Alphus D Wilson

List of Publications by Year in Descending Order

46 papers	2,199 citations	18 h-index	46 g-index
48 ext. papers	2,621 ext. citations	2.8 avg, IF	6.06 L-index

#	Paper	IF	Citations
46	Grape Cultivar Identification and Classification by Machine Olfaction Analysis of Leaf Volatiles. *Chemosensors*, **2022**, 10, 125	4	4
45	Rapid Detection of Urea Fertilizer Effects on VOC Emissions from Cucumber Fruits Using a MOS E-Nose Sensor Array. *Agronomy*, **2022**, 12, 35	3.6	4
44	Classification and Identification of Essential Oils from Herbs and Fruits Based on a MOS Electronic-Nose Technology. *Chemosensors*, **2021**, 9, 142	4	22
43	Intensity and mode of reproduction are affected by flooding and light availability. *Ecology and Evolution*, **2021**, 11, 13153-13165	2.8	
42	Performance Analysis of MAU-9 Electronic-Nose MOS Sensor Array Components and ANN Classification Methods for Discrimination of Herb and Fruit Essential Oils. *Chemosensors*, **2021**, 9, 243	4	13
41	Assessment of the Portable C-320 Electronic Nose for Discrimination of Nine Insectivorous Bat Species: Implications for Monitoring White-Nose Syndrome. *Biosensors*, **2020**, 10,	5.9	4
40	Development of Electronic-Nose Technologies for Early Disease Detection Based on Microbial Dysbiosis. *Proceedings (mdpi)*, **2019**, 4, 32	0.3	1
39	Adaptive trait variation in the federally endangered Lindera melissifolia (Lauraceae), as it relates to genotype and genotype-environment interaction1. *Journal of the Torrey Botanical Society*, **2019**, 146, 166	0.5	0
38	Detection of Emerald Ash Borer Infestations in Living Green Ash by Noninvasive Electronic-Nose Analysis of Wood Volatiles. *Biosensors*, **2019**, 9,	5.9	8
37	Recent Applications of Electronic-Nose Technologies for the Noninvasive Early Diagnosis of Gastrointestinal Diseases *Proceedings (mdpi)*, **2018**, 2, 147	0.3	8
36	Application of Electronic-Nose Technologies and VOC-Biomarkers for the Noninvasive Early Diagnosis of Gastrointestinal Diseases. *Sensors*, **2018**, 18,	3.8	59
35	Developing Electronic-nose Technologies for Clinical Practice. *Journal of Medical & Surgical Pathology*, **2018**, 03,	0	7
34	Biomass Accumulation in the Endangered Shrub Lindera melissifolia as Affected by Gradients of Light Availability and Soil Flooding. *Forest Science*, **2018**,	1.4	1
33	Applications of Electronic-Nose Technologies for Noninvasive Early Detection of Plant, Animal and Human Diseases. *Chemosensors*, **2018**, 6, 45	4	41
32	Biomarker Metabolite Signatures Pave the Way for Electronic-nose Applications in Early Clinical Disease Diagnoses. *Current Metabolomics*, **2017**, 5,	1	7
31	Growth and competitive abilities of the federally endangered Lindera melissifolia and the potentially invasive Brunnichia ovata in varying densities, hydrologic regimes, and light availabilities. *Botany*, **2016**, 94, 269-276	1.3	2
30	Electronic-nose applications for fruit identification, ripeness and quality grading. *Sensors*, **2015**, 15, 899-931	3.8	161

29	Advances in electronic-nose technologies for the detection of volatile biomarker metabolites in the human breath. *Metabolites*, **2015**, 5, 140-63	5.6	141
28	Pondberry (Lindera melissifolia , Lauraceae) seed and seedling dispersers and predators. *Global Ecology and Conservation*, **2015**, 4, 358-368	2.8	1
27	Evaluation of a portable MOS electronic nose to detect root rots in shade tree species. *Computers and Electronics in Agriculture*, **2013**, 96, 117-125	6.5	18
26	New secondary metabolites from bioactive extracts of the fungus Armillaria tabescens. *Natural Product Research*, **2013**, 27, 1562-8	2.3	23
25	Detection of off-flavor in catfish using a conducting polymer electronic-nose technology. *Sensors*, **2013**, 13, 15968-84	3.8	29
24	Diverse applications of electronic-nose technologies in agriculture and forestry. *Sensors*, **2013**, 13, 2295-348	3.88	202
23	Lindera melissifolia responses to flood durations and light regimes suggest strategies for recovery and conservation. *Plant Ecology*, **2013**, 214, 893-905	1.7	9
22	Theoretical and practical considerations for teaching diagnostic electronic-nose technologies to clinical laboratory technicians. *Procedia, Social and Behavioral Sciences*, **2012**, 31, 262-274		4
21	Advanced Methods for Teaching Electronic-Nose Technologies to Diagnosticians and Clinical Laboratory Technicians. *Procedia, Social and Behavioral Sciences*, **2012**, 46, 4544-4554		3
20	Review of Electronic-nose Technologies and Algorithms to Detect Hazardous Chemicals in the Environment. *Procedia Technology*, **2012**, 1, 453-463		137
19	Advances in electronic-nose technologies developed for biomedical applications. *Sensors*, **2011**, 11, 1105-76	3.66	249
18	Evaluation of three electronic noses for detecting incipient wood decay. *Sensors*, **2010**, 10, 1062-92	3.8	45
17	Relative In Vitro Wood Decay Resistance of Sapwood from Landscape Trees of Southern Temperate Regions. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2010**, 45, 401-408	2.4	8
16	Identification of Sirex noctilio and Native North American Woodwasp Larvae using DNA Barcode. *Journal of Entomology*, **2010**, 7, 60-79	0.3	12
15	Linking stakeholder research needs and the Federal Data Quality Act: A case study of an endangered forest shrub in the southeastern United States. *Forest Policy and Economics*, **2009**, 11, 539-547	3.6	1
14	Applications and advances in electronic-nose technologies. *Sensors*, **2009**, 9, 5099-148	3.8	675
13	Growth and intraspecific competitive abilities of the dioecious Lindera melissifolia (Lauraceae) in varied flooding regimes1. *Journal of the Torrey Botanical Society*, **2009**, 136, 91-101	0.5	23
12	First Report of Amylostereum areolatum in Pines in the United States. *Plant Disease*, **2009**, 93, 108	1.5	6

11	Control of Clavicipitaceous Anamorphic Endophytes with Fungicides, Aerated Steam and Supercritical Fluid CO2-Seed Extraction. *Plant Pathology Journal*, **2008**, 7, 65-74	0.6	6
10	Development, fatty acid composition, and storage of drupes and seeds from the endangered pondberry (Lindera melissifolia). *Biological Conservation*, **2007**, 137, 489-496	6.2	14
9	Clavicipitaceous Anamorphic Endophytes in Hordeum germplasm. *Plant Pathology Journal*, **2007**, 6, 1-13	0.6	9
8	Application of conductive polymer analysis for wood and woody plant identifications. *Forest Ecology and Management*, **2005**, 209, 207-224	3.9	17
7	Development of conductive polymer analysis for the rapid detection and identification of phytopathogenic microbes. *Phytopathology*, **2004**, 94, 419-31	3.8	51
6	Trench Inserts as Long-term Barriers to Root Transmission for Control of Oak Wilt. *Plant Disease*, **2002**, 86, 1067-1074	1.5	10
5	Fungal endophytes of wild barley and their effects on Diuraphis noxia population development. *Entomologia Experimentalis Et Applicata*, **1997**, 82, 275-281	2.1	35
4	Expression of Russian Wheat Aphid (Homoptera: Aphididae) Resistance in Genotypes of Tall Fescue Harboring Different Isolates of Acremonium Endophyte. *Journal of Economic Entomology*, **1996**, 89, 766-770	2.2	16
3	Cytology and Genetics of Sexual Incompatibility in Didymella rabiei. *Mycologia*, **1995**, 87, 795	2.4	46
2	Behavior and Performance of Diuraphis noxia (Homoptera: Aphididae) on Fungal Endophyte-Infected and Uninfected Perennial Ryegrass. *Journal of Economic Entomology*, **1992**, 85, 583-588	2.2	17
1	Survey and Detection of Endophytic Fungi inLoliumGerm Plasm by Direct Staining and Aphid Assays. *Plant Disease*, **1991**, 75, 169	1.5	26