Maurizio Borin

List of Publications by Year
in descending order

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95 papers	2,903 citations	159525 30 h-index	197736 49 g-index
97 all docs	97 docs citations	97 times ranked	3270 citing authors

#	Article	IF	Citations
1	Chromium in Agricultural Soils and Crops: A Review. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	217
2	A review on the main affecting factors of greenhouse gases emission in constructed wetlands. Agricultural and Forest Meteorology, 2017, 236, 175-193.	1.9	157
3	Assessing reference evapotranspiration by the Hargreaves method in north-eastern Italy. Agricultural Water Management, 2014, 140, 20-25.	2.4	136
4	Effectiveness of buffer strips in removing pollutants in runoff from a cultivated field in North-East Italy. Agriculture, Ecosystems and Environment, 2005, 105, 101-114.	2.5	135
5	Multiple functions of buffer strips in farming areas. European Journal of Agronomy, 2010, 32, 103-111.	1.9	116
6	Ecological interpretation of weed flora dynamics under different tillage systems. Agriculture, Ecosystems and Environment, 1997, 66, 177-188.	2.5	112
7	Evaluation of Phragmites australis (Cav.) Trin. evapotranspiration in Northern and Southern Italy. Ecological Engineering, 2011, 37, 721-728.	1.6	92
8	Five year water and nitrogen balance for a constructed surface flow wetland treating agricultural drainage waters. Science of the Total Environment, 2007, 380, 38-47.	3.9	87
9	Performance of a hybrid constructed wetland treating piggery wastewater. Ecological Engineering, 2013, 51, 229-236.	1.6	75
10	Short-term effects of biochar and salinity on soil greenhouse gas emissions from a semi-arid Australian soil after re-wetting. Geoderma, 2017, 307, 267-276.	2.3	74
11	Effects of five macrophytes on nitrogen remediation and mass balance in wetland mesocosms. Ecological Engineering, 2012, 46, 34-42.	1.6	59
12	Abatement of NO3â€“N concentration in agricultural waters by narrow buffer strips. Environmental Pollution, 2002, 117, 165-168.	3.7	55
13	Biomass production and N balance of giant reed (Arundo donax L.) under high water and N input in Mediterranean environments. European Journal of Agronomy, 2013, 51, 117-119.	1.9	55
14	Life cycle assessment of a micro aquaponic system for educational purposes built using recovered material. Journal of Cleaner Production, 2018, 172, 3119-3127.	4.6	49
15	Controlled Drainage and Wetlands to Reduce Agricultural Pollution: A Lysimetric Study. Journal of Environmental Quality, 2001, 30, 1330-1340.	1.0	47
16	Efficiency of controlled drainage and subirrigation in reducing nitrogen losses from agricultural fields. Agricultural Water Management, 2010, 98, 343-352.	2.4	46
17	A Tool for the Evaluation of Irrigation Water Quality in the Arid and Semi-Arid Regions. Agronomy, 2018, 8, 23.	1.3	46
18	An integrated non-point source model-GIS system for selecting criteria of best management practices in the Po Valley, North Italy. Agriculture, Ecosystems and Environment, 2004, 102, 247-262.	2.5	45

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19	Effect of stocking density of fish on water quality and growth performance of European Carp and leafy vegetables in a low-tech aquaponic system. PLoS ONE, 2019, 14, e0217561.	1.1	42
20	Comparison of carbon balance in Mediterranean pilot constructed wetlands vegetated with different C4 plant species. Environmental Science and Pollution Research, 2015, 22, 2372-2383.	2.7	39
21	Performance of a narrow buffer strip in abating agricultural pollutants in the shallow subsurface water flux. Environmental Pollution, 2004, 131, 313-321.	3.7	38
22	Vegetation contribution on phosphorus removal in constructed wetlands. Ecological Engineering, 2020, 152, 105853.	1.6	36
23	A simplified process of swine slurry treatment by primary filtration and Haematococcus pluvialis culture to produce low cost astaxanthin. Ecological Engineering, 2016, 90, 244-250.	1.6	35
24	Analysis of DRAINMOD performances with different detail of soil input data in the Veneto region of Italy. Agricultural Water Management, 2000, 42, 259-272.	2.4	34
25	Treatment performance and greenhouse gas emission of a pilot hybrid constructed wetland system treating digestate liquid fraction. Ecological Engineering, 2016, 94, 406-417.	1.6	34
26	Wetland plants, micro-organisms and enzymatic activities interrelations in treating N polluted water. Ecological Engineering, 2012, 47, 36-43.	1.6	33
27	Treatment performance and macrophytes growth in a restored hybrid constructed wetland for municipal wastewater treatment. Ecological Engineering, 2017, 107, 160-171.	1.6	33
28	Multi-functional pollution mitigation in a rehabilitated mangrove conservation area. Ecological Engineering, 2009, 35, 898-907.	1.6	32
29	Temperature influence on nitrogen removal in a hybrid constructed wetland system in Northern Italy. Ecological Engineering, 2015, 75, 291-302.	1.6	31
30	Newly-established free water-surface constructed wetland to treat agricultural waters in the low-lying Venetian plain: Performance on nitrogen and phosphorus removal. Science of the Total Environment, 2018, 639, 852-859.	3.9	31
31	On the Use of Multivariate Analysis and Land Evaluation for Potential Agricultural Development of the Northwestern Coast of Egypt. Agronomy, 2020, 10, 1318.	1.3	30
32	Hydroponic systems and water management in aquaponics: a review. Italian Journal of Agronomy, 0, 11, .	0.4	29
33	Role of C3 plant species on carbon dioxide and methane emissions in Mediterranean constructed wetland. Italian Journal of Agronomy, 2014, 9, 120.	0.4	28
34	Vegetated Ditches for the Mitigation of Pesticides Runoff in the Po Valley. PLoS ONE, 2016, 11, e0153287.	1.1	28
35	Tech-IA floating system introduced in urban wastewater treatment plants in the Veneto region â€“ Italy. Water Science and Technology, 2013, 68, 1144-1150.	1.2	27
36	Mitigation of herbicide runoff as an ecosystem service from a constructed surface flow wetland. Hydrobiologia, 2016, 774, 193-202.	1.0	27

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37	Crop yield and energy use in organic and conventional farming: A case study in north-east Italy. European Journal of Agronomy, 2017, 86, 37-47.	1.9	27
38	Green walls to treat kitchen greywater in urban areas: Performance from a pilot-scale experiment. Science of the Total Environment, 2021, 757, 144189.	3.9	27
39	Performance of a wall cascade constructed wetland treating surfactant-polluted water. Environmental Science and Pollution Research, 2015, 22, 12816-12828.	2.7	26
40	Vegetable Intercropping in a Small-Scale Aquaponic System. Agronomy, 2017, 7, 63.	1.3	26
41	Comparison of nitrogen elimination rates of different constructed wetland designs. Water Science and Technology, 2011, 64, 1122-1129.	1.2	25
42	Biomass production and soil organic carbon accumulation in a free water surface constructed wetland treating agricultural wastewater in North Eastern Italy. Ecological Engineering, 2014, 70, 422-428.	1.6	25
43	Carbon dioxide emissions from horizontal sub-surface constructed wetlands in the Mediterranean Basin. Ecological Engineering, 2014, 64, 57-61.	1.6	23
44	Energy characterisation of herbaceous biomasses irrigated with marginal waters. Biomass and Bioenergy, 2014, 70, 392-399.	2.9	23
45	Effect of different macrophytes in abating nitrogen from a synthetic wastewater. Ecological Engineering, 2010, 36, 1222-1231.	1.6	21
46	Performance of two small subsurface flow constructed wetlands treating domestic wastewaters in Italy. Environmental Technology (United Kingdom), 2013, 34, 1085-1095.	1.2	21
47	Water table management to save water and reduce nutrient losses from agricultural fields: 6 years of experience in North-Eastern Italy. Agricultural Water Management, 2018, 201, 1-10.	2.4	21
48	Screening of 18 species for digestate phytodepuration. Environmental Science and Pollution Research, 2015, 22, 2455-2466.	2.7	20
49	Plant species effect on CO2 and CH4 emissions from pilot constructed wetlands in Mediterranean area. Ecological Engineering, 2019, 134, 112-117.	1.6	20
50	Barley, Soybean and Maize Production using Ridge Tillage, No-Tillage and Conventional Tillage in North-East Italy. Biosystems Engineering, 1995, 62, 229-236.	0.4	19
51	Effect of injection depth of digestate liquid fraction on soil carbon dioxide emission and maize biomass production. Italian Journal of Agronomy, 2016, 11, 6-11.	0.4	19
52	Assessing Stormwater Nutrient and Heavy Metal Plant Uptake in an Experimental Bioretention Pond. Land, 2018, 7, 150.	1.2	18
53	Responses of Different Panicum miliaceum L. Genotypes to Saline and Water Stress in a Marginal Mediterranean Environment. Agronomy, 2018, 8, 8.	1.3	18
54	Treatment performances of floating wetlands: A decade of studies in North Italy. Ecological Engineering, 2020, 158, 106016.	1.6	17

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55	Controlled drainage and crop production in a long-term experiment in North-Eastern Italy. Agricultural Water Management, 2019, 222, 21-29.	2.4	16
56	Biomethanation Potential of Wetland Biomass in Codigestion with Pig Slurry. Waste and Biomass Valorization, 2016, 7, 1081-1089.	1.8	15
57	Assessing the water-purification service in an integrated agricultural wetland within the Venetian Lagoon drainage system. Marine and Freshwater Research, 2017, 68, 2205.	0.7	15
58	Effects of digestate solid fraction fertilisation on yield and soil carbon dioxide emission in a horticulture succession. Italian Journal of Agronomy, 2017, 12, .	0.4	15
59	Effects of four cultivation systems for maize on nitrogen leaching 1. Field experiment. European Journal of Agronomy, 1997, 6, 101-112.	1.9	14
60	Compost as a Substitute for Mineral N Fertilization? Effects on Crops, Soil and N Leaching. Agronomy, 2019, 9, 193.	1.3	14
61	Plant species for floating treatment wetlands: A decade of experiments in North Italy. Science of the Total Environment, 2021, 751, 141666.	3.9	14
62	Sorghum Biomass Production for Energy Purpose Using Treated Urban Wastewater and Different Fertilization in a Mediterranean Environment. Agriculture (Switzerland), 2016, 6, 67.	1.4	12
63	Bioethanol and biomethane potential production of thirteen pluri-annual herbaceous species. Industrial Crops and Products, 2019, 129, 694-701.	2.5	12
64	Digestate Liquid Fraction Treatment with Filters Filled with Recovery Materials. Water (Switzerland), 2021, 13, 21.	1.2	11
65	Simulation of herbicide contamination of the aquifer north of Vicenza (North-East Italy). Chemosphere, 1993, 26, 929-940.	4.2	10
66	Assessment of energy potential from wetland plants along the minor channel network on an agricultural floodplain. Environmental Science and Pollution Research, 2015, 22, 2479-2490.	2.7	10
67	Distillery anaerobic digestion residues: A new opportunity for sweet potato fertilization. Scientia Horticulturae, 2017, 225, 38-47.	1.7	10
68	Olive mill wastewater spreading and AMF inoculation effects in a low-input semi-arid Mediterranean crop succession. Archives of Agronomy and Soil Science, 2018, 64, 2060-2074.	1.3	10
69	Medium-term evolution of soil properties in a constructed surface flow wetland with fluctuating hydroperiod in North Eastern Italy. Desalination, 2009, 246, 215-225.	4.0	9
70	Root system characterization and water requirements of ten perennial herbaceous species for biomass production managed with high nitrogen and water inputs. Agricultural Water Management, 2018, 196, 37-47.	2.4	9
71	Multi-Year N and P Removal of a 10-Year-Old Surface Flow Constructed Wetland Treating Agricultural Drainage Waters. Agronomy, 2019, 9, 170.	1.3	9
72	Ligneous-cellulosic, nitrophilous and wetland plants for biomass production and watertable protection against nutrient leaching. European Journal of Agronomy, 2018, 96, 77-86.	1.9	8

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73	Buffer Strips on the Lowâ€Lying Plain of Veneto Region (Italy): Environmental Benefits and Efficient Use of Wood as an Energy Resource. Journal of Environmental Quality, 2019, 48, 280-288.	1.0	8
74	Composition and quality traits of vegetables grown in a lowâ€tech aquaponic system at different fish stocking densities. Journal of the Science of Food and Agriculture, 2020, 100, 4310-4318.	1.7	8
75	Can Long-Term Experiments Predict Real Field N and P Balance and System Sustainability? Results from Maize, Winter Wheat, and Soybean Trials Using Mineral and Organic Fertilisers. Agronomy, 2021, 11, 1472.	1.3	8
76	Pipe drainage in the Eastern Padano-Veneta plain in north-east Italy. Irrigation and Drainage Systems, 1997, 11, 61-81.	0.5	7
77	Effects of Drought on Yield and Nutraceutical Properties of Beans (Phaseolus spp.) Traditionally Cultivated in Veneto, Italy. Horticulturae, 2021, 7, 17.	1.2	7
78	Influence of salinity and osmotic stress on germination process in an old sicilian landrace and a modern cultivar of Triticum Durum Desf.. Cereal Research Communications, 2018, 46, 253-262.	0.8	6
79	Uptake and translocation of perfluoroalkyl acids by hydroponically grown lettuce and spinach exposed to spiked solution and treated wastewaters. Science of the Total Environment, 2021, 772, 145523.	3.9	6
80	Modelling assessment of carbon supply by different macrophytes for nitrogen removal in pilot vegetated mesocosms. International Journal of Environmental Analytical Chemistry, 2011, 91, 708-726.	1.8	5
81	Phytomanagement of Chromium-Contaminated Soils Using Cannabis sativa (L.). Agronomy, 2020, 10, 1223.	1.3	5
82	Effects of mycorrhizal inoculation and digestate fertilisation on triticale biomass production using fungicide-coated seeds. Irish Journal of Agricultural and Food Research, 2018, 57, 42-51.	0.2	5
83	A constructed surface flow wetland for treating agricultural waste waters. Water Science and Technology, 2001, 44, 523-30.	1.2	4
84	Testing and statistical analysis of the performance of a pipe drainage system: A case study in north-eastern Italy. Irrigation and Drainage Systems, 1991, 5, 165-182.	0.5	3
85	Environment, agro-system and quality of food production in Italy. Italian Journal of Agronomy, 2017, 11, .	0.4	3
86	Short-term climate change effects on maize phenological phases in northeast Italy. Italian Journal of Agronomy, 2019, 14, 222-229.	0.4	3
87	Molecular Hallmarks, Agronomic Performances and Seed Nutraceutical Properties to Exploit Neglected Genetic Resources of Common Beans Grown by Organic Farming in Two Contrasting Environments. Frontiers in Plant Science, 2021, 12, 674985.	1.7	3
88	Emerged macrophytes to the rescue: Perfluoroalkyl acid removal from wastewater and spiked solutions. Journal of Environmental Management, 2022, 309, 114703.	3.8	3
89	CO2 Emissions and Maize Biomass Production Using Digestate Liquid Fraction in Two Soil Texture Types. Transactions of the ASABE, 2017, 60, 1325-1336.	1.1	2
90	Fertimetro, a Principle and Device to Measure Soil Nutrient Availability for Plants by Microbial Degradation Rates on Differently-Spiked Buried Threads. Soil Systems, 2019, 3, 3.	1.0	2

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91	Ornamental plants for floating treatment wetlands: preliminary results. Italian Journal of Agronomy, 2020, 15, .	0.4	2
92	Evaluating a Controlled-Release Fertilizer for Plant Establishment in Floating Elements for Bioretention Ponds. Agronomy, 2020, 10, 199.	1.3	2
93	Nitrogen budget in recirculating aquaponic systems with different fish stocking density. Italian Journal of Agronomy, 2020, 15, 239-245.	0.4	1
94	From a Precision Agriculture Consortium to a Dual Masterâ€™s Degree in Sustainable Agriculture. Advances in Animal Biosciences, 2017, 8, 738-742.	1.0	0
95	Insights about the Choice of Pig Manure Processing System in Three Italian Regions: Piemonte, Friuli Venezia Giulia, and Veneto. Sustainability, 2021, 13, 787.	1.6	0