

Wade H Elmer

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,608
citations

109321

35
h-index

102487

66
g-index

72
all docs

72
docs citations

72
times ranked

3723
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the use of engineered nanomaterials to suppress plant disease and enhance crop yield. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	501
2	Recent advances in nano-enabled fertilizers and pesticides: a critical review of mechanisms of action. <i>Environmental Science: Nano</i> , 2019, 6, 2002-2030.	4.3	314
3	The Future of Nanotechnology in Plant Pathology. <i>Annual Review of Phytopathology</i> , 2018, 56, 111-133.	7.8	271
4	The use of metallic oxide nanoparticles to enhance growth of tomatoes and eggplants in disease infested soil or soilless medium. <i>Environmental Science: Nano</i> , 2016, 3, 1072-1079.	4.3	251
5	Effect of Biochar Amendments on Mycorrhizal Associations and Fusarium Crown and Root Rot of Asparagus in Replant Soils. <i>Plant Disease</i> , 2011, 95, 960-966.	1.4	224
6	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. <i>Science of the Total Environment</i> , 2019, 688, 926-934.	8.0	196
7	Nanoparticle and Ionic Zn Promote Nutrient Loading of Sorghum Grain under Low NPK Fertilization. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8552-8559.	5.2	169
8	Effect of Metalloid and Metal Oxide Nanoparticles on Fusarium Wilt of Watermelon. <i>Plant Disease</i> , 2018, 102, 1394-1401.	1.4	135
9	Copper Based Nanomaterials Suppress Root Fungal Disease in Watermelon (<i>Citrullus lanatus</i>): Role of Particle Morphology, Composition and Dissolution Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14847-14856.	6.7	133
10	Facile Coating of Urea With Low-Dose ZnO Nanoparticles Promotes Wheat Performance and Enhances Zn Uptake Under Drought Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 168.	3.6	120
11	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic <i>Fusarium</i> that Includes the <i>Fusarium solani</i> Species Complex. <i>Phytopathology</i> , 2021, 111, 1064-1079.	2.2	107
12	Interactive effects of drought, organic fertilizer, and zinc oxide nanoscale and bulk particles on wheat performance and grain nutrient accumulation. <i>Science of the Total Environment</i> , 2020, 722, 137808.	8.0	104
13	Advanced material modulation of nutritional and phytohormone status alleviates damage from soybean sudden death syndrome. <i>Nature Nanotechnology</i> , 2020, 15, 1033-1042.	31.5	98
14	Epidemiology and Management of the Diseases Causal to Asparagus Decline.. <i>Plant Disease</i> , 1996, 80, 117.	1.4	96
15	Role of Cerium Compounds in Fusarium Wilt Suppression and Growth Enhancement in Tomato (<i>Solanum lycopersicum</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 5959-5970.	5.2	91
16	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat (<i>Triticum aestivum</i> L.). <i>Agronomy</i> , 2018, 8, 158.	3.0	91
17	Nanoparticles for plant disease management. <i>Current Opinion in Environmental Science and Health</i> , 2018, 6, 66-70.	4.1	89
18	Chitosan-Coated Mesoporous Silica Nanoparticle Treatment of <i>Citrullus lanatus</i> (Watermelon): Enhanced Fungal Disease Suppression and Modulated Expression of Stress-Related Genes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19649-19659.	6.7	80

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19	Nanotechnology and Plant Viruses: An Emerging Disease Management Approach for Resistant Pathogens. <i>ACS Nano</i> , 2021, 15, 6030-6037.	14.6	73
20	Time-Dependent Transcriptional Response of Tomato (<i>Solanum lycopersicum</i> L.) to Cu Nanoparticle Exposure upon Infection with <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10064-10074.	6.7	69
21	Influence of Earthworm Activity on Soil Microbes and Soilborne Diseases of Vegetables. <i>Plant Disease</i> , 2009, 93, 175-179.	1.4	63
22	Addition-omission of zinc, copper, and boron nano and bulk oxide particles demonstrate element and size -specific response of soybean to micronutrients exposure. <i>Science of the Total Environment</i> , 2019, 665, 606-616.	8.0	62
23	Elemental Sulfur Nanoparticles Enhance Disease Resistance in Tomatoes. <i>ACS Nano</i> , 2021, 15, 11817-11827.	14.6	60
24	Effect of verticillium wilt on gas exchange of entire eggplants. <i>Canadian Journal of Botany</i> , 1995, 73, 557-565.	1.1	57
25	Exposure to Weathered and Fresh Nanoparticle and Ionic Zn in Soil Promotes Grain Yield and Modulates Nutrient Acquisition in Wheat (<i>Triticum aestivum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9645-9656.	5.2	56
26	Seed Biofortification by Engineered Nanomaterials: A Pathway To Alleviate Malnutrition?. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12189-12202.	5.2	53
27	Silica Nanoparticle Dissolution Rate Controls the Suppression of <i>Fusarium Wilt</i> of Watermelon (<i>Citrullus lanatus</i>). <i>Environmental Science & Technology</i> , 2021, 55, 13513-13522.	10.0	52
28	Nutritional Status of Tomato (<i>Solanum lycopersicum</i>) Fruit Grown in <i>Fusarium</i> -Infested Soil: Impact of Cerium Oxide Nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1986-1997.	5.2	51
29	Seeds as Vehicles for Pathogen Importation. <i>Biological Invasions</i> , 2001, 3, 263-271.	2.4	48
30	Copper Oxide Nanoparticle-Embedded Hydrogels Enhance Nutrient Supply and Growth of Lettuce (<i>Lactuca sativa</i>) Infected with <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> . <i>Environmental Science & Technology</i> , 2021, 55, 13432-13442.	10.0	46
31	Association Between Mn-Reducing Root Bacteria and NaCl Applications in Suppression of <i>Fusarium</i> Crown and Root Rot of Asparagus. <i>Phytopathology</i> , 1995, 85, 1461.	2.2	46
32	Copper Nanomaterial Morphology and Composition Control Foliar Transfer through the Cuticle and Mediate Resistance to Root Fungal Disease in Tomato (<i>Solanum lycopersicum</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 11327-11338.	5.2	42
33	Efficacy of integrating biologicals with fungicides for the suppression of <i>Fusarium</i> wilt of cyclamen. <i>Crop Protection</i> , 2004, 23, 909-914.	2.1	40
34	Indirect effects of non-native <i>Spartina alterniflora</i> and its fungal pathogen <i>Fusarium palustre</i> on native saltmarsh plants in China. <i>Journal of Ecology</i> , 2014, 102, 1112-1119.	4.0	40
35	Influence of Inoculum Density of <i>Fusarium oxysporum</i> f. sp. <i>cyclaminis</i> and Sodium Chloride on Cyclamen and the Development of <i>Fusarium</i> Wilt. <i>Plant Disease</i> , 2002, 86, 389-393.	1.4	39
36	New species of <i>Fusarium</i> associated with dieback of <i>Spartina alterniflora</i> in Atlantic salt marshes. <i>Mycologia</i> , 2011, 103, 806-819.	1.9	39

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37	Fusarium wilts of ornamental crops and their management. <i>Crop Protection</i> , 2015, 73, 50-59.	2.1	37
38	Preventing spread of Fusarium wilt of <i>Hiemalis begonias</i> in the greenhouse. <i>Crop Protection</i> , 2008, 27, 1078-1083.	2.1	35
39	Management of Fusarium crown and root rot of asparagus. <i>Crop Protection</i> , 2015, 73, 2-6.	2.1	35
40	Metalloid and Metal Oxide Nanoparticles Suppress Sudden Death Syndrome of Soybean. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 77-87.	5.2	34
41	Suppression of Fusarium Crown and Root Rot of Asparagus with Sodium Chloride. <i>Phytopathology</i> , 1992, 82, 97.	2.2	34
42	Influence of Formononetin and NaCl on Mycorrhizal Colonization and Fusarium Crown and Root Rot of Asparagus. <i>Plant Disease</i> , 2002, 86, 1318-1324.	1.4	33
43	Role of Nanoscale Hydroxyapatite in Disease Suppression of <i>Fusarium</i> -Infected Tomato. <i>Environmental Science & Technology</i> , 2021, 55, 13465-13476.	10.0	33
44	Local and Systemic Effects of NaCl on Root Composition, Rhizobacteria, and Fusarium Crown and Root Rot of Asparagus. <i>Phytopathology</i> , 2003, 93, 186-192.	2.2	32
45	Fusarium Fruit Rot of Pumpkin in Connecticut. <i>Plant Disease</i> , 1996, 80, 131.	1.4	32
46	Effects of acibenzolar-S-methyl on the suppression of Fusarium wilt of cyclamen. <i>Crop Protection</i> , 2006, 25, 671-676.	2.1	31
47	Foliar Application of Copper Oxide Nanoparticles Suppresses Fusarium Wilt Development on Chrysanthemum. <i>Environmental Science & Technology</i> , 2021, 55, 10805-10810.	10.0	31
48	Therapeutic Delivery of Nanoscale Sulfur to Suppress Disease in Tomatoes: In Vitro Imaging and Orthogonal Mechanistic Investigation. <i>ACS Nano</i> , 2022, 16, 11204-11217.	14.6	28
49	Soil and foliar exposure of soybean (<i>Glycine max</i>) to Cu: Nanoparticle coating-dependent plant responses. <i>NanoImpact</i> , 2022, 26, 100406.	4.5	22
50	Association Between <i>Fusarium</i> spp. on <i>Spartina alterniflora</i> and Dieback Sites in Connecticut and Massachusetts. <i>Estuaries and Coasts</i> , 2012, 35, 436-444.	2.2	21
51	Biomolecular corona formation on CuO nanoparticles in plant xylem fluid. <i>Environmental Science: Nano</i> , 2021, 8, 1067-1080.	4.3	18
52	Impact of engineered nanomaterials on rice (<i>Oryza sativa</i> L.): A critical review of current knowledge. <i>Environmental Pollution</i> , 2022, 297, 118738.	7.5	18
53	A Tripartite Interaction Between <i>Spartina alterniflora</i> , <i>Fusarium palustre</i> , and the Purple Marsh Crab (<i>Sesarma reticulatum</i>) Contributes to Sudden Vegetation Dieback of Salt Marshes in New England. <i>Phytopathology</i> , 2014, 104, 1070-1077.	2.2	15
54	Influence of Single and Combined Mixtures of Metal Oxide Nanoparticles on Eggplant Growth, Yield, and Verticillium Wilt Severity. <i>Plant Disease</i> , 2021, 105, 1153-1161.	1.4	15

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55	Biodegradable Polymer Nanocomposites Provide Effective Delivery and Reduce Phosphorus Loss during Plant Growth. <i>ACS Agricultural Science and Technology</i> , 2021, 1, 529-539.	2.3	12
56	Epidemiology and Management of Fusarium Wilt of China Asters. <i>Plant Disease</i> , 2013, 97, 530-536.	1.4	11
57	Vegetative compatibility groups in <i>Fusarium proliferatum</i> from asparagus in Australia. <i>Mycologia</i> , 1999, 91, 650-654.	1.9	10
58	Response of Sediment Bacterial Communities to Sudden Vegetation Dieback in a Coastal Wetland. <i>Phytobiomes Journal</i> , 2017, 1, 5-13.	2.7	10
59	Effects of engineered lignin-graft-PLGA and zein-based nanoparticles on soybean health. <i>NanoImpact</i> , 2021, 23, 100329.	4.5	9
60	Role of Foliar Biointerface Properties and Nanomaterial Chemistry in Controlling Cu Transfer into Wild-Type and Mutant <i>Arabidopsis thaliana</i> Leaf Tissue. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 4267-4278.	5.2	8
61	Vegetative Compatibility Groups in <i>Fusarium proliferatum</i> from Asparagus in Australia. <i>Mycologia</i> , 1999, 91, 650.	1.9	6
62	Heuchera root rot, a new disease for <i>Plectosphaerella cucumerina</i> . <i>Journal of Phytopathology</i> , 2020, 168, 56-62.	1.0	6
63	Pathogenic Microfungi Associated with <i>Spartina</i> in Salt Marshes. <i>Fungal Biology</i> , 2016, , 615-630.	0.6	5
64	Incidence of <i>Fusarium</i> spp. on the invasive <i>Spartina alterniflora</i> on Chongming Island, Shanghai, China. <i>Biological Invasions</i> , 2016, 18, 2221-2227.	2.4	4
65	Interactions and consequences of silicon, nitrogen, and <i>Fusarium palustre</i> on herbivory and DMSP levels of <i>Spartina alterniflora</i> . <i>Estuarine, Coastal and Shelf Science</i> , 2017, 198, 106-113.	2.1	4
66	Diseases of Tulip. <i>Handbook of Plant Disease Management</i> , 2017, , 1-26.	0.5	4
67	Diseases of Chrysanthemum. <i>Handbook of Plant Disease Management</i> , 2018, , 439-502.	0.5	3
68	Cultural Methods for Greenhouse Pest and Disease Management. , 2020, , 285-330.		3
69	From nanotoxicology to nano-enabled agriculture: Following the science at the Connecticut Agricultural Experiment Station (CAES). , 2022, 1, 100007.		2
70	Diseases of Tulip. <i>Handbook of Plant Disease Management</i> , 2018, , 1313-1337.	0.5	1