Efisio Mattana

List of Publications by Year
in descending order

78 papers	1,804 citations	304743 22 h-index	330143 37 g-index
78 all docs	78 docs citations	78 times ranked	1550 citing authors

#	Article	IF	Citations
1	Hotspots within hotspots: Endemic plant richness, environmental drivers, and implications for conservation. Biological Conservation, 2014, 170, 282-291.	4.1	174
2	Unlocking plant resources to support food security and promote sustainable agriculture. Plants People Planet, 2020, 2, 421-445.	3.3	130
3	Seeds of future past: climate change and the thermal memory of plant reproductive traits. Biological Reviews, 2019, 94, 439-456.	10.4	74
4	Thermal thresholds as predictors of seed dormancy release and germination timing: altitude-related risks from climate warming for the wild grapevine Vitis vinifera subsp. sylvestris. Annals of Botany, 2012, 110, 1651-1660.	2.9	68
5	The seed germination spectrum of alpine plants: a global metaâ€analysis. New Phytologist, 2021, 229, 3573-3586.	7.3	66
6	Born to Eat Wild: An Integrated Conservation Approach to Secure Wild Food Plants for Food Security and Nutrition. Plants, 2020, 9, 1299.	3.5	62
7	The Endemic Vascular Flora of Supramontes (Sardinia), a Priority Plant Conservation Area. Candollea, 2010, 65, 347.	0.2	55
8	Photoinhibition of seed germination: occurrence, ecology and phylogeny. Seed Science Research, 2017, 27, 131-153.	1.7	53
9	Morpho-colorimetric characterization by image analysis to identify diaspores of wild plant species. Flora: Morphology, Distribution, Functional Ecology of Plants, 2008, 203, 669-682.	1.2	50
10	The climatic challenge: Which plants will people use in the next century?. Environmental and Experimental Botany, 2020, 170, 103872.	4.2	45
11	A checklist of the exclusive vascular flora of Sardinia with priority rankings for conservation. Anales Del Jardin Botanico De Madrid, 2012, 69, 81-89.	0.4	45
12	Thermal niche for in situ seed germination by Mediterranean mountain streams: model prediction and validation for Rhamnus persicifolia seeds. Annals of Botany, 2013, 112, 1887-1897.	2.9	42
13	Adaptation to habitat inAquilegiaspecies endemic to Sardinia (Italy): Seed dispersal, germination and persistence in the soil. Plant Biosystems, 2012, 146, 374-383.	1.6	38
14	Spatial genetic structure of Aquilegia taxa endemic to the island of Sardinia. Annals of Botany, 2012, 109, 953-964.	2.9	37
15	Statistical seed classifiers of 10 plant families representative of the Mediterranean vascular flora. Seed Science and Technology, 2010, 38, 455-476.	1.4	36
16	Distribution, status and conservation of a Critically Endangered, extremely narrow endemic: Lamyropsis microcephala (Asteraceae) in Sardinia. Oryx, 2011, 45, 180-186.	1.0	36
17	Interchangeable effects of gibberellic acid and temperature on embryo growth, seed germination and epicotyl emergence in Ribes multiflorum ssp. sandalioticum (Grossulariaceae). Plant Biology, 2012, 14, 77-87.	3.8	31
18	From seed to seedling: A critical transitional stage for the Mediterranean psammophilous speciesDianthus morisianus(Caryophyllaceae). Plant Biosystems, 2012, 146, 910-917.	1.6	30

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19	Inter- and intra-specific variability in seed dormancy loss and germination requirements in the Lavatera triloba aggregate (Malvaceae). Plant Ecology and Evolution, 2015, 148, 100-110.	0.7	30
20	Seed germination and survival of the endangered psammophilousRouya polygama(Apiaceae) in different light, temperature and NaCl conditions. Seed Science Research, 2014, 24, 331-339.	1.7	26
21	Morphoâ€colorimetric analysis and seed germination of Brassica insularis Moris (Brassicaceae) populations. Plant Biology, 2015, 17, 335-343.	3.8	26
22	Light, temperature, dry afterâ€ripening and salt stress effects on seed germination of <scp>Phleum sardoum</scp> (<scp>H</scp>ackel) <scp>H</scp>ackel. Plant Species Biology, 2014, 29, 300-305.	1.0	24
23	Comparative germination ecology of the endemic Centranthus amazonum (Valerianaceae) and its widespread congener Centranthus ruber. Plant Species Biology, 2010, 25, 165-172.	1.0	23
24	Seed germination responses to varying environmental conditions and provenances in Crucianella maritima L., a threatened coastal species. Comptes Rendus - Biologies, 2012, 335, 26-31.	0.2	23
25	Effects of NaCl stress on seed germination and seedling development of Brassica insularis Moris (Brassicaceae). Plant Biology, 2017, 19, 368-376.	3.8	23
26	Climate shapes the seed germination niche of temperate flowering plants: a meta-analysis of European seed conservation data. Annals of Botany, 2022, 129, 775-786.	2.9	23
27	Identification of Sardinian Species ofAstragalusSectionMelanocercis(Fabaceae) by Seed Image Analysis. Annales Botanici Fennici, 2011, 48, 449-454.	0.1	22
28	Conservation of endemic insular plants: the genus Ribes L. (Grossulariaceae) in Sardinia. Oryx, 2012, 46, 219-222.	1.0	22
29	Inter- and intraspecific morphometric variability inJuniperusL. seeds (Cupressaceae). Systematics and Biodiversity, 2014, 12, 211-223.	1.2	21
30	Conserving seeds of useful wild plants in Mexico: main issues and recommendations. Genetic Resources and Crop Evolution, 2017, 64, 1141-1190.	1.6	21
31	Thermal thresholds for seed germination in Mediterranean species are higher in mountain compared with lowland areas. Seed Science Research, 2019, 29, 44-54.	1.7	21
32	Conservation genetics of two island endemic <scp>R</scp>ibes spp. (<scp>G</scp>rossulariaceae) of <scp>S</scp>ardinia: survival or extinction?. Plant Biology, 2015, 17, 1085-1094.	3.8	20
33	Genetic variability of the narrow endemic Rhamnus persicifolia Moris (Rhamnaceae) and its implications for conservation. Biochemical Systematics and Ecology, 2011, 39, 477-484.	1.3	19
34	Rapid adaptation of seed germination requirements of the threatened Mediterranean species Malcolmia littorea (Brassicaceae) and implications for its reintroduction. South African Journal of Botany, 2014, 94, 46-50.	2.5	19
35	Sequential temperature control of multi-phasic dormancy release and germination ofPaeonia corsicaseeds. Journal of Plant Ecology, 2016, 9, 464-473.	2.3	19
36	Conservation of indigenous plants to support community livelihoods: the MGU â€“ Useful Plants Project. Journal of Environmental Planning and Management, 2017, 60, 668-683.	4.5	19

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37	Native trees of Mexico: diversity, distribution, uses and conservation. PeerJ, 2020, 8, e9898.	2.0	19
38	Dissecting seed dormancy and germination in Aquilegia barbaricina, through thermal kinetics of embryo growth. Plant Biology, 2017, 19, 983-993.	3.8	18
39	Geographic isolation affects inter- and intra-specific seed variability in the Astragalus tragacantha complex, as assessed by morpho-colorimetric analysis. Comptes Rendus - Biologies, 2013, 336, 102-108.	0.2	16
40	Floristic Traits and Biogeographic Characterization of the Gennargentu Massif (Sardinia). Candollea, 2013, 68, 209.	0.2	15
41	Thermal requirements for seed germination of underutilized Lippia species. South African Journal of Botany, 2017, 109, 223-230.	2.5	15
42	Thermal Time and Cardinal Temperatures for Germination of Cedrela odorata L.. Forests, 2019, 10, 841.	2.1	14
43	Seed dormancy and germination ecology of Lamyropsis microcephala: a mountain endemic species of Sardinia (Italy). Seed Science and Technology, 2009, 37, 491-497.	1.4	13
44	Ecological remarks onAstragalus maritimusandA. verrucosus, two threatened exclusive endemic species of Sardinia. Acta Botanica Gallica, 2011, 158, 79-91.	0.9	13
45	Effects of pre-treatments and temperature on seed viability and germination of Juniperus macrocarpa Sm.. Comptes Rendus - Biologies, 2014, 337, 338-344.	0.2	13
46	Effect of temperature and cold stratification on seed germination of the Mediterranean wild aromatic Clinopodium sandalioticum (Lamiaceae). Plant Biosystems, 2016, 150, 846-850.	1.6	12
47	Variability on morphological and ecological seed traits of Limonium avei (<scp>D</scp>e) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Species Biology, 2017, 32, 368-379.	1.0	12
48	Assessing seed desiccation responses of native trees in the Caribbean. New Forests, 2020, 51, 705-721.	1.7	12
49	Correlated evolution of seed mass and genome size varies among life forms in flowering plants. Seed Science Research, 2022, 32, 46-52.	1.7	12
50	Dependency of seed dormancy types on embryo traits and environmental conditions in <scp>R</scp>ibes species. Plant Biology, 2014, 16, 740-747.	3.8	11
51	Functional seed traits and germination patterns predict species coexistence in Northeast Mediterranean foredune communities. Annals of Botany, 2021, 127, 361-370.	2.9	11
52	Preliminary assessment of the genetic diversity inLamyropsis microcephala(Asteraceae). Plant Biosystems, 2013, 147, 500-507.	1.6	10
53	Understanding biological and ecological factors affecting seed germination of the multipurpose tree Anogeissus leiocarpa. Plant Biology, 2018, 20, 602-609.	3.8	9
54	Interâ€•and intraâ€variability of seed germination traits of Carpobrotus edulis N.E.Br. and its hybrid C. affine acinaciformis. Plant Biology, 2018, 20, 1059-1067.	3.8	9

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55	Seeds as natural capital. Trends in Plant Science, 2022, 27, 139-146.	8.8	9
56	Seed Production andin situGermination ofLamyropsis microcephala(Asteraceae), a Threatened Mediterranean Mountain Species. Arctic, Antarctic, and Alpine Research, 2012, 44, 343-349.	1.1	8
57	A new species of Aquilegia (Ranunculaceae) from Sardinia (Italy) . Phytotaxa, 2015, 56, 59.	0.3	8
58	Regeneration in recalcitrant-seeded species and risks from climate change. , 2022, , 259-273.		8
59	Effects of temperature, light and pre-chilling on germination of Rhamnus persicifolia, an endemic tree species of Sardinia (Italy). Seed Science and Technology, 2009, 37, 758-764.	1.4	7
60	Differential Interpretation of Mountain Temperatures by Endospermic Seeds of Three Endemic Species Impacts the Timing of In Situ Germination. Plants, 2020, 9, 1382.	3.5	7
61	Thermal niche for germination and early seedling establishment at the leading edge of two pine species, under a changing climate. Environmental and Experimental Botany, 2021, 181, 104288.	4.2	7
62	Germplasm image analysis of <i>Astragalus maritimus</i> and <i>A. verrucosus</i> of Sardinia (subgen. <i>Trimeniaeus</i>, Fabaceae). Anales Del Jardin Botanico De Madrid, 2008, 65, .	0.4	6
63	Integration of genetic and seed fitness data to the conservation of isolated subpopulations of the Mediterranean plant Malcolmia littorea. Plant Biology, 2018, 20, 203-213.	3.8	5
64	Thermal Niche for Seed Germination and Species Distribution Modelling of Swietenia macrophylla King (Mahogany) under Climate Change Scenarios. Plants, 2021, 10, 2377.	3.5	5
65	Regional responsibility for plant conservation: The 2010 GSPC Target 8 in Sardinia. Plant Biosystems, 0, , 1-5.	1.6	4
66	Ecological and morphological seed traits of Polygala sardoa and P. sinisica: A comparative study on two endemic species of Sardinia. Flora: Morphology, Distribution, Functional Ecology of Plants, 2010, 205, 825-831.	1.2	3
67	Seasonality effects on plant phenology and seed ecology in Oritrophium peruvianum (Asteraceae), a threatened tropical alpine species. South African Journal of Botany, 2013, 88, 278-285.	2.5	3
68	Lamyropsisgenus in the Mediterranean area: Phylogenetic position ofL. microcephala(Asteraceae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	3
69	Studi di biologia della conservazione di specie vegetali endemiche della Sardegna nell'ambito del progetto â€œGENMEDOCâ€. Webbia, 2008, 63, 293-307.	0.3	2
70	A new seed bank for Hispaniola to support the conservation and sustainable use of the Caribbean native flora. Oryx, 2017, 51, 394-395.	1.0	2
71	Morphological and functional seed traits of the wild medicinal plantDioscorea strydomiana, the most threatened yam in the world. Plant Biology, 2019, 21, 515-522.	3.8	2
72	Enhancing Food Security through Seed Banking and Use of Wild Plants: Case Studies from the Royal Botanic Gardens, Kew. , 2019, , 32-38.		2

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73	Climate change and plant regeneration from seeds in Mediterranean regions of the Northern Hemisphere. , 2022, , 101-114.		2
74	Territory defence throughout conservation of the plant diversity: the project of the Protected Sea Area of Capo Carbonara (South eastern Sardinia). , 2006, , .		1
75	Interaction of functional and environmental traits on seed germination of the multipurpose tree Flacourtia indica. South African Journal of Botany, 2019, 125, 427-433.	2.5	1
76	Physiological and environmental control of seed germination timing in Mediterranean mountain populations of Gundelia tournefortii. Plant Growth Regulation, 0, , 1.	3.4	1
77	The role of fruit traits on the germination of Mesosphaerum suaveolens and Cantinoa americana (Lamiaceae), two pesticidal plant species. Scientia Horticulturae, 2022, 295, 110839.	3.6	1
78	Enhancing science-based conservation of the threatened flora of Sardinia. Oryx, 2016, 50, 205-205.	1.0	0