3.5	34
5	Photoprotective Role of Photosynthetic and Non-Photosynthetic Pigments in Phillyrea latifolia: Is Their â€œAntioxidantâ€•Function Prominent in Leaves Exposed to Severe Summer Drought?. International Journal of Molecular Sciences, 2021, 22, 8303.	1.8	11
6	Coordination of Morpho-Physiological and Metabolic Traits of Cistus incanus L. to Overcome Heatwave-Associated Summer Drought: A Two-Year On-Site Field Study. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	6
7	Are Flavonoids Effective Antioxidants in Plants? Twenty Years of Our Investigation. Antioxidants, 2020, 9, 1098.	2.2	133
8	Functional and Structural Leaf Plasticity Determine Photosynthetic Performances during Drought Stress and Recovery in Two Platanus orientalis Populations from Contrasting Habitats. International Journal of Molecular Sciences, 2020, 21, 3912.	1.8	20
9	Dissecting Adaptation Mechanisms to Contrasting Solar Irradiance in the Mediterranean Shrub Cistus incanus. International Journal of Molecular Sciences, 2019, 20, 3599.	1.8	7
10	An integrated overview of physiological and biochemical responses of Celtis australis to drought stress. Urban Forestry and Urban Greening, 2019, 46, 126480.	2.3	8
11	Phellem Cell-Wall Components Are Discriminants of Cork Quality in Quercus suber. Frontiers in Plant Science, 2019, 10, 944.	1.7	10
12	Seasonal and daily variations in primary and secondary metabolism of three maquis shrubs unveil different adaptive responses to Mediterranean climate. , 2019, 7, coz070.		13
13	Review: ABA, flavonols, and the evolvability of land plants. Plant Science, 2019, 280, 448-454.	1.7	67
14	Physiological and structural adjustments of two ecotypes of<i>Platanus orientalis</i>L. from different habitats in response to drought and re-watering. , 2018, 6, coy073.		11
15	Modulation of Phytohormone Signaling: A Primary Function of Flavonoids in Plantâ€“Environment Interactions. Frontiers in Plant Science, 2018, 9, 1042.	1.7	134
16	Metabolic plasticity in the hygrophyte Moringa oleifera exposed to water stress. Tree Physiology, 2018, 38, 1640-1654.	1.4	20
17	Phenotypic differences determine drought stress responses in ecotypes of Arundo donax adapted to different environments. Journal of Experimental Botany, 2017, 68, 2439-2451.	2.4	23
18	Dissecting molecular and physiological response mechanisms to high solar radiation in cyanic and acyanic leaves: a case study on red and green basil. Journal of Experimental Botany, 2017, 68, 2425-2437.	2.4	42

#	ARTICLE	IF	CITATIONS
19	Dissecting the role of isoprene and stress-related hormones (ABA and ethylene) in Populus nigra exposed to unequal root zone water stress. Tree Physiology, 2017, 37, 1637-1647.	1.4	37
20	Isoprene Responses and Functions in Plants Challenged by Environmental Pressures Associated to Climate Change. Frontiers in Plant Science, 2017, 8, 1281.	1.7	42
21	Editorial: Plants' Responses to Novel Environmental Pressures. Frontiers in Plant Science, 2017, 8, 2000.	1.7	28
22	Characterisation and Antioxidant Activity of Crude Extract and Polyphenolic Rich Fractions from C. incanus Leaves. International Journal of Molecular Sciences, 2016, 17, 1344.	1.8	36
23	De Novo Assembly and Comparative Transcriptome Analyses of Red and Green Morphs of Sweet Basil Grown in Full Sunlight. PLoS ONE, 2016, 11, e0160370.	1.1	25
24	Grape Ripening Is Regulated by Deficit Irrigation/Elevated Temperatures According to Cluster Position in the Canopy. Frontiers in Plant Science, 2016, 7, 1640.	1.7	57
25	Mesophyll conductance plays a central role in leaf functioning of Oleaceae species exposed to contrasting sunlight irradiance. Physiologia Plantarum, 2016, 157, 54-68.	2.6	40
26	Physiological significance of isoprenoids and phenylpropanoids in drought response of Arundinoideae species with contrasting habitats and metabolism. Plant, Cell and Environment, 2016, 39, 2185-2197.	2.8	32
27	BVOC responses to realistic nitrogen fertilization and ozone exposure in silver birch. Environmental Pollution, 2016, 213, 988-995.	3.7	52
28	UV radiation promotes flavonoid biosynthesis, while negatively affecting the biosynthesis and the de-epoxidation of xanthophylls: Consequence for photoprotection?. Environmental and Experimental Botany, 2016, 127, 14-25.	2.0	49
29	Antioxidant capacity and cytotoxicity of different polyphenolic extracts of Pistacia lentiscus. Planta Medica, 2016, 81, S1-S381.	0.7	1
30	New evidence for the functional roles of secondary metabolites in plantâ€“environment interactions. Environmental and Experimental Botany, 2015, 119, 1-3.	2.0	13
31	Multiple functional roles of anthocyanins in plant-environment interactions. Environmental and Experimental Botany, 2015, 119, 4-17.	2.0	468
32	Isoprenoids and phenylpropanoids are key components of the antioxidant defense system of plants facing severe excess light stress. Environmental and Experimental Botany, 2015, 119, 54-62.	2.0	107
33	Isoprenoids and phenylpropanoids are part of the antioxidant defense orchestrated daily by droughtâ€stressed <i><scp>P</scp>latanusÂ</i>Ã—<i>Âacerifolia</i> plants during Mediterranean summers. New Phytologist, 2015, 207, 613-626.	3.5	127
34	Trees in urban environment: responde mechanisms and benefits for the ecosystem should guide plant selection for future plantings. Journal of Agricultural Economics, 2015, , .	0.1	1
35	Photosynthetic performance and biochemical adjustments in two co-occurring Mediterranean evergreens, Quercus ilex and Arbutus unedo, differing in salt-exclusion ability. Functional Plant Biology, 2014, 41, 391.	1.1	16
36	Salinity stress constrains photosynthesis in Fraxinus ornus more when growing in partial shading than in full sunlight: consequences for the antioxidant defence system. Annals of Botany, 2014, 114, 525-538.	1.4	10

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37	Epidermal coumaroyl anthocyanins protect sweet basil against excess light stress: multiple consequences of light attenuation. Physiologia Plantarum, 2014, 152, 585-598.	2.6	77
38	Isoprene production in transgenic tobacco alters isoprenoid, nonâ€structural carbohydrate and phenylpropanoid metabolism, and protects photosynthesis from drought stress. Plant, Cell and Environment, 2014, 37, 1950-1964.	2.8	63
39	Multiple functions of polyphenols in plants inhabiting unfavorable Mediterranean areas. Environmental and Experimental Botany, 2014, 103, 107-116.	2.0	109
40	Photoprotection by foliar anthocyanins mitigates effects of boron toxicity in sweet basil (Ocimum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 [illegible]	1.6	86
41	Esculetin and esculin (esculetin 6-O-glucoside) occur as inclusions and are differentially distributed in the vacuole of palisade cells in Fraxinus ornus leaves: A fluorescence microscopy analysis. Journal of Photochemistry and Photobiology B: Biology, 2014, 140, 28-35.	1.7	28
42	Acclimation to partial shading or full sunlight determines the performance of container-grown Fraxinus ornus to subsequent drought stress. Urban Forestry and Urban Greening, 2014, 13, 63-70.	2.3	18
43	RNA-Seq Analysis of Quercus pubescens Leaves: De Novo Transcriptome Assembly, Annotation and Functional Markers Development. PLoS ONE, 2014, 9, e112487.	1.1	49
44	Metabolomics in plant environmental physiology. Journal of Experimental Botany, 2013, 64, 4011-4020.	2.4	96
45	Water relations, growth, and leaf gas exchange as affected by water stress in Jatropha curcas. Journal of Arid Environments, 2013, 89, 21-29.	1.2	54
46	Functional roles of flavonoids in photoprotection: New evidence, lessons from the past. Plant Physiology and Biochemistry, 2013, 72, 35-45.	2.8	452
47	Flavonoids as Antioxidants and Developmental Regulators: Relative Significance in Plants and Humans. International Journal of Molecular Sciences, 2013, 14, 3540-3555.	1.8	363
48	Flavonoids as Antioxidants in Plants Under Abiotic Stresses. , 2012, , 159-179.		110
49	Drought stress has contrasting effects on antioxidant enzymes activity and phenylpropanoid biosynthesis in Fraxinus ornus leaves: An excess light stress affair?. Journal of Plant Physiology, 2012, 169, 929-939.	1.6	124
50	Flavonoids as antioxidants in plants: Location and functional significance. Plant Science, 2012, 196, 67-76.	1.7	1,408
51	Photosynthetic limitations and volatile and nonâ€volatile isoprenoids in the poikilochlorophyllous resurrection plant <i>Xerophyta humilis</i> during dehydration and rehydration. Plant, Cell and Environment, 2012, 35, 2061-2074.	2.8	118
52	Flavonols: old compounds for old roles. Annals of Botany, 2011, 108, 1225-1233.	1.4	311
53	The biosynthesis of flavonoids is enhanced similarly by UV radiation and root zone salinity in L. vulgare leaves. Journal of Plant Physiology, 2011, 168, 204-212.	1.6	263
54	The impact of UV-radiation on the physiology and biochemistry of Ligustrum vulgare exposed to different visible-light irradiance. Environmental and Experimental Botany, 2011, 70, 88-95.	2.0	39

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55	Light-induced accumulation of ortho-dihydroxylated flavonoids as non-destructively monitored by chlorophyll fluorescence excitation techniques. Environmental and Experimental Botany, 2011, 73, 3-9.	2.0	128
56	Stress-induced flavonoid biosynthesis and the antioxidant machinery of plants. Plant Signaling and Behavior, 2011, 6, 709-711.	1.2	351
57	An ecophysiological analysis of salinity tolerance in olive. Environmental and Experimental Botany, 2010, 68, 214-221.	2.0	46
58	Ozone tolerance in Phaseolus vulgaris depends on more than one mechanism. Environmental Pollution, 2010, 158, 3164-3171.	3.7	23
59	Multiple functional roles of flavonoids in photoprotection. New Phytologist, 2010, 186, 786-793.	3.5	656
60	Mesophyll distribution of â€˜antioxidantâ€™ flavonoid glycosides in Ligustrum vulgare leaves under contrasting sunlight irradiance. Annals of Botany, 2009, 104, 853-861.	1.4	153
61	On the mechanism of salt tolerance in olive (Olea europaea L.) under low- or high-Ca2+ supply. Environmental and Experimental Botany, 2009, 65, 72-81.	2.0	52
62	Interaction effects of root-zone salinity and solar irradiance on the physiology and biochemistry of Olea europaea. Environmental and Experimental Botany, 2009, 65, 210-219.	2.0	50
63	Antioxidant defences and oxidative damage in salt-treated olive plants under contrasting sunlight irradiance. Tree Physiology, 2009, 29, 1187-1198.	1.4	55
64	Contrasting response mechanisms to root-zone salinity in three co-occurring Mediterranean woody evergreens: a physiological and biochemical study. Functional Plant Biology, 2009, 36, 551.	1.1	13
65	PHENOLIC COMPOUNDS AND ANTIOXIDANT POWER IN MINIMALLY PROCESSED SALAD. Journal of Food Biochemistry, 2008, 32, 642-653.	1.2	32
66	Interactions of water stress and solar irradiance on the physiology and biochemistry of Ligustrum vulgare. Tree Physiology, 2008, 28, 873-883.	1.4	50
67	Responses to Changes in Ca2+ Supply in Two Mediterranean Evergreens, Phillyrea latifolia and Pistacia lentiscus, During Salinity Stress and Subsequent Relief. Annals of Botany, 2008, 102, 609-622.	1.4	24
68	CHANGES IN LEAF PHENOLIC COMPOUNDS IN TWO GRAPEVINE VARIETIES (VITIS VINIFERA L.) GROWN IN DIFFERENT WATER CONDITIONS. Acta Horticulturae, 2007, , 295-300.	0.1	7
69	Chloroplastâ€located flavonoids can scavenge singlet oxygen. New Phytologist, 2007, 174, 77-89.	3.5	232
70	Flavonoid Distribution in Tissues of Phillyrea latifolia L. Leaves as Estimated by Microspectrofluorometry and Multispectral Fluorescence MicroimagingÂ¶. Photochemistry and Photobiology, 2007, 76, 350-360.	1.3	16
71	Morphology and Biochemistry of Non-Glandular Trichomes in Cistus salvifolius L. Leaves Growing in Extreme Habitats of the Mediterranean Basin. Plant Biology, 2007, 9, 411-419.	1.8	47
72	Morphoâ€anatomical, physiological and biochemical adjustments in response to root zone salinity stress and high solar radiation in two Mediterranean evergreen shrubs, Myrtus communis and Pistacia lentiscus. New Phytologist, 2006, 170, 779-794.	3.5	101

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73	Simultaneous LC-DAD and LC-MS Determination of Ellagitannins, Flavonoid Glycosides, and Acyl-Glycosyl Flavonoids in Cistus salvifolius L. Leaves. Chromatographia, 2005, 62, 245-249.	0.7	37
74	On the role of flavonoids in the integrated mechanisms of response of Ligustrum vulgare and Phillyrea latifolia to high solar radiation. New Phytologist, 2005, 167, 457-470.	3.5	153
75	Differential accumulation of flavonoids and hydroxycinnamates in leaves of Ligustrum vulgare under excess light and drought stress. New Phytologist, 2004, 163, 547-561.	3.5	412
76	Gas exchange, water relations and osmotic adjustment in two scion/rootstock combinations of Prunus under various salinity concentrations. Plant and Soil, 2004, 259, 153-162.	1.8	48
77	Antioxidant Activity of Galloyl Quinic Derivatives Isolated from P. lentiscus Leaves. Free Radical Research, 2003, 37, 405-412.	1.5	123
78	Gas exchange, water relations and osmotic adjustment in Phillyrea latifolia grown at various salinity concentrations. Tree Physiology, 2002, 22, 403-412.	1.4	67
79	Identification and quantification of galloyl derivatives, flavonoid glycosides and anthocyanins in leaves of Pistacia lentiscus L.. Phytochemical Analysis, 2002, 13, 79-86.	1.2	109
80	Flavonoid Distribution in Tissues of Phillyrea latifolia L. Leaves as Estimated by Microspectrofluorometry and Multispectral Fluorescence MicroimagingÂ¶. Photochemistry and Photobiology, 2002, 76, 350.	1.3	77
81	Flavonoids accumulate in leaves and glandular trichomes of Phillyrea latifolia exposed to excess solar radiation. New Phytologist, 2000, 148, 69-77.	3.5	190
82	HPLC Analysis of Flavonoids and Secoiridoids in Leaves ofLigustrum vulgareL. (Oleaceae). Journal of Agricultural and Food Chemistry, 2000, 48, 4091-4096.	2.4	48
83	Identification and quantitation of polyphenols in leaves ofMyrtus communis L.. Chromatographia, 1999, 49, 17-20.	0.7	92
84	Ionic relations of Phillyrea latifolia L. plants during NaCl stress and relief from stress. Canadian Journal of Botany, 1999, 77, 969-975.	1.2	9
85	Ionic relations of <i>Phillyrea latifolia</i> L. plants during NaCl stress and relief from stress. Canadian Journal of Botany, 1999, 77, 969-975.	1.2	20
86	Analysis of leaf water relations in leaves of two olive (Olea europaea) cultivars differing in tolerance to salinity. Tree Physiology, 1997, 17, 13-21.	1.4	144
87	Title is missing!. Plant and Soil, 1997, 197, 87-93.	1.8	50
88	Salinity tolerance in Phillyrea species. New Phytologist, 1997, 135, 227-234.	3.5	33
89	Extraction and identification procedures of polyphenolic compounds and carbohydrates in phillyrea (Phillyrea angustifolia L.) leaves. Chromatographia, 1996, 42, 571-577.	0.7	33
90	Changes in non-structural carbohydrates in olive (Olea europaea) leaves during root zone salinity stress. Physiologia Plantarum, 1996, 98, 117-124.	2.6	91

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91	Changes in non-structural carbohydrates in olive (Olea europaea) leaves during root zone salinity stress. Physiologia Plantarum, 1996, 98, 117-124.	2.6	7
92	Growth, gas exchange and ion content in Olea europaea plants during salinity stress and subsequent relief. Physiologia Plantarum, 1995, 95, 203-210.	2.6	139
93	Growth, ion accumulation, and lipid composition of two olive genotypes under salinity¹. Journal of Plant Nutrition, 1995, 18, 1723-1734.	0.9	22
94	Plant lipids and salt exclusion ability in Olea europaea L. and Phyllirea angustifolia L. Giornale Botanico Italiano (Florence, Italy: 1962), 1995, 129, 1108-1109.	0.0	1
95	Growth, gas exchange and ion content in Olea europaea plants during salinity stress and subsequent relief. Physiologia Plantarum, 1995, 95, 203-210.	2.6	16
96	Extraction, purification procedures and HPLC-RI analysis of carbohydrates in olive (Olea europaea L.) plants. Chromatographia, 1994, 39, 35-39.	0.7	27
97	Polyamine analysis in salt stressed plants of olive (<i>Olea europaea</i>L.). The Journal of Horticultural Science, 1993, 68, 613-617.	0.3	15
98	Genotipic responses of olive plants to sodium chloride. Journal of Plant Nutrition, 1992, 15, 1467-1485.	0.9	84
99	Determination of flavonoids, flavonoid glycosides and biflavonoids inOlea europaea L. Leaves. Chromatographia, 1992, 33, 369-373.	0.7	37
100	How Does Chloroplast Protect Chlorophyll Against Excessive Light?. , 0, , .		17
101	Coordination of morpho-physiological and metabolic traits of C. incanus to overcome heatwave-associated summer drought: a two-year on-site field study. , 0, , .		0