# Dean A Kopsell

List of Publications by Year
in descending order



| 96 | 3,057 | 159585 30 | 189892 50 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 97 | 97 | 97 | 3016 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Increases in Shoot Tissue Pigments, Glucosinolates, and Mineral Elements in Sprouting Broccoli after Exposure to Short-duration Blue Light from Light Emitting Diodes. Journal of the American Society for Horticultural Science, 2013, 138, 31-37. | 1.0 | 191 |
| 2 | Irradiance from Distinct Wavelength Light-emitting Diodes Affect Secondary Metabolites in Kale. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 2243-2244. | 1.0 | 162 |
| 3 | Accumulation and bioavailability of dietary carotenoids in vegetable crops. Trends in Plant Science, 2006, 11, 499-507. | 8.8 | 150 |
| 4 | Variation in Lutein, Î²-carotene, and Chlorophyll Concentrations among Brassica oleracea Cultigens and Seasons. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 361-364. | 1.0 | 127 |
| 5 | Sprouting Broccoli Accumulate Higher Concentrations of Nutritionally Important Metabolites under Narrow-band Light-emitting Diode Lighting. Journal of the American Society for Horticultural Science, 2014, 139, 469-477. | 1.0 | 108 |
| 6 | Carotenoid pigments in kale are influenced by nitrogen concentration and form. Journal of the Science of Food and Agriculture, 2007, 87, 900-907. | 3.5 | 94 |
| 7 | Changes in kale (Brassica oleracea L. var. acephala) carotenoid and chlorophyll pigment concentrations during leaf ontogeny. Scientia Horticulturae, 2007, 112, 136-141. | 3.6 | 82 |
| 8 | Irradiance levels affect growth parameters and carotenoid pigments in kale and spinach grown in a controlled environment. Physiologia Plantarum, 2006, 127, 624-631. | 5.2 | 74 |
| 9 | Air Temperature Affects Biomass and Carotenoid Pigment Accumulation in Kale and Spinach Grown in a Controlled Environment. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 2026-2030. | 1.0 | 72 |
| 10 | Abscisic Acid Increases Carotenoid and Chlorophyll Concentrations in Leaves and Fruit of Two Tomato Genotypes. Journal of the American Society for Horticultural Science, 2014, 139, 261-266. | 1.0 | 69 |
| 11 | Selenium Influences Glucosinolate and Isothiocyanates and Increases Sulfur Uptake in Arabidopsis thaliana and Rapid-Cycling Brassica oleracea. Journal of Agricultural and Food Chemistry, 2013, 61, 202-209. | 5.2 | 67 |
| 12 | Nitrogen Concentration Affects Nutrient and Carotenoid Accumulation in Parsley. Journal of Plant Nutrition, 2005, 28, 285-297. | 1.9 | 65 |
| 13 | Comparison of Light-emitting Diode and High-pressure Sodium Light Treatments for Hydroponics Growth of Boston Lettuce. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 477-482. | 1.0 | 64 |
| 14 | Light Intensity and Light Quality from Sole-source Light-emitting Diodes Impact Phytochemical Concentrations within Brassica Microgreens. Journal of the American Society for Horticultural Science, 2017, 142, 3-12. | 1.0 | 63 |
| 15 | Kale Carotenoids Remain Stable while Flavor Compounds Respond to Changes in Sulfur Fertilityâ€. Journal of Agricultural and Food Chemistry, 2003, 51, 5319-5325. | 5.2 | 62 |
| 16 | Blue Wavelengths from LED Lighting Increase Nutritionally Important Metabolites in Specialty Crops. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1285-1288. | 1.0 | 62 |
| 17 | Influence of Nitrogen and Sulfur on Biomass Production and Carotenoid and Glucosinolate Concentrations in Watercress (Nasturtium officinale R. Br.). Journal of Agricultural and Food Chemistry, 2007, 55, 10628-10634. | 5.2 | 61 |
| 18 | Sodium selenate fertilisation increases selenium accumulation and decreases glucosinolate concentration in rapid-cyclingBrassica oleracea. Journal of the Science of Food and Agriculture, 2001, 81, 962-966. | 3.5 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Shoot tissue pigment levels increase in â€˜Florida Broadleafâ€™ mustard (Brassica juncea L.) microgreens following high light treatment. Scientia Horticulturae, 2012, 140, 96-99. | 3.6 | 56 |
| 20 | Influence of blue/red vs. white LED light treatments on biomass, shoot morphology, and quality parameters of hydroponically grown kale. Scientia Horticulturae, 2018, 235, 189-197. | 3.6 | 55 |
| 21 | Variability in Elemental Accumulations Among LeafyBrassica oleraceaCultivars and Selections. Journal of Plant Nutrition, 2005, 27, 1813-1826. | 1.9 | 44 |
| 22 | Ketocarotenoid Production in Soybean Seeds through Metabolic Engineering. PLoS ONE, 2015, 10, e0138196. | 2.5 | 42 |
| 23 | Spinach Cultigen Variation for Tissue Carotenoid Concentrations Influences Human Serum Carotenoid Levels and Macular Pigment Optical Density Following a 12-Week Dietary Intervention. Journal of Agricultural and Food Chemistry, 2006, 54, 7998-8005. | 5.2 | 40 |
| 24 | Selenate Concentration Affects Selenium and Sulfur Uptake and Accumulation by `Granex 33' Onions. Journal of the American Society for Horticultural Science, 1997, 122, 721-726. | 1.0 | 39 |
| 25 | Selenium accumulation in a rapidâ€cyclingBrassica oleraceapopulation responds to increasing sodium seienate concentrations. Journal of Plant Nutrition, 1999, 22, 927-937. | 1.9 | 37 |
| 26 | Physiological role of carotenoids and other antioxidants in plants and application to turfgrass stress management. New Zealand Journal of Crop and Horticultural Science, 2009, 37, 327-333. | 1.3 | 37 |
| 27 | Selenium Regulates Gene Expression for Glucosinolate and Carotenoid Biosynthesis in Arabidopsis. Journal of the American Society for Horticultural Science, 2011, 136, 23-34. | 1.0 | 36 |
| 28 | Kale Carotenoids Are Unaffected by, whereas Biomass Production, Elemental Concentrations, and Selenium Accumulation Respond to, Changes in Selenium Fertility. Journal of Agricultural and Food Chemistry, 2006, 54, 1764-1771. | 5.2 | 35 |
| 29 | Biomass Production and Pigment Accumulation in Kale Grown Under Increasing Photoperiods. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 603-606. | 1.0 | 35 |
| 30 | Title is missing!. Euphytica, 1997, 96, 385-390. | 1.2 | 33 |
| 31 | Effects of Mesotrione on Perennial Ryegrass (Lolium perenne L.) Carotenoid Concentrations under Varying Environmental Conditions. Journal of Agricultural and Food Chemistry, 2008, 56, 9133-9139. | 5.2 | 29 |
| 32 | Nutrient accumulation in leaf tissue of rapidâ€cyclingbrassuca oleracearesponds to increasing sodium selenate concentrations. Journal of Plant Nutrition, 2000, 23, 927-935. | 1.9 | 28 |
| 33 | Micropropagation of Populus trichocarpa â€˜Nisqually-1â€™: the genotype deriving the Populus reference genome. Plant Cell, Tissue and Organ Culture, 2009, 99, 251-257. | 2.3 | 28 |
| 34 | Increase in Nutritionally Important Sweet Corn Kernel Carotenoids following Mesotrione and Atrazine Applications. Journal of Agricultural and Food Chemistry, 2009, 57, 6362-6368. | 5.2 | 28 |
| 35 | Nitrogen and Sulfur Influence Nutrient Usage and Accumulation in Onion. Journal of Plant Nutrition, 2005, 27, 1667-1686. | 1.9 | 27 |
| 36 | Nitrogen form and ratio impact Swiss chard (Beta vulgaris subsp. cicla) shoot tissue carotenoid and chlorophyll concentrations. Scientia Horticulturae, 2016, 204, 99-105. | 3.6 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Importance of Genotype on Carotenoid and Chlorophyll Levels in Broccoli Heads. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 1248-1253. | 1.0 | 25 |
| 38 | Nitrogen Levels Influence Biomass, Elemental Accumulations, and Pigment Concentrations in Spinach. Journal of Plant Nutrition, 2007, 30, 171-185. | 1.9 | 24 |
| 39 | Foliar applications of abscisic acid decrease the incidence of blossom-end rot in tomato fruit. Scientia Horticulturae, 2014, 179, 356-362. | 3.6 | 24 |
| 40 | Genetic Variation in Carotenoid Concentrations among Diploid and Amphidiploid Rapid-cycling Brassica Species. Hortscience: A Publication of the American Society for Hortcultural Science, 2007, 42, 461-465. | 1.0 | 22 |
| 41 | Dry Matter Content and Stability of Carotenoids in Kale and Spinach During Drying. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 1731-1736. | 1.0 | 22 |
| 42 | Response of Hybrid Bermudagrass (Cynodon dactylonÃ— C.transvaalensis) to Three HPPD-Inhibitors. Weed Science, 2011, 59, 458-463. | 1.5 | 21 |
| 43 | Fungal mutualists enhanceÂgrowth and phytochemical content in Echinacea purpurea. Symbiosis, 2014, 63, 111-121. | 2.3 | 21 |
| 44 | Several Pesticides Influence the Nutritional Content of Sweet Corn. Journal of Agricultural and Food Chemistry, 2018, 66, 3086-3092. | 5.2 | 21 |
| 45 | Selenization of Basil and Cilantro Through Foliar Applications of Selenate-selenium and Selenite-selenium. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 438-442. | 1.0 | 21 |
| 46 | Optimizing Plant Density and Production Systems to Maximize Yield of Greenhouse-grown â€˜Trustâ€™ Tomatoes. HortTechnology, 2012, 22, 44-48. | 0.9 | 21 |
| 47 | Selenium Affects the S-alk(en)yl Cysteine Sulfoxides among Short-day Onion Cultivars. Journal of the American Society for Horticultural Science, 1999, 124, 307-311. | 1.0 | 21 |
| 48 | Soil Type and Rooting Depth Affect Hybrid Bermudagrass Injury with Preemergence Herbicides. Crop Science, 2013, 53, 660-665. | 1.8 | 20 |
| 49 | Leaf tissue pigments and chlorophyll fluorescence parameters vary among sweet corn genotypes of differential herbicide sensitivity. Pesticide Biochemistry and Physiology, 2011, 99, 194-199. | 3.6 | 19 |
| 50 | Interaction of light quality and fertility on biomass, shoot pigmentation and xanthophyll cycle flux in Chinese kale. Journal of the Science of Food and Agriculture, 2017, 97, 911-917. | 3.5 | 19 |
| 51 | Methods of Assessing Bermudagrass [Cynodon dactylon] Responses to HPPDâ€Inhibiting Herbicides. Crop Science, 2011, 51, 2840-2845. | 1.8 | 18 |
| 52 | Carotenoid and Chlorophyll Pigments in Sweet Basil Grown in the Field and Greenhouse. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1119D-1119. | 1.0 | 18 |
| 53 | Mesotrione plus Prodiamine for Smooth Crabgrass (Digitaria ischaemum) Control in Established Bermudagrass Turf. Weed Technology, 2008, 22, 275-279. | 0.9 | 17 |
| 54 | Mesotrione control and pigment concentration of large crabgrass (Digitaria sanguinalis) under varying environmental conditions. Pest Management Science, 2009, 65, 640-644. | 3.4 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Abscisic acid improves tomato fruit quality by increasing soluble sugar concentrations. Journal of Plant Nutrition, 2017, 40, 964-973. | 1.9 | 17 |
| 56 | Seed Inorganic Phosphorus Stability and Agronomic Performance of Two Lowâ€Phytate Soybean Lines Evaluated across Six Southeastern US Environments. Crop Science, 2017, 57, 2555-2563. | 1.8 | 17 |
| 57 | Cytochrome P450 Inhibitors Reduce Creeping Bentgrass (Agrostis stolonifera) Tolerance to Topramezone. PLoS ONE, 2015, 10, e0130947. | 2.5 | 17 |
| 58 | Abscisic Acid Impacts Tomato Carotenoids, Soluble Sugars, and Organic Acids. Hortscience: A Publication of the American Society for Hortcultural Science, 2016, 51, 370-376. | 1.0 | 17 |
| 59 | Response of Creeping Bentgrass Carotenoid Composition to High and Low Irradiance. Crop Science, 2006, 46, 2606-2612. | 1.8 | 16 |
| 60 | Nitrogen-Enhanced Efficacy of Mesotrione and Topramezone for Smooth Crabgrass (Digitaria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 | 1.5 | 16 |
| 61 | Detection and Confirmation of Quantitative Trait Loci for Soybean Seed Isoflavones. Crop Science, 2014, 54, 595-606. | 1.8 | 16 |
| 62 | Sequentially Reducing Sulfate Fertility During Onion Growth and Development Affects Bulb Flavor at Harvest. Hortscience: A Publication of the American Society for Hortcultural Science, 2002, 37, 118-121. | 1.0 | 16 |
| 63 | A Putative Prodiamine-Resistant Annual Bluegrass (Poa annua) Population is Controlled by Indaziflam. Weed Science, 2014, 62, 138-144. | 1.5 | 15 |
| 64 | Changes in â€˜Rivieraâ€™ Bermudagrass [Cynodon dactylon (L.) Pers.] Carotenoid Pigments after Treatment with Three p-Hydroxyphenylpyruvate Dioxygenase-inhibiting Herbicides. Hortscience: A Publication of the American Society for Hortcultural Science, 2011, 46, 493-498. | 1.0 | 15 |
| 65 | Genetic Variances and Selection Potential for Selenium Accumulation in a Rapid-cycling Brassica oleracea Population. Journal of the American Society for Horticultural Science, 2001, 126, 329-335. | 1.0 | 15 |
| 66 | Effect of Reed-Sedge Peat Moss on Hybrid Bermudagrass Injury with Indaziflam and Prodiamine in Sand-Based Root Zones. Weed Technology, 2013, 27, 547-551. | 0.9 | 14 |
| 67 | RATIO OF CALCIUM TO MAGNESIUM INFLUENCES BIOMASS, ELEMENTAL ACCUMULATIONS, AND PIGMENT CONCENTRATIONS IN KALE. Journal of Plant Nutrition, 2013, 36, 2154-2165. | 1.9 | 13 |
| 68 | Seasonal Application Timings Affect Dallisgrass (Paspalum dilatatum) Control in Tall Fescue. Weed Technology, 2013, 27, 557-564. | 0.9 | 13 |
| 69 | Iron Form and Concentration Affect Nutrition of Container-grown Pelargonium and Calibrachoa. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 244-251. | 1.0 | 13 |
| 70 | Effect of Soybean Oil Fatty Acid Composition and Selenium Application on Biodiesel Properties. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1019-1028. | 1.9 | 12 |
| 71 | Synthesis and Evaluation of Heterocyclic Analogues of Bromoxynil. Journal of Agricultural and Food Chemistry, 2014, 62, 329-336. | 5.2 | 11 |
| 72 | Carotenoid Concentration and Composition in Winter Squash: Variability Associated with Different Cultigens, Harvest Maturities, and Storage Times. Hortscience: A Publication of the American Society for Hortcultural Science, 2016, 51, 472-480. | 1.0 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | UV-B Radiation Impacts Shoot Tissue Pigment Composition inAllium fistulosumL. Cultigens. Scientific World Journal, The, 2013, 2013, 1-10. | 2.1 | 10 |
| 74 | Preemergence Herbicides Affect Hybrid Bermudagrass Nutrient Content. Journal of Plant Nutrition, 2015, 38, 177-188. | 1.9 | 10 |
| 75 | Narrowband Blue and Red LED Supplements Impact Key Flavor Volatiles in Hydroponically Grown Basil Across Growing Seasons. Frontiers in Plant Science, 2021, 12, 623314. | 3.6 | 9 |
| 76 | Exogenous Foliar and Root Applications of Abscisic Acid Increase the Influx of Calcium into Tomato Fruit Tissue and Decrease the Incidence of Blossom-end Rot. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 1397-1402. | 1.0 | 9 |
| 77 | SELENIUM FERTILIZATION INFLUENCES BIOMASS, ELEMENTAL ACCUMULATIONS, AND PHYTOCHEMICAL CONCENTRATIONS IN WATERCRESS. Journal of Plant Nutrition, 2014, 37, 327-342. | 1.9 | 8 |
| 78 | Evaluation of Agronomic and Seed Characteristics in Elevated Oleic Acid Soybean Lines in the South-Eastern US. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1333. | 1.9 | 7 |
| 79 | Increases in Bermudagrass [Cynodon dactylon (L.) Pers.] Tissue Pigments during Post-application Recovery from Mesotrione. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 1559-1562. | 1.0 | 7 |
| 80 | Characterization of Nutritionally Important Carotenoids in Bunching Onion. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 463-465. | 1.0 | 7 |
| 81 | Assessments of Bare-root Liner Quality and Purchasing Decisions Made by Green Industry Professionals. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 717-724. | 1.0 | 7 |
| 82 | Seed Germination Response of Rapidâ€CyclingBrassica oleraceaGrown Under Increasing Sodium Selenate. Journal of Plant Nutrition, 2003, 26, 1355-1366. | 1.9 | 6 |
| 83 | IMPACT OF SELENIUM FERTILIZATION ON GLUCOSINOLATE CONCENTRATION INARABIDOPSIS THALIANAAND RAPID CYCLINGBRASSICA OLERACEA. Journal of Plant Nutrition, 2014, 37, 343-356. | 1.9 | 6 |
| 84 | Mesotrione Activity on Crabgrass (Digitariaspp.) as Influenced by Nitrogen Fertilization Rate, Source, and Timing. Weed Technology, 2015, 29, 263-273. | 0.9 | 6 |
| 85 | Applications of Abscisic Acid and Increasing Concentrations of Calcium Affect the Partitioning of Mineral Nutrients between Tomato Leaf and Fruit Tissue. Horticulturae, 2019, 5, 49. | 2.8 | 6 |
| 86 | Evaluation of a Cryogenic Sprayer Using Liquid Nitrogen and a Ballasted Roller for Weed Control. Journal of Testing and Evaluation, 2013, 41, 869-874. | 0.7 | 6 |
| 87 | Pigment Concentrations among Heat-tolerant Turfgrasses. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 650-653. | 1.0 | 5 |
| 88 | Carotenoids in Vegetables. , 2010, , 645-662. | | 4 |
| 89 | Agronomic Performance and Seed Inorganic Phosphorus Stability of Lowâ€Phytate Soybean Line TN09â€239. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 787-796. | 1.9 | 4 |
| 90 | Biomass Production and Pigment Accumulation in Kale Grown Under Different Radiation Cycles in a Controlled Environment. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 1412-1415. | 1.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Sole-Source LED Lighting and Fertility Impact Shoot and Root Tissue Mineral Elements in Chinese Kale (Brassica oleracea var. alboglabra). Horticulturae, 2020, 6, 40. | 2.8 | 3 |
| 92 | (167) Carotenoid Accumulation Among the Diploid and Amphidiploid Brassica Species. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 1081A-1081. | 1.0 | 2 |
| 93 | Trumpetcreeper Control with Various Indole-3-Acetic Acid Mimics and Diflufenzopyr. HortTechnology, 2012, 22, 677-681. | 0.9 | 2 |
| 94 | Biokinetics and Efficacy of Aminocyclopyrachlor-Methyl Ester as Influenced by Diflufenzopyr. Weed Science, 2014, 62, 538-547. | 1.5 | 1 |
| 95 | Effects of abscisic acid and calcium on tomato fruit aroma volatiles. Journal of Plant Nutrition, 2017, 40, 2096-2100. | 1.9 | 1 |
| 96 | Seasonal Application Timings Affect Dallisgrass (Paspalum dilatatum) Control in Tall Fescue â€“ CORRIGENDUM. Weed Technology, 2018, 32, 224-224. | 0.9 | 0 |