Marty D Matlock

List of Publications by Year
in descending order

50 papers	1,700 citations	430874 18 h-index	289244 40 g-index
60 all docs	60 docs citations	60 times ranked	2140 citing authors

#	Article	IF	Citations
1	Change in ecosystem service values in the San Antonio area, Texas. Ecological Economics, 2001, 39, 333-346.	5.7	428
2	Quantifying and mapping multiple ecosystem services change in West Africa. Agriculture, Ecosystems and Environment, 2013, 165, 6-18.	5.3	304
3	Greenhouse gas emissions from milk production and consumption in the United States: A cradle-to-grave life cycle assessment circa 2008. International Dairy Journal, 2013, 31, S3-S14.	3.0	166
4	Environmental sustainability of fruit and vegetable production supply chains in the face of climate change: A review. Science of the Total Environment, 2019, 650, 2863-2879.	8.0	135
5	Regional analysis of greenhouse gas emissions from USA dairy farms: A cradle to farm-gate assessment of the American dairy industry circa 2008. International Dairy Journal, 2013, 31, S29-S40.	3.0	76
6	Seasonal productivity of a periphytic algal community for biofuel feedstock generation and nutrient treatment. Ecological Engineering, 2011, 37, 1476-1480.	3.6	50
7	LIMITING NUTRIENT DETERMINATION IN LOTIC ECOSYSTEMS USING A QUANTITATIVE NUTRIENT ENRICHMENT PERIPHYTOMETER. Journal of the American Water Resources Association, 1998, 34, 1141-1147.	2.4	36
8	Measuring variability in trophic status in the Lake Waco/Bosque River Watershed. Journal of Biological Engineering, 2008, 2, 1.	4.7	34
9	SEDIMENT OXYGEN DEMAND IN THE ARROYO COLORADO RIVER. Journal of the American Water Resources Association, 2003, 39, 267-275.	2.4	32
10	Cradle to grave environmental impact evaluation of the consumption of potato and tomato products. Science of the Total Environment, 2021, 758, 143662.	8.0	29
11	Recovery of nutrients from swine wastewater using ultrafiltration: Applications for microalgae cultivation in photobioreactors. Ecological Engineering, 2016, 94, 75-81.	3.6	28
12	A retrospective analysis of the United States poultry industry: 1965 compared with 2010. Agricultural Systems, 2017, 157, 107-117.	6.1	25
13	Assessing the impact of the MRBI program in a data limited Arkansas watershed using the SWAT model. Agricultural Water Management, 2018, 202, 202-219.	5.6	25
14	Sediment Phosphorus Release at Beaver Reservoir, Northwest Arkansas, USA, 2002â€“2003: A Preliminary Investigation. Water, Air, and Soil Pollution, 2007, 179, 67-77.	2.4	24
15	Science in the Supply Chain: Collaboration Opportunities for Advancing Sustainable Agriculture in the United States. Agricultural and Environmental Letters, 2017, 2, 170015.	1.2	22
16	Electrochemical ammonia removal and disinfection of aquaculture wastewater using batch and flow reactors incorporating PtRu/graphite anode and graphite cathode. Aquacultural Engineering, 2021, 93, 102155.	3.1	22
17	Geospatial analysis of potential water use, water stress, and eutrophication impacts from US dairy production. International Dairy Journal, 2013, 31, S78-S90.	3.0	20
18	Hydrodynamic regime considerations for the cultivation of periphytic biofilms in two tertiary wastewater treatment systems. Ecological Engineering, 2014, 71, 527-532.	3.6	18

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19	Comparison of process-based models to quantify nutrient flows and greenhouse gas emissions associated with milk production. Agriculture, Ecosystems and Environment, 2017, 237, 31-44.	5.3	18
20	A WATERSHED-LEVEL ECOLOGICAL RISK ASSESSMENT METHODOLOGY. Journal of the American Water Resources Association, 1996, 32, 1039-1054.	2.4	17
21	Ecological engineering: A rationale for standardized curriculum and professional certification in the United States. Ecological Engineering, 2001, 17, 403-409.	3.6	16
22	Identification and evaluation of nutrient limitation on periphyton growth in headwater streams in the Pawnee Nation, Oklahoma. Ecological Engineering, 2008, 32, 178-186.	3.6	15
23	DEVELOPMENT AND APPLICATION OF A LOTIC ECOSYSTEM TROPHIC STATUS INDEX. Transactions of the American Society of Agricultural Engineers, 1999, 42, 651-656.	0.9	14
24	Cradle-to-grave life cycle assessment of production and consumption of pulses in the United States. Journal of Environmental Management, 2022, 302, 114062.	7.8	13
25	Climate adaptation imperatives: global sustainability trends and eco-efficiency metrics in four major crops â€“ canola, cotton, maize, and soybeans. International Journal of Agricultural Sustainability, 2014, 12, 146-163.	3.5	12
26	Predicting changes in yield and water use in the production of corn in the United States under climate change scenarios. Ecological Engineering, 2015, 82, 555-565.	3.6	12
27	Electrochemical disinfection of irrigation water with a graphite electrode flow cell. Water Environment Research, 2021, 93, 535-548.	2.7	11
28	Protocol for life cycle assessment modeling of US fruit and vegetable supply chains- cases of processed potato and tomato products. Data in Brief, 2021, 34, 106639.	1.0	10
29	Supply chains for processed potato and tomato products in the United States will have enhanced resilience with planting adaptation strategies. Nature Food, 2021, 2, 862-872.	14.0	10
30	Life cycle assessment of alternative swine management practices. Journal of Animal Science, 2019, 97, 472-484.	0.5	8
31	Development and evaluation of a nondestructive measure of fish growth for sublethal toxicity assessment. Bulletin of Environmental Contamination and Toxicology, 1994, 53, 85-90.	2.7	5
32	A COLLABORATIVE LEARNING MATRIX FOR COMBINING SCIENCE WITH STAKEHOLDER INVOLVEMENT TO PRIORITIZE WATERSHED IMPLEMENTATION IN ARKANSAS' NONPOINT SOURCE STATE MANAGEMENT PLAN. Journal of Environmental Assessment Policy and Management, 2008, 10, 307-331.	7.9	5
33	How Potential Carbon Policies Could Affect Where and How Cotton Is Produced in the United States. Agricultural and Resource Economics Review, 2012, 41, 215-231.	1.1	5
34	Measuring ecosystem service change: A case study from a northwest Arkansas dairy farm. International Dairy Journal, 2013, 31, S91-S100.	3.0	5
35	An ecological risk assessment paradigm using the Spatially Integrated model for Phosphorus Loading and Erosion (SIMPLE). Journal of Aquatic Ecosystem Health, 1994, 3, 287-294.	0.4	4
36	Risk-Based Design of Aseptic Processing of Heterogeneous Food Products. Risk Analysis, 2000, 20, 405-412.	2.7	4

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37	Risk Indicators for Identifying Critical Source Areas in Five Arkansas Watersheds. Transactions of the ASABE, 2018, 61, 1025-1032.	1.1	4
38	Disinfection of Irrigation Water Using Titanium Electrodes. Journal of the Electrochemical Society, 2021, 168, 063502.	2.9	4
39	Defining Sustainability as Measurable Improvement in the Environment: Lessons from a Supply Chain Program for Agriculture in the United States. Strategies for Sustainability, 2020, , 133-153.	0.3	4
40	Post-Model Validation of a Deterministic Watershed Model Using Monitoring Data. Transactions of the ASABE, 2016, 59, 497-508.	1.1	2
41	Disinfection/ammonia removal from aquaculture wastewater and disinfection of irrigation water using electrochemical flow cells: A case study in Hawaii. Water Environment Research, 2021, 93, 2149-2168.	2.7	2
42	Periphyton Nutrient Limitation and Maximum Potential Productivity in the Beaver Lake Basin, United States¹. Journal of the American Water Resources Association, 2012, 48, 896-908.	2.4	1
43	Analysis of the HSPF Model for Predicting In-stream Fecal Coliform Concentrations. , 2002, , .		0
44	Using a Spreadsheet-Based Model to Determine In-Stream Sediment Oxygen Demand from Simple Field and Lab Measurements. , 2003, , .		0
45	Stream nutrient dynamics and sediment nutrient interaction in an agricultural. , 2003, , .		0
46	Nutrient Limitation of Phytoplankton and Periphyton at Lake Eucha, Northeast Oklahoma, USA. , 2004, , .		0
47	Urban Stream Design for Ecological Services Restoration. , 2005, , 1.		0
48	The Context for Biotechnology in Sustainable Agriculture. , 0, , 239-251.		0
49	Scaling From Local to Global for Environmental Impacts From Agriculture. , 2019, , 415-423.		0
50	Demonstration of Greenway Development to Protect Ecological Services in Small Urban Streams. , 0, , .		0