Wade H Elmer

List of Publications by Year
in descending order

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	Impact of engineered nanomaterials on rice (Oryza sativa L.): A critical review of current knowledge. Environmental Pollution, 2022, 297, 118738.	7.5	18
2	Role of Foliar Biointerface Properties and Nanomaterial Chemistry in Controlling Cu Transfer into Wild-Type and Mutant <i>Arabidopsis thaliana</i> Leaf Tissue. Journal of Agricultural and Food Chemistry, 2022, 70, 4267-4278.	5.2	8
3	Soil and foliar exposure of soybean (Glycine max) to Cu: Nanoparticle coating-dependent plant responses. NanoImpact, 2022, 26, 100406.	4.5	22
4	From nanotoxicology to nano-enabled agriculture: Following the science at the Connecticut Agricultural Experiment Station (CAES). , 2022, 1, 100007.		2
5	Therapeutic Delivery of Nanoscale Sulfur to Suppress Disease in Tomatoes: In Vitro Imaging and Orthogonal Mechanistic Investigation. ACS Nano, 2022, 16, 11204-11217.	14.6	28
6	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. Phytopathology, 2021, 111, 1064-1079.	2.2	107
7	Influence of Single and Combined Mixtures of Metal Oxide Nanoparticles on Eggplant Growth, Yield, and Verticillium Wilt Severity. Plant Disease, 2021, 105, 1153-1161.	1.4	15
8	Biomolecular corona formation on CuO nanoparticles in plant xylem fluid. Environmental Science: Nano, 2021, 8, 1067-1080.	4.3	18
9	Nanotechnology and Plant Viruses: An Emerging Disease Management Approach for Resistant Pathogens. ACS Nano, 2021, 15, 6030-6037.	14.6	73
10	Silica Nanoparticle Dissolution Rate Controls the Suppression of <i>Fusarium Wilt</i> of Watermelon (<i>Citrullus lanatus</i>). Environmental Science & Technology, 2021, 55, 13513-13522.	10.0	52
11	Role of Nanoscale Hydroxyapatite in Disease Suppression of <i>Fusarium</i>-Infected Tomato. Environmental Science & Technology, 2021, 55, 13465-13476.	10.0	33
12	Elemental Sulfur Nanoparticles Enhance Disease Resistance in Tomatoes. ACS Nano, 2021, 15, 11817-11827.	14.6	60
13	Foliar Application of Copper Oxide Nanoparticles Suppresses Fusarium Wilt Development on Chrysanthemum. Environmental Science & Technology, 2021, 55, 10805-10810.	10.0	31
14	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>. Environmental Science & Technology, 2021, 55, 13432-13442.	10.0	46
15	Effects of engineered lignin-graft-PLGA and zein-based nanoparticles on soybean health. NanoImpact, 2021, 23, 100329.	4.5	9
16	Biodegradable Polymer Nanocomposites Provide Effective Delivery and Reduce Phosphorus Loss during Plant Growth. ACS Agricultural Science and Technology, 2021, 1, 529-539.	2.3	12
17	Heuchera root rot, a new disease for <i>Plectosphaerella cucumerina</i>. Journal of Phytopathology, 2020, 168, 56-62.	1.0	6
18	Metalloid and Metal Oxide Nanoparticles Suppress Sudden Death Syndrome of Soybean. Journal of Agricultural and Food Chemistry, 2020, 68, 77-87.	5.2	34

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19	Advanced material modulation of nutritional and phytohormone status alleviates damage from soybean sudden death syndrome. Nature Nanotechnology, 2020, 15, 1033-1042.	31.5	98
20	Seed Biofortification by Engineered Nanomaterials: A Pathway To Alleviate Malnutrition?. Journal of Agricultural and Food Chemistry, 2020, 68, 12189-12202.	5.2	53
21	Copper Nanomaterial Morphology and Composition Control Foliar Transfer through the Cuticle and Mediate Resistance to Root Fungal Disease in Tomato (<i>Solanum lycopersicum</i>). Journal of Agricultural and Food Chemistry, 2020, 68, 11327-11338.	5.2	42
22	Cultural Methods for Greenhouse Pest and Disease Management. , 2020, , 285-330.		3
23	Interactive effects of drought, organic fertilizer, and zinc oxide nanoscale and bulk particles on wheat performance and grain nutrient accumulation. Science of the Total Environment, 2020, 722, 137808.	8.0	104
24	Facile Coating of Urea With Low-Dose ZnO Nanoparticles Promotes Wheat Performance and Enhances Zn Uptake Under Drought Stress. Frontiers in Plant Science, 2020, 11, 168.	3.6	120
25	Nutritional Status of Tomato (<i>Solanum lycopersicum</i>) Fruit Grown in <i>Fusarium</i>-Infested Soil: Impact of Cerium Oxide Nanoparticles. Journal of Agricultural and Food Chemistry, 2020, 68, 1986-1997.	5.2	51
26	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. Science of the Total Environment, 2019, 688, 926-934.	8.0	196
27	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>. ACS Sustainable Chemistry and Engineering, 2019, 7, 10064-10074.	6.7	69
28	Recent advances in nano-enabled fertilizers and pesticides: a critical review of mechanisms of action. Environmental Science: Nano, 2019, 6, 2002-2030.	4.3	314
29	Addition-omission of zinc, copper, and boron nano and bulk oxide particles demonstrate element and size -specific response of soybean to micronutrients exposure. Science of the Total Environment, 2019, 665, 606-616.	8.0	62
30	Chitosan-Coated Mesoporous Silica Nanoparticle Treatment of <i>Citrullus lanatus</i> (Watermelon): Enhanced Fungal Disease Suppression and Modulated Expression of Stress-Related Genes. ACS Sustainable Chemistry and Engineering, 2019, 7, 19649-19659.	6.7	80
31	Diseases of Chrysanthemum. Handbook of Plant Disease Management, 2018, , 439-502.	0.5	3
32	Effect of Metalloid and Metal Oxide Nanoparticles on Fusarium Wilt of Watermelon. Plant Disease, 2018, 102, 1394-1401.	1.4	135
33	Copper Based Nanomaterials Suppress Root Fungal Disease in Watermelon (<i>Citrullus lanatus</i>): Role of Particle Morphology, Composition and Dissolution Behavior. ACS Sustainable Chemistry and Engineering, 2018, 6, 14847-14856.	6.7	133
34	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.). Journal of Agricultural and Food Chemistry, 2018, 66, 9645-9656.	5.2	56
35	Role of Cerium Compounds in Fusarium Wilt Suppression and Growth Enhancement in Tomato (<i>Solanum lycopersicum</i>). Journal of Agricultural and Food Chemistry, 2018, 66, 5959-5970.	5.2	91
36	Nanoparticles for plant disease management. Current Opinion in Environmental Science and Health, 2018, 6, 66-70.	4.1	89

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37	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat (Triticum aestivum L.). Agronomy, 2018, 8, 158.	3.0	91
38	The Future of Nanotechnology in Plant Pathology. Annual Review of Phytopathology, 2018, 56, 111-133.	7.8	271
39	Diseases of Tulip. Handbook of Plant Disease Management, 2018, , 1313-1337.	0.5	1
40	Response of Sediment Bacterial Communities to Sudden Vegetation Dieback in a Coastal Wetland. Phytobiomes Journal, 2017, 1, 5-13.	2.7	10
41	Nanoparticle and Ionic Zn Promote Nutrient Loading of Sorghum Grain under Low NPK Fertilization. Journal of Agricultural and Food Chemistry, 2017, 65, 8552-8559.	5.2	169
42	Interactions and consequences of silicon, nitrogen, and Fusarium palustre on herbivory and DMSP levels of Spartina alterniflora. Estuarine, Coastal and Shelf Science, 2017, 198, 106-113.	2.1	4
43	Diseases of Tulip. Handbook of Plant Disease Management, 2017, , 1-26.	0.5	4
44	Pathogenic Microfungi Associated with Spartina in Salt Marshes. Fungal Biology, 2016, , 615-630.	0.6	5
45	The use of metallic oxide nanoparticles to enhance growth of tomatoes and eggplants in disease infested soil or soilless medium. Environmental Science: Nano, 2016, 3, 1072-1079.	4.3	251
46	Incidence of Fusarium spp. on the invasive Spartina alterniflora on Chongming Island, Shanghai, China. Biological Invasions, 2016, 18, 2221-2227.	2.4	4
47	A review of the use of engineered nanomaterials to suppress plant disease and enhance crop yield. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	501
48	Management of Fusarium crown and root rot of asparagus. Crop Protection, 2015, 73, 2-6.	2.1	35
49	Fusarium wilts of ornamental crops and their management. Crop Protection, 2015, 73, 50-59.	2.1	37
50	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. Phytopathology, 2014, 104, 1070-1077.	2.2	15
51	Indirect effects of nonâ€native <i><scp>S</scp>partina alterniflora</i> and its fungal pathogen (<i><scp>F</scp>usarium palustre</i>) on native saltmarsh plants in <scp>C</scp>hina. Journal of Ecology, 2014, 102, 1112-1119.	4.0	40
52	Epidemiology and Management of Fusarium Wilt of China Asters. Plant Disease, 2013, 97, 530-536.	1.4	11
53	Association Between Fusarium spp. on Spartina alterniflora and Dieback Sites in Connecticut and Massachusetts. Estuaries and Coasts, 2012, 35, 436-444.	2.2	21
54	New species of <i>Fusarium</i> associated with dieback of <i>Spartina alterniflora</i> in Atlantic salt marshes. Mycologia, 2011, 103, 806-819.	1.9	39

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55	Effect of Biochar Amendments on Mycorrhizal Associations and Fusarium Crown and Root Rot of Asparagus in Replant Soils. Plant Disease, 2011, 95, 960-966.	1.4	224
56	Influence of Earthworm Activity on Soil Microbes and Soilborne Diseases of Vegetables. Plant Disease, 2009, 93, 175-179.	1.4	63
57	Preventing spread of Fusarium wilt of Hiemalis begonias in the greenhouse. Crop Protection, 2008, 27, 1078-1083.	2.1	35
58	Effects of acibenzolar-S-methyl on the suppression of Fusarium wilt of cyclamen. Crop Protection, 2006, 25, 671-676.	2.1	31
59	Efficacy of integrating biologicals with fungicides for the suppression of Fusarium wilt of cyclamen. Crop Protection, 2004, 23, 909-914.	2.1	40
60	Local and Systemic Effects of NaCl on Root Composition, Rhizobacteria, and Fusarium Crown and Root Rot of Asparagus. Phytopathology, 2003, 93, 186-192.	2.2	32
61	Influence of Formononetin and NaCl on Mycorrhizal Colonization and Fusarium Crown and Root Rot of Asparagus. Plant Disease, 2002, 86, 1318-1324.	1.4	33
62	Influence of Inoculum Density of Fusarium oxysporum f. sp. cyclaminis and Sodium Chloride on Cyclamen and the Development of Fusarium Wilt. Plant Disease, 2002, 86, 389-393.	1.4	39
63	Seeds as Vehicles for Pathogen Importation. Biological Invasions, 2001, 3, 263-271.	2.4	48
64	Vegetative compatibility groups in <i>Fusarium proliferatum</i> from asparagus in Australia. Mycologia, 1999, 91, 650-654.	1.9	10
65	Vegetative Compatibility Groups in Fusarium proliferatum from Asparagus in Australia. Mycologia, 1999, 91, 650.	1.9	6
66	Epidemiology and Management of the Diseases Causal to Asparagus Decline.. Plant Disease, 1996, 80, 117.	1.4	96
67	Fusarium Fruit Rot of Pumpkin in Connecticut. Plant Disease, 1996, 80, 131.	1.4	32
68	Effect of verticillium wilt on gas exchange of entire eggplants. Canadian Journal of Botany, 1995, 73, 557-565.	1.1	57
69	Association Between Mn-Reducing Root Bacteria and NaCl Applications in Suppression of Fusarium Crown and Root Rot of Asparagus. Phytopathology, 1995, 85, 1461.	2.2	46
70	Suppression of Fusarium Crown and Root Rot of Asparagus with Sodium Chloride. Phytopathology, 1992, 82, 97.	2.2	34