

Mario Tomazello-Filho

List of Publications by Year in descending order

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99
papers

1,319
citations

394421

19
h-index

454955

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102
all docs

102
docs citations

102
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Tree-Ring Formation, Radial Increment Periodicity, and Phenology of Tree Species from a Seasonal Semi-Deciduous Forest in Southeast Brazil. <i>IAWA Journal</i> , 2008, 29, 189-207.	2.7	114
2	Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. <i>Biogeosciences</i> , 2016, 13, 2537-2562.	3.3	108
3	A systems biology view of wood formation in <i>Eucalyptus grandis</i> trees submitted to different potassium and water regimes. <i>New Phytologist</i> , 2019, 223, 766-782.	7.3	48
4	Annual growth rings in a sample of Paran pine (<i>Araucaria angustifolia</i>): Toward improving the 14C calibration curve for the Southern Hemisphere. <i>Quaternary Geochronology</i> , 2015, 25, 96-103.	1.4	40
5	Tropical tree growth driven by dry-season climate variability. <i>Nature Geoscience</i> , 2022, 15, 269-276.	12.9	38
6	CAMBIAL GROWTH PERIODICITY STUDIES OF SOUTH AMERICAN WOODY SPECIES – A REVIEW. <i>IAWA Journal</i> , 2013, 34, 213-230.	2.7	37
7	Plasticity in xylem anatomical traits of two tropical species in response to intra-seasonal climate variability. <i>Trees - Structure and Function</i> , 2015, 29, 423-435.	1.9	37
8	Efeito da idade e posio de amostragem na densidade e caractersticas anatmicas da madeira de <i>Eucalyptus grandis</i> . <i>Revista Arvore</i> , 2012, 36, 1183-1190.	0.5	36
9	APPLICATION OF X-RAY TECHNIQUE IN NONDESTRUCTIVE EVALUATION OF EUCALYPT WOOD. <i>Maderas: Ciencia Y Tecnologia</i> , 2008, 10, .	0.7	32
10	Monitoring of the environmental pollution by trace element analysis in tree-rings using synchrotron radiation total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1170-1174.	2.9	29
11	Characterisation of the bending stiffness components of MDF panels from full-field slope measurements. <i>Wood Science and Technology</i> , 2013, 47, 423-441.	3.2	28
12	Sensitivity of tree ring growth to local and large-scale climate variability in a region of Southeastern Brazil. <i>Theoretical and Applied Climatology</i> , 2016, 123, 233-245.	2.8	26
13	Source-driven remobilizations of nutrients within stem wood in <i>Eucalyptus grandis</i> plantations. <i>Trees - Structure and Function</i> , 2013, 27, 827-839.	1.9	25
14	Use of coffee (<i>Coffea arabica</i>) pulp for the production of briquettes and pellets for heat generation. <i>Ciencia E Agrotecnologia</i> , 2014, 38, 461-470.	1.5	25
15	Recent radial growth decline in response to increased drought conditions in the northernmost <i>Nothofagus</i> populations from South America. <i>Forest Ecology and Management</i> , 2018, 409, 94-104.	3.2	25
16	Avaliao da retratibilidade da madeira de sete espcies de <i>Eucalyptus</i> . <i>Revista Arvore</i> , 2010, 34, 929-936.	0.5	25
17	Crescimento em dimetro do tronco das rvores de <i>Eucalyptus grandis</i> W. Hill. ex. Maiden e relao com as variveis climticas e fertilizao mineral. <i>Revista Arvore</i> , 2010, 34, 979-990.	0.5	23
18	Production and quality analysis of pellets manufactured from five potential energy crops in the Northern Region of Costa Rica. <i>Biomass and Bioenergy</i> , 2016, 87, 84-95.	5.7	23

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19	Wood density of loblolly pine trees as affected by crown thinnings and harvest age in southern Brazil. <i>Wood Science and Technology</i> , 2018, 52, 465-485.	3.2	22
20	Studies on cambial activity: advances and challenges in the knowledge of growth dynamics of Brazilian woody species. <i>Anais Da Academia Brasileira De Ciencias</i> , 2014, 86, 277-284.	0.8	19
21	X-ray densitometry to assess internal seed morphology and quality. <i>Seed Science and Technology</i> , 2012, 40, 102-107.	1.4	18
22	Tree ring responses to climate variability of xerophytic thickets from South Soalara, Madagascar. <i>Dendrochronologia</i> , 2018, 49, 57-67.	2.2	17
23	Pilot study for MDF manufacture from sugarcane bagasse and eucalyptus fibers. <i>European Journal of Wood and Wood Products</i> , 2012, 70, 537-539.	2.9	16
24	Evaluation of X-ray densitometry to identify tree-ring boundaries of two deciduous species from semi-arid forests in Brazil. <i>Dendrochronologia</i> , 2017, 42, 94-103.	2.2	16
25	Growth-ring boundaries of tropical tree species: Aiding delimitation by long histological sections and wood density profiles. <i>Dendrochronologia</i> , 2021, 69, 125878.	2.2	16
26	Nutrient concentrations of 17- year-old <i>Pinus taeda</i> annual tree-rings analyzed by X-ray fluorescence microanalysis. <i>Dendrochronologia</i> , 2018, 52, 67-79.	2.2	15
27	Dendrochronology and dendroclimatology of <i>Ceiba speciosa</i> (A. St.-Hil.) Ravenna (Malvaceae) exposed to urban pollution in Rio de Janeiro city, Brazil. <i>Dendrochronologia</i> , 2019, 53, 104-113.	2.2	14
28	What is the temporal extension of edge effects on tree growth dynamics? A dendrochronological approach model using <i>Scleronema micranthum</i> (Ducke) Ducke trees of a fragmented forest in the Central Amazon. <i>Ecological Indicators</i> , 2019, 101, 133-142.	6.3	14
29	Synchrotron-based X-ray microscopy for assessing elements distribution and speciation in mangrove tree-rings. <i>Results in Chemistry</i> , 2021, 3, 100121.	2.0	14
30	Optimization of thermo-mechanical densification of bamboo. <i>Construction and Building Materials</i> , 2021, 298, 123860.	7.2	14
31	Quality of Pellets Made from Agricultural and Forestry Crops in Costa Rican Tropical Climates. <i>BioResources</i> , 2014, 10, .	1.0	14
32	Wood anatomy and growth rate of seasonally dry tropical forest trees in the Marañón River Valley, northern Peru. <i>Dendrochronologia</i> , 2019, 55, 135-145.	2.2	12
33	Accumulation of elements in annual tree rings measured by synchrotron x-ray fluorescence analysis. <i>X-Ray Spectrometry</i> , 2005, 34, 411-416.	1.4	11
34	Application of the X-ray densitometry in the evaluation of the quality and mechanical properties of biomass pellets. <i>Fuel Processing Technology</i> , 2015, 132, 62-73.	7.2	11
35	LEVANTAMENTO E CARACTERIZAÇÃO DE DUAS ESPÉCIES DO GÊNERO <i>UNCARIA</i> SCHREB. (RUBIACEAE) CORRENTES NO ESTADO DO ACRE, BRASIL. <i>Ecologia Aplicada</i> , 2016, 9, 19.	0.2	11
36	Exploring wood anatomy, density and chemistry profiles to understand the tree-ring formation in Amazonian tree species. <i>Dendrochronologia</i> , 2022, 71, 125915.	2.2	11

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37	EFEITO DA DISPONIBILIDADE HÁDRICA E DA APLICAÇÃO DE POTÁSSIO E SÓDIO NAS CARACTERÍSTICAS ANATÔMICAS DO LENHO JUVENIL DE <i>Eucalyptus grandis</i> . <i>Revista Arvore</i> , 2015, 39, 405-416.	0.5	10
38	Effect of pulp and paper mill sludge on the development of 17-year-old loblolly pine (<i>Pinus taeda</i> L.) trees in Southern Brazil. <i>Forest Ecology and Management</i> , 2018, 422, 179-189.	3.2	10
39	Drought and climate change incidence on hotspot Cedrela forests from the Mata Atlântica biome in southeastern Brazil. <i>Global Ecology and Conservation</i> , 2018, 15, e00408.	2.1	10
40	Space-resolved determination of the mineral nutrient content in tree-rings by X-ray fluorescence. <i>Science of the Total Environment</i> , 2020, 708, 134537.	8.0	10
41	The negative effect of lianas on tree growth varies with tree species and season. <i>Biotropica</i> , 2020, 52, 836-844.	1.6	10
42	Trace elements distribution in tropical tree rings through high-resolution imaging using LA-ICP-MS analysis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 68, 126872.	3.0	10
43	Influence of Wood Physical Properties on Charcoal from <i>Eucalyptus</i> spp.. <i>Floresta E Ambiente</i> , 2018, 25, .	0.4	9
44	Dynamics of erosion processes in the tropics: a dendrogeomorphological approach in an Ultisol of southeastern Brazil. <i>Plant and Soil</i> , 2019, 443, 369-386.	3.7	9
45	Evidence to wood biodeterioration of tropical species revealed by non-destructive techniques. <i>Science of the Total Environment</i> , 2019, 672, 357-369.	8.0	9
46	Clues to wood quality and production from analyzing ring width and density variabilities of fertilized <i>Pinus taeda</i> trees. <i>New Forests</i> , 2019, 50, 821-843.	1.7	9
47	Growth Assessment of Native Tree Species from the Southwestern Brazilian Amazonia by Post-AD 1950 14C Analysis: Implications for Tropical Dendroclimatology Studies and Atmospheric 14C Reconstructions. <i>Forests</i> , 2021, 12, 1177.	2.1	9
48	Effects of potassium/sodium fertilization and throughfall exclusion on growth patterns of <i>Eucalyptus grandis</i> W. Hill ex Maiden during extreme drought periods. <i>New Forests</i> , 2020, 51, 21-40.	1.7	8
49	Using dendrogeomorphology to estimate soil erosion in mixed native species and pine forests on Ultisols in Piracicaba, Brazil. <i>Geoderma Regional</i> , 2020, 21, e00276.	2.1	8
50	Alterações na qualidade da madeira de <i>Eucalyptus grandis</i> causadas pela adubação mineral. <i>Cerne</i> , 2014, 20, 251-258.	0.9	7
51	Growth ring analysis of <i>Euxylophora paraensis</i> through x-ray microdensitometry. <i>Ciencia Rural</i> , 2017, 47, .	0.5	7
52	Effect of tree spacing on growth and wood density of 38-year-old <i>Cariniana legalis</i> trees in Brazil. <i>Southern Forests</i> , 2018, 80, 311-318.	0.7	7
53	Influence of the wood physical properties on the charcoal physical and mechanical properties. <i>Scientia Forestalis/Forest Sciences</i> , 2016, 44, .	0.2	7
54	CHARACTERIZATION AND STATISTICAL CORRELATION BETWEEN CHARCOAL'S PHYSICAL AND MECHANICAL PROPERTIES OF <i>Eucalyptus</i> AND <i>Corymbia</i> CLONES. <i>Ciencia Florestal</i> , 2017, 27, 1095-1103.	0.3	7

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55	Application of growth rings and scars in exposed roots of <i>Schizolobium parahyba</i> as a tool for dating geomorphic processes in the State of São Paulo, Brazil. <i>Dendrochronologia</i> , 2018, 50, 1-9.	2.2	6
56	Wood and Briquette Density Under the Effect of Fertilizers and Water Regimes. <i>Floresta E Ambiente</i> , 2019, 26, .	0.4	6
57	Minimum temperature and evapotranspiration in Central Amazonian floodplains limit tree growth of <i>Nectandra amazonum</i> (Lauraceae). <i>Trees - Structure and Function</i> , 2021, 35, 1367-1384.	1.9	6
58	Inter-annual effects of potassium/sodium fertilization and water deficit on wood quality of <i>Eucalyptus grandis</i> trees over a full rotation. <i>Forest Ecology and Management</i> , 2021, 496, 119415.	3.2	6
59	Alterações nas características químicas da madeira com a substituição do K por Na em planta de eucalipto. <i>Revista Arvore</i> , 2014, 38, 569-578.	0.5	6
60	SELECTION OF PLUS TREES FOR GENETICALLY IMPROVED TEAK VARIETIES PRODUCED IN BENIN AND TOGO. <i>Bois Et Forets Des Tropiques</i> , 2017, 328, 55.	0.2	6
61	DENSITOMETRIA DE RAIOS X NA AVALIAÇÃO DA DENSIDADE EM PAINéis DE PARTÍCULAS. <i>Ciencia Florestal</i> , 2018, 28, 1151-1162.	0.3	6
62	Avaliação da rugosidade superficial da madeira de <i>Eucalyptus</i> sp submetida ao fresamento periférico. <i>Cerne</i> , 2014, 20, 471-476.	0.9	6
63	Density profile as a tool in assessing quality of new composite. <i>Materials Research</i> , 2014, 17, 138-145.	1.3	5
64	DENSITOMETRIA DE RAIOS X NA MADEIRA E CARVÃO DE CLONE DE <i>Eucalyptus grandis</i> W. Hill ex Maiden X <i>Eucalyptus urophylla</i> S. T. Blake1. <i>Revista Arvore</i> , 2016, 40, 155-162.	0.5	5
65	What tree rings can tell us about the competition between trees and lianas? A case study based on growth, anatomy, density, and carbon accumulation. <i>Dendrochronologia</i> , 2017, 42, 1-11.	2.2	5
66	PHYSIOLOGICAL DISORDERS AFFECTING DENDROMETRIC PARAMETERS AND EUCALYPTUS WOOD QUALITY FOR PULPING WOOD. <i>Cerne</i> , 2018, 24, 27-34.	0.9	5
67	Characterizing growth rings in the trees of Peru: A wood anatomical overview for potential applications in dendroecological-related fields. <i>Dendrochronologia</i> , 2020, 62, 125728.	2.2	5
68	Assessment of the dendrochronological potential of <i>Licaria bahiana</i> Kurz, an endemic laurel of lowland Atlantic forests in Brazil. <i>Acta Botanica Brasílica</i> , 2019, 33, 454-464.	0.8	5
69	Efeito da disponibilidade hídrica e da aplicação de potássio e sódio no crescimento em diâmetro do tronco de árvores de <i>Eucalyptus grandis</i> . <i>Scientia Forestalis/Forest Sciences</i> , 2017, 45, .	0.2	5
70	Can the impulse propagation speed from cross-section tomography explain the conditioned density of wood?. <i>Wood Science and Technology</i> , 2014, 48, 689-701.	3.2	4
71	ANATOMICAL, ULTRASTRUCTURAL, PHYSICAL AND MECHANICAL WOOD PROPERTIES OF TWO-YEAR-OLD <i>Eucalyptus grandis</i> – <i>Eucalyptus urophylla</i> CLONES. <i>Revista Arvore</i> , 2018, 42, .	0.5	4
72	Growth and wood density of <i>Pinus taeda</i> L. as affected by shelterwood harvest in a two-aged stand in Southern Brazil. <i>European Journal of Forest Research</i> , 2021, 140, 869-881.	2.5	4

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73	Variabilidade física e anatômica da madeira de <i>Khaya ivorensis</i> A. Chev. em diferentes espaçamentos de plantio. <i>Scientia Forestalis/Forest Sciences</i> , 2016, 44, .	0.2	4
74	Comparative analysis of anatomy and micro-densitometry of the growth rings of hardwoods and conifers, with emphasis on dendrochronology. <i>Scientia Forestalis/Forest Sciences</i> , 2016, 44, .	0.2	4
75	EFEITO DA APLICAÇÃO DO POTÁSSIO, DO SÓDIO E DA DISPONIBILIDADE HÍDRICA NA DENSIDADE APARENTE A 12% DE UMIDADE DO LENHO JUVENIL DE ÁRVORES DE <i>Eucalyptus grandis</i> . <i>Ciencia Florestal</i> , 2017, 27, 1017.	0.3	4
76	Interactions between the mechanical and hydraulic properties of <i>Eucalyptus</i> trees under different environmental conditions of fertilization and water availability. <i>BioResources</i> , 2019, 14, 7157-7168.	1.0	4
77	Avaliação da Dispersão de Sementes de <i>Pinus taeda</i> L. pela Análise dos Anéis de Crescimento de Árvores de Regeneração Natural. <i>Floresta E Ambiente</i> , 2017, 24, .	0.4	3
78	Wood anatomy and growth ring boundaries of <i>Copaifera lucens</i> (Fabaceae). <i>IAWA Journal</i> , 2018, 39, 395-405.	2.7	3
79	Amazonian trees show increased edge effects due to Atlantic Ocean warming and northward displacement of the Intertropical Convergence Zone since 1980. <i>Science of the Total Environment</i> , 2019, 693, 133515.	8.0	3
80	Wood hydrosystem of three cultivars of <i>Vitis vinifera</i> L. is modified in response to contrasting soils. <i>Plant and Soil</i> , 2021, 463, 573-588.	3.7	3
81	Amazon forest fragmentation and edge effects temporarily favored understory and midstory tree growth. <i>Trees - Structure and Function</i> , 2021, 35, 2059-2068.	1.9	3
82	Relação entre perfil de densidade e ligação interna de painéis OSB de <i>Pinus</i> spp. <i>Floresta E Ambiente</i> , 2014, 21, 349-357.	0.4	3
83	Análise de similaridade das árvores de <i>Cedrela</i> sp. sob diferentes condições de crescimento no leste do estado do Acre, Brasil. <i>Scientia Forestalis/Forest Sciences</i> , 2016, 44, .	0.2	3
84	Integrated system of equations for estimating stem volume, density, and biomass for Australian redcedar (<i>Toona ciliata</i>) plantations. <i>Canadian Journal of Forest Research</i> , 2017, 47, 681-689.	1.7	2
85	Anatomical variation in vascular attributes of wood of <i>Astronium fraxinifolium</i> Schott trees from the soil loan area of a hydroelectric plant and an experimental plantation. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 265, 151574.	1.2	2
86	Integrating species and successional classes for wood production in a mixed forest restoration system in a neotropical region. <i>Journal of Forestry Research</i> , 2021, 32, 2313-2321.	3.6	2
87	Caracterização morfológica e química da madeira de <i>Schizolobium amazonicum</i> aos 14 anos de plantios no estado de Rondônia. <i>Scientia Forestalis/Forest Sciences</i> , 2018, 46, .	0.2	2
88	Physical properties of <i>Guazuma crinita</i> by conventional methods and near infrared spectroscopy. <i>Maderas: Ciencia Y Tecnologia</i> , 2019, , 0-0.	0.7	2
89	Estimativa de parâmetros genéticos para caracteres silviculturais e densidade do lenho em teste de progênies de <i>Eucalyptus urophylla</i> . <i>Scientia Forestalis/Forest Sciences</i> , 2017, 45, .	0.2	2
90	Wood anatomy of the rare species <i>Dinizia jueirana-facao</i> (Fabaceae), Tabuleiros Atlantic Forest, Brazil. <i>Revista Brasileira De Botanica</i> , 2019, 42, 521-528.	1.3	1

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91	Effect of soil type on mean annual increment, wood anatomy and properties of 33-year-old <i>Corymbia citriodora</i> (Hook.), K. D. Hill, & L. A. S. Johnson. <i>Research, Society and Development</i> , 2021, 10, e558101019004.	0.1	1
92	Bioensaios em painéis confeccionados com eucalipto e bagaço de cana-de-açúcar. <i>Revista Arvore</i> , 2014, 38, 361-368.	0.5	1
93	Caracterização da estrutura anatômica, densidade básica e morfologia de cavacos da madeira de <i>Eucalyptus grandis</i> para a produção de painéis MDF. <i>Revista Arvore</i> , 2008, 32, 707-713.	0.5	1
94	Disponibilidade hídrica e fertilização mineral nas características da madeira e do carvão vegetal de <i>Eucalyptus grandis</i> W. Hill ex Maiden. <i>Ciencia Florestal</i> , 2019, 29, 1168.	0.3	1
95	High growth recovery ability of <i>Eucalyptus grandis</i> trees following a 3-year period of 80% throughfall reduction. <i>Forest Ecology and Management</i> , 2022, 503, 119766.	3.2	1
96	Brazilian cerrado species: wood characteristics. <i>Bioscience Journal</i> , 2020, 36, .	0.4	1
97	Comparative anatomy of oleoresin producing and non-producing trees of <i>Copaifera multijuga</i> Hayne in primary forests and plantations. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 263, 151552.	1.2	0
98	Morfologia das fibras do lenho de clones de <i>Eucalyptus urophylla</i> x <i>Eucalyptus grandis</i> em diferentes topografias e altitudes. <i>Scientia Forestalis/Forest Sciences</i> , 2017, 45, .	0.2	0
99	Variability in the physico-chemical properties of wood from <i>Eucalyptus robusta</i> depending on ecological growing conditions and forestry practices: The case of smallholdings in the Highlands of Madagascar. <i>Maderas: Ciencia Y Tecnologia</i> , 2020, , 0-0.	0.7	0