

Mark E Fenn

List of Publications by Year in descending order

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61
papers

4,059
citations

172457

29
h-index

155660

55
g-index

64
all docs

64
docs citations

64
times ranked

3776
citing authors

#	ARTICLE	IF	CITATIONS
1	NITROGEN EXCESS IN NORTH AMERICAN ECOSYSTEMS: PREDISPOSING FACTORS, ECOSYSTEM RESPONSES, AND MANAGEMENT STRATEGIES. , 1998, 8, 706-733.		634
2	Ecological Effects of Nitrogen Deposition in the Western United States. <i>BioScience</i> , 2003, 53, 404.	4.9	522
3	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
4	Nitrogen Emissions, Deposition, and Monitoring in the Western United States. <i>BioScience</i> , 2003, 53, 391.	4.9	355
5	Nitrogen deposition in California forests: A review. <i>Environmental Pollution</i> , 1996, 92, 127-146.	7.5	234
6	Evidence for nitrogen saturation in the San Bernardino Mountains in southern California. <i>Forest Ecology and Management</i> , 1996, 82, 211-230.	3.2	177
7	Nitrogen deposition effects on Mediterranean-type ecosystems: An ecological assessment. <i>Environmental Pollution</i> , 2011, 159, 2265-2279.	7.5	130
8	Monitoring Nitrogen Deposition in Throughfall Using Ion Exchange Resin Columns: A Field Test in the San Bernardino Mountains. <i>Journal of Environmental Quality</i> , 2004, 33, 2007-2014.	2.0	94
9	Temporal and Spatial Trends in Streamwater Nitrate Concentrations in the San Bernardino Mountains, Southern California. <i>Journal of Environmental Quality</i> , 1999, 28, 822-836.	2.0	84
10	Atmospheric deposition of nitrogen and sulfur and preferential canopy consumption of nitrate in forests of the Pacific Northwest, USA. <i>Forest Ecology and Management</i> , 2013, 302, 240-253.	3.2	76
11	On-road emissions of ammonia: An underappreciated source of atmospheric nitrogen deposition. <i>Science of the Total Environment</i> , 2018, 625, 909-919.	8.0	73
12	Influence of ozone and nitrogen deposition on bark beetle activity under drought conditions. <i>Forest Ecology and Management</i> , 2004, 200, 67-76.	3.2	70
13	Autotrophic Ammonia-Oxidizing Bacteria Contribute Minimally to Nitrification in a Nitrogen-Impacted Forested Ecosystem. <i>Applied and Environmental Microbiology</i> , 2005, 71, 197-206.	3.1	69
14	Dry deposition of nitrogen and sulfur to Ponderosa and Jeffrey pine in the San Bernardino national forest in Southern California. <i>Environmental Pollution</i> , 1993, 81, 277-285.	7.5	65
15	Current and future effects of ozone and atmospheric nitrogen deposition on California's mixed conifer forests. <i>Forest Ecology and Management</i> , 2001, 144, 159-173.	3.2	64
16	Growth and survival relationships of 71 tree species with nitrogen and sulfur deposition across the conterminous U.S.. <i>PLoS ONE</i> , 2018, 13, e0205296.	2.5	54
17	Throughfall and fog deposition of nitrogen and sulfur at an N-limited and N-saturated site in the San Bernardino Mountains, southern California. <i>Canadian Journal of Forest Research</i> , 2000, 30, 1476-1488.	1.7	51
18	Mechanisms of nitrogen deposition effects on temperate forest lichens and trees. <i>Ecosphere</i> , 2017, 8, e01717.	2.2	48

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19	Nitrogen-induced terrestrial eutrophication: cascading effects and impacts on ecosystem services. <i>Ecosphere</i> , 2017, 8, e01877.	2.2	48
20	Litter Decomposition Across an Air-Pollution Gradient in the San Bernardino Mountains. <i>Soil Science Society of America Journal</i> , 1989, 53, 1560-1567.	2.2	46
21	The importance of atmospheric base cation deposition for preventing soil acidification in the Athabasca Oil Sands Region of Canada. <i>Science of the Total Environment</i> , 2014, 493, 1-11.	8.0	46
22	Tracing industrial sulfur contributions to atmospheric sulfate deposition in the Athabasca oil sands region, Alberta, Canada. <i>Applied Geochemistry</i> , 2012, 27, 2425-2434.	3.0	44
23	Using vector analysis to assess nitrogen status of ponderosa and Jeffrey pine along deposition gradients in forests of southern California. <i>Forest Ecology and Management</i> , 1997, 94, 47-59.	3.2	40
24	A multi-isotope approach for estimating industrial contributions to atmospheric nitrogen deposition in the Athabasca oil sands region in Alberta, Canada. <i>Environmental Pollution</i> , 2013, 182, 80-91.	7.5	37
25	Forest health conditions in North America. <i>Environmental Pollution</i> , 2008, 155, 409-425.	7.5	35
26	A simple tool for estimating throughfall nitrogen deposition in forests of western North America using lichens. <i>Forest Ecology and Management</i> , 2013, 306, 1-8.	3.2	35
27	Differential Effects of High Atmospheric N and S Deposition on Bog Plant/Lichen Tissue and Porewater Chemistry across the Athabasca Oil Sands Region. <i>Environmental Science & Technology</i> , 2016, 50, 12630-12640.	10.0	35
28	Using Epiphytic Lichens to Monitor Nitrogen Deposition Near Natural Gas Drilling Operations in the Wind River Range, WY, USA. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	33
29	Ground-level air pollution changes during a boreal wildland mega-fire. <i>Science of the Total Environment</i> , 2016, 572, 755-769.	8.0	33
30	Nitrogen mineralization and nitrification in a mixed-conifer forest in southern California: controlling factors, fluxes, and nitrogen fertilization response at a high and low nitrogen deposition site. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1464-1486.	1.7	32
31	Changes in N cycling and microbial N with elevated N in exotic annual grasslands of southern California. <i>Applied Soil Ecology</i> , 2007, 36, 1-9.	4.3	32
32	A Throughfall Collection Method Using Mixed Bed Ion Exchange Resin Columns. <i>Scientific World Journal</i> , The, 2002, 2, 122-130.	2.1	29
33	The effect of nitrogen additions on oak foliage and herbivore communities at sites with high and low atmospheric pollution. <i>Environmental Pollution</i> , 2008, 151, 434-442.	7.5	29
34	Effects of ozone, nitrogen deposition, and other stressors on montane ecosystems in the Sierra Nevada. <i>Developments in Environmental Science</i> , 2003, 2, 111-155.	0.5	27
35	Atmospheric dry deposition of sulfur and nitrogen in the Athabasca Oil Sands Region, Alberta, Canada. <i>Science of the Total Environment</i> , 2016, 568, 285-295.	8.0	27
36	Spatial patterns of atmospheric deposition of nitrogen and sulfur using ion-exchange resin collectors in Rocky Mountain National Park, USA. <i>Atmospheric Environment</i> , 2015, 101, 149-157.	4.1	25

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37	Bulk deposition of base cationic nutrients in China's forests: Annual rates and spatial characteristics. <i>Atmospheric Environment</i> , 2018, 184, 121-128.	4.1	22
38	Ambient concentrations and total deposition of inorganic sulfur, inorganic nitrogen and base cations in the Athabasca Oil Sands Region. <i>Science of the Total Environment</i> , 2020, 706, 134864.	8.0	22
39	Nitrogenous air pollutants and ozone exposure in the central Sierra Nevada and White Mountains of California – Distribution and evaluation of ecological risks. <i>Science of the Total Environment</i> , 2019, 654, 604-615.	8.0	20
40	A synthesis of ecosystem management strategies for forests in the face of chronic nitrogen deposition. <i>Environmental Pollution</i> , 2019, 248, 1046-1058.	7.5	19
41	Structural injury underlying mottling in ponderosa pine needles exposed to ambient ozone concentrations in the San Bernardino Mountains near Los Angeles, California. <i>Trees - Structure and Function</i> , 2013, 27, 895-911.	1.9	17
42	Chapter 17 Air Pollution Increases Forest Susceptibility to Wildfires: A Case Study in the San Bernardino Mountains in Southern California. <i>Developments in Environmental Science</i> , 2008, , 365-403.	0.5	16
43	The effect of nitrogen additions on bracken fern and its insect herbivores at sites with high and low atmospheric pollution. <i>Arthropod-Plant Interactions</i> , 2011, 5, 163-173.	1.1	16
44	Impact of transient soil water simulation to estimated nitrogen leaching and emission at high- and low-deposition forest sites in Southern California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
45	Evaluating the effects of nitrogen and sulfur deposition and ozone on tree growth and mortality in California using a spatially comprehensive forest inventory. <i>Forest Ecology and Management</i> , 2020, 465, 118084.	3.2	13
46	Quantifying atmospheric N deposition in dryland ecosystems: A test of the Integrated Total Nitrogen Input (ITNI) method. <i>Science of the Total Environment</i> , 2019, 646, 1253-1264.	8.0	12
47	Declines in native forb richness of an imperiled plant community across an anthropogenic nitrogen deposition gradient. <i>Ecosphere</i> , 2020, 11, e03032.	2.2	10
48	Concentrations, Deposition, and Effects of Nitrogenous Pollutants in Selected California Ecosystems. <i>Scientific World Journal</i> , The, 2001, 1, 304-311.	2.1	9
49	Chapter 18 Fire Effects on Carbon and Nitrogen Cycling in Forests of The Sierra Nevada. <i>Developments in Environmental Science</i> , 2008, , 405-423.	0.5	9
50	Critical Loads of Acid Deposition for Wilderness Lakes in the Sierra Nevada (California) Estimated by the Steady-State Water Chemistry Model. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	9
51	Alteration of belowground carbon dynamics by nitrogen addition in southern California mixed conifer forests. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
52	Atmospheric deposition of inorganic nitrogen in Spanish forests of <i>Quercus ilex</i> measured with ion-exchange resins and conventional collectors. <i>Environmental Pollution</i> , 2016, 216, 653-661.	7.5	6
53	A Case Study of Nitrogen Saturation in Western U.S. Forests. <i>Scientific World Journal</i> , The, 2001, 1, 433-439.	2.1	5
54	Challenges characterizing N deposition to high elevation protected areas: A case study integrating instrument, simulated, and lichen inventory datasets for the Devils Postpile National Monument and surrounding region, USA. <i>Ecological Indicators</i> , 2021, 122, 107311.	6.3	4

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55	Nitrogen and Sulfur Deposition in the Mexico City Air Basin: Impacts on Forest Nutrient Status and Nitrate Levels in Drainage Waters. <i>Ecological Studies</i> , 2002, , 298-319.	1.2	4
56	A Comparison of Empirical and Modelled Nitrogen Critical Loads for Mediterranean Forests and Shrublands in California. , 2014, , 357-368.		3
57	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. <i>Environmental Pollution</i> , 2015, , 129-169.	0.4	3
58	Summary of Air Pollution Impacts on Forests in the Mexico City Air Basin. <i>Ecological Studies</i> , 2002, , 337-355.	1.2	3
59	Chapter 19 Management Options for Mitigating Nitrogen (N) Losses from N-Saturated Mixed-Conifer Forests in California. <i>Developments in Environmental Science</i> , 2008, 8, 425-455.	0.5	2
60	Resources at Risk and Research Needs. <i>Ecological Studies</i> , 2002, , 356-372.	1.2	0
61	Use of Combined Biogeochemical Model Approaches and Empirical Data to Assess Critical Loads of Nitrogen. <i>Environmental Pollution</i> , 2015, , 269-295.	0.4	0