

# Donna M Rizzo

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,045  
citations

394421

19  
h-index

477307

29  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of increased persistence and intensity of precipitation in the northeastern United States. <i>Geophysical Research Letters</i> , 2015, 42, 1888-1893.	4.0	65
2	Temperature controls production but hydrology regulates export of dissolved organic carbon at the catchment scale. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 945-966.	4.9	64
3	A New Machine Learning Approach for Classifying Hysteresis in Suspended Sediment Discharge Relationships Using High-Frequency Monitoring Data. <i>Water Resources Research</i> , 2018, 54, 4040-4058.	4.2	60
4	The influence of riparian vegetation on near-bank turbulence: a flume experiment. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 2019-2037.	2.5	50
5	Spatial Optimization of Best Management Practices to Attain Water Quality Targets. <i>Water Resources Management</i> , 2014, 28, 1485-1499.	3.9	46
6	Streams as Mirrors: Reading Subsurface Water Chemistry From Stream Chemistry. <i>Water Resources Research</i> , 2022, 58, e2021WR029931.	4.2	41
7	Uncovering vector, parasite, blood meal and microbiome patterns from mixed-DNA specimens of the Chagas disease vector <i>Triatoma dimidiata</i> . <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006730.	3.0	38
8	Spatial distribution and geomorphic condition of fish habitat in streams: an analysis using hydraulic modelling and geostatistics. <i>River Research and Applications</i> , 2008, 24, 885-899.	1.7	35
9	Unraveling Associations between Cyanobacteria Blooms and In-Lake Environmental Conditions in Missisquoi Bay, Lake Champlain, USA, Using a Modified Self-Organizing Map. <i>Environmental Science &amp; Technology</i> , 2013, 47, 14267-14274.	10.0	35
10	Geospatial and Temporal Analysis of Thyroid Cancer Incidence in a Rural Population. <i>Thyroid</i> , 2015, 25, 812-822.	4.5	35
11	Quantile regression improves models of lake eutrophication with implications for ecosystem-specific management. <i>Freshwater Biology</i> , 2015, 60, 1841-1853.	2.4	30
12	Evaluating Spatial Variability in Sediment and Phosphorus Concentration-Discharge Relationships Using Bayesian Inference and Self-Organizing Maps. <i>Water Resources Research</i> , 2017, 53, 10293-10316.	4.2	30
13	Minimal East Antarctic Ice Sheet retreat onto land during the past eight million years. <i>Nature</i> , 2018, 558, 284-287.	27.8	27
14	Application of unmanned aircraft system (UAS) for monitoring bank erosion along river corridors. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1285-1305.	4.3	26
15	Subsurface characterization of groundwater contaminated by landfill leachate using microbial community profile data and a nonparametric decision-making process. <i>Water Resources Research</i> , 2011, 47, .	4.2	25
16	Quantifying streambank movement and topography using unmanned aircraft system photogrammetry with comparison to terrestrial laser scanning. <i>River Research and Applications</i> , 2017, 33, 1354-1367.	1.7	25
17	Social-psychological determinants of farmer intention to adopt nutrient best management practices: Implications for resilient adaptation to climate change. <i>Journal of Environmental Management</i> , 2020, 276, 111304.	7.8	24
18	Enhanced detection of groundwater contamination from a leaking waste disposal site by microbial community profiles. <i>Water Resources Research</i> , 2010, 46, .	4.2	21

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19	Identifying the spatial pattern and importance of hydrogeomorphic drainage impairments on unpaved roads in the northeastern USA. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1652-1665.	2.5	20
20	Water Pollution and Environmental Concerns in Anesthesiology. <i>Journal of Medical Systems</i> , 2020, 44, 169.	3.6	20
21	Identifying <i>Connectional Silence</i> in Palliative Care Consultations: A Tandem Machine-Learning and Human Coding Method. <i>Journal of Palliative Medicine</i> , 2018, 21, 1755-1760.	1.1	18
22	Coupling self-organizing maps with a Naïve Bayesian classifier: Stream classification studies using multiple assessment data. <i>Water Resources Research</i> , 2013, 49, 7747-7762.	4.2	17
23	Developing a 21st Century framework for lake-specific eutrophication assessment using quantile regression. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 237-249.	2.0	17
24	Analysis of bridge and stream conditions of over 300 Vermont bridges damaged in Tropical Storm Irene. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 1437-1450.	3.7	16
25	Streamflow response to forest management. <i>Nature</i> , 2020, 578, E12-E15.	27.8	16
26	A multi-scale statistical approach to assess the effects of connectivity of road and stream networks on geomorphic channel condition. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1538-1549.	2.5	15
27	Immunotranscriptomic profiling the acute and clearance phases of a human challenge dengue virus serotype 2 infection model. <i>Nature Communications</i> , 2021, 12, 3054.	12.8	14
28	Assessing Linkages in Stream Habitat, Geomorphic Condition, and Biological Integrity Using a Generalized Regression Neural Network. <i>Journal of the American Water Resources Association</i> , 2013, 49, 415-430.	2.4	12
29	Residual survival and local dispersal drive reinfestation by <i>Triatoma dimidiata</i> following insecticide application in Guatemala. <i>Infection, Genetics and Evolution</i> , 2019, 74, 104000.	2.3	12
30	Multivariate event time series analysis using hydrological and suspended sediment data. <i>Journal of Hydrology</i> , 2021, 593, 125802.	5.4	12
31	Low-Temperature Soil Heating Using Renewable Energy. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 537-544.	1.4	11
32	Stochastic simulation and spatial estimation with multiple data types using artificial neural networks. <i>Water Resources Research</i> , 2007, 43, .	4.2	10
33	Pitfalls and Successes of Developing an Interdisciplinary Watershed Field Science Course. <i>Journal of Geoscience Education</i> , 2010, 58, 145-154.	1.4	10
34	Summer stream temperature metrics for predicting brook trout ( <i>Salvelinus fontinalis</i> ) distribution in streams. <i>Hydrobiologia</i> , 2013, 703, 47-57.	2.0	10
35	A Tandem Evolutionary Algorithm for Identifying Causal Rules from Complex Data. <i>Evolutionary Computation</i> , 2020, 28, 87-114.	3.0	9
36	Modeling the sensitivity of cyanobacteria blooms to plausible changes in precipitation and air temperature variability. <i>Science of the Total Environment</i> , 2022, 812, 151586.	8.0	9

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37	Modeling the drivers of interannual variability in cyanobacterial bloom severity using self-organizing maps and high-frequency data. <i>Inland Waters</i> , 2017, 7, 333-347.	2.2	8
38	Use of sacrificial embankments to minimize bridge damage from scour during extreme flow events. <i>Natural Hazards</i> , 2017, 87, 1469-1487.	3.4	8
39	Automated Detection of Conversational Pauses from Audio Recordings of Serious Illness Conversations in Natural Hospital Settings. <i>Journal of Palliative Medicine</i> , 2018, 21, 1724-1728.	1.1	8
40	Epidemiology of Fear, Sadness, and Anger Expression in Palliative Care Conversations. <i>Journal of Pain and Symptom Management</i> , 2021, 61, 246-253.e1.	1.2	8
41	Drivers of Dissolved Organic Carbon Mobilization From Forested Headwater Catchments: A Multi Scaled Approach. <i>Frontiers in Water</i> , 2021, 3, .	2.3	8
42	Quantifying the social benefits and costs of reducing phosphorus pollution under climate change. <i>Journal of Environmental Management</i> , 2021, 293, 112838.	7.8	8
43	A Formative Mixed-Methods Study of Emotional Responsiveness in Telepalliative Care. <i>Journal of Palliative Medicine</i> , 2022, 25, 1258-1267.	1.1	8
44	Forecasting vertical ground surface movement from shrinking/swelling soils with artificial neural networks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 1229-1245.	3.3	7
45	Applying Performance Frontiers in Operating Room Management. <i>A&amp;A Practice</i> , 2018, 11, 321-327.	0.4	7
46	Simulating hydraulic interdependence between bridges along a river corridor under transient flood conditions. <i>Science of the Total Environment</i> , 2020, 699, 134046.	8.0	7
47	Climate Change—Legacy Phosphorus Synergy Hinders Lake Response to Aggressive Water Policy Targets. <i>Earth's Future</i> , 2022, 10, .	6.3	6
48	Modeling the Influence of Public Risk Perceptions on the Adoption of Green Stormwater Infrastructure: An Application of Bayesian Belief Networks Versus Logistic Regressions on a Statewide Survey of Households in Vermont. <i>Water (Switzerland)</i> , 2020, 12, 2793.	2.7	4
49	A general model of conversational dynamics and an example application in serious illness communication. <i>PLoS ONE</i> , 2021, 16, e0253124.	2.5	4
50	Conversational stories & self organizing maps: Innovations for the scalable study of uncertainty in healthcare communication. <i>Patient Education and Counseling</i> , 2021, 104, 2616-2621.	2.2	4
51	Novel Evolutionary Algorithm Identifies Interactions Driving Infestation of <i>Triatoma dimidiata</i> , a Chagas Disease Vector. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 735-744.	1.4	4
52	Characterizing landscape—scale erosion using <sup>10</sup> Be in detrital fluvial sediment: Slope—based sampling strategy detects the effect of widespread dams. <i>Water Resources Research</i> , 2017, 53, 4476-4486.	4.2	3
53	Evaluating Damage to Vermont Bridges by Hurricane Irene with Multivariate Bridge Inspection and Stream Hydrogeologic Data. <i>Journal of Bridge Engineering</i> , 2020, 25, .	2.9	3
54	The Power Law in Operating Room Management. <i>Journal of Medical Systems</i> , 2021, 45, 92.	3.6	3

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55	<scp>Semi-automated</scp> hydraulic model wrapper to support stakeholder evaluation: A floodplain reconnection study using <scp>2D</scp> hydrologic engineering center's river analysis system. River Research and Applications, 2022, 38, 799-809.	1.7	3
56	Monitoring Perioperative Services Using 3D Multi-Objective Performance Frontiers. Journal of Medical Systems, 2021, 45, 34.	3.6	2
57	Counterpropagation Neural Network for Stochastic Conditional Simulation: An Application with Berea Sandstone. , 2007, , .		0
58	Does Hospital Room Environment Affect Serious Illness Conversation Dynamics?. Journal of Palliative Medicine, 2021, 24, 3-4.	1.1	0