

# Kurt A Spokas

## List of Publications by Year in descending order

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146  
papers

11,524  
citations

34076

52  
h-index

29127

104  
g-index

152  
all docs

152  
docs citations

152  
times ranked

10116  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Review of the stability of biochar in soils: predictability of O:C molar ratios. <i>Carbon Management</i> , 2010, 1, 289-303.   | 1.2 | 847       |
| 2  | Biochar: A Synthesis of Its Agronomic Impact beyond Carbon Sequestration. <i>Journal of Environmental Quality</i> , 2012, 41, 973-989.  | 1.0 | 738       |
| 3  | Impacts of woodchip biochar additions on greenhouse gas production and sorption/degradation of two herbicides in a Minnesota soil. <i>Chemosphere</i> , 2009, 77, 574-581.            | 4.2 | 526       |
| 4  | Microbial methane oxidation processes and technologies for mitigation of landfill gas emissions. <i>Waste Management and Research</i> , 2009, 27, 409-455.                            | 2.2 | 406       |
| 5  | Qualitative analysis of volatile organic compounds on biochar. <i>Chemosphere</i> , 2011, 85, 869-882.  | 4.2 | 384       |
| 6  | Characteristics and Applications of Biochar for Environmental Remediation: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 939-969.             | 6.6 | 362       |
| 7  | Biochar, soil and land-use interactions that reduce nitrate leaching and N <sub>2</sub> O emissions: A meta-analysis. <i>Science of the Total Environment</i> , 2019, 651, 2354-2364. | 3.9 | 339       |
| 8  | Feedstock choice, pyrolysis temperature and type influence biochar characteristics: a comprehensive meta-data analysis review. <i>Biochar</i> , 2020, 2, 421-438.                     | 6.2 | 333       |
| 9  | Physical and chemical characterization of waste wood derived biochars. <i>Waste Management</i> , 2015, 36, 256-268.   | 3.7 | 297       |
| 10 | Methane mass balance at three landfill sites: What is the efficiency of capture by gas collection systems?. <i>Waste Management</i> , 2006, 26, 516-525.                              | 3.7 | 292       |
| 11 | Ethylene: potential key for biochar amendment impacts. <i>Plant and Soil</i> , 2010, 333, 443-452.  | 1.8 | 274       |
| 12 | Nitrogen Oxide and Methane Emissions under Varying Tillage and Fertilizer Management. <i>Journal of Environmental Quality</i> , 2005, 34, 1467-1477.                                  | 1.0 | 251       |
| 13 | Physical Disintegration of Biochar: An Overlooked Process. <i>Environmental Science and Technology Letters</i> , 2014, 1, 326-332.  | 3.9 | 245       |
| 14 | Biochar's role as an alternative N-fertilizer: ammonia capture. <i>Plant and Soil</i> , 2012, 350, 35-42.   | 1.8 | 242       |
| 15 | Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 562-570.            | 1.9 | 220       |
| 16 | Phosphorus Reclamation through Hydrothermal Carbonization of Animal Manures. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10323-10329.                                   | 4.6 | 201       |
| 17 | Impact of biochar field aging on laboratory greenhouse gas production potentials. <i>GCB Bioenergy</i> , 2013, 5, 165-176.  | 2.5 | 198       |
| 18 | Predicting the impact of biochar additions on soil hydraulic properties. <i>Chemosphere</i> , 2016, 142, 136-144.   | 4.2 | 196       |

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|----|---|-----|-----------|
| 19 | Activated Carbon, Biochar and Charcoal: Linkages and Synergies across Pyrogenic Carbon's ABCs. Water (Switzerland), 2018, 10, 182.  | 1.2 | 195       |
| 20 | Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. Science of the Total Environment, 2018, 618, 1210-1223.      | 3.9 | 163       |
| 21 | Kinetics of Methane Oxidation in a Landfill Cover Soil: Temporal Variations, a Whole-Landfill Oxidation Experiment, and Modeling of Net CH <sub>4</sub> Emissions. Environmental Science & Technology, 1997, 31, 2504-2514.                   | 4.6 | 151       |
| 22 | Influence of biochar amendments on the sorption-desorption of aminocyclopyrachlor, bentazone and pyraclostrobin pesticides to an agricultural soil. Science of the Total Environment, 2014, 470-471, 438-443.                                 | 3.9 | 144       |
| 23 | BIOCHAR AS A TOOL TO REDUCE THE AGRICULTURAL GREENHOUSE-GAS BURDEN – KNOWN, UNKNOWN AND FUTURE RESEARCH NEEDS. Journal of Environmental Engineering and Landscape Management, 2017, 25, 114-139.  | 0.4 | 144       |
| 24 | Landfills as atmospheric methane sources and sinks. Chemosphere, 1995, 31, 4119-4130.   | 4.2 | 142       |
| 25 | Sorption of ammonium and nitrate to biochars is electrostatic and pH-dependent. Scientific Reports, 2018, 8, 17627.   | 1.6 | 140       |
| 26 | Comparative Sorption and Leaching Study of the Herbicides Fluometuron and 4-Chloro-2-methylphenoxyacetic Acid (MCPA) in a Soil Amended with Biochars and Other Sorbents. Journal of Agricultural and Food Chemistry, 2011, 59, 12550-12560.   | 2.4 | 125       |
| 27 | Landfill CH <sub>4</sub> : Rates, fates, and role in global carbon cycle. Chemosphere, 1993, 26, 369-386.   | 4.2 | 123       |
| 28 | Limits and dynamics of methane oxidation in landfill cover soils. Waste Management, 2011, 31, 823-832.  | 3.7 | 122       |
| 29 | Determination of polycyclic aromatic hydrocarbons in biochar and biochar amended soil. Journal of Analytical and Applied Pyrolysis, 2013, 103, 60-67.   | 2.6 | 122       |
| 30 | Influence of Soil Biochar Aging on Sorption of the Herbicides MCPA, Nicosulfuron, Terbutylazine, Indaziflam, and Fluoroethylidiaminotriazine. Journal of Agricultural and Food Chemistry, 2014, 62, 10855-10860.                              | 2.4 | 102       |
| 31 | Accuracy and Precision Analysis of Chamber-Based Nitrous Oxide Gas Flux Estimates. Soil Science Society of America Journal, 2009, 73, 1087-1093.  | 1.2 | 95        |
| 32 | Remediation of an acidic mine spoil: Miscanthus biochar and lime amendment affects metal availability, plant growth, and soil enzyme activity. Chemosphere, 2018, 205, 709-718.   | 4.2 | 91        |
| 33 | Implications of the spatial variability of landfill emission rates on geospatial analyses. Waste Management, 2003, 23, 599-607.   | 3.7 | 90        |
| 34 | Designing advanced biochar products for maximizing greenhouse gas mitigation potential. Critical Reviews in Environmental Science and Technology, 2016, 46, 1367-1401.  | 6.6 | 86        |
| 35 | Biochar and Manure Effects on Net Nitrogen Mineralization and Greenhouse Gas Emissions from Calcareous Soil under Corn. Soil Science Society of America Journal, 2014, 78, 1641-1655.   | 1.2 | 82        |
| 36 | Analytical pyrolysis of synthetic chars derived from biomass with potential agronomic application (biochar). Relationships with impacts on microbial carbon dioxide production. Journal of Analytical and Applied Pyrolysis, 2012, 93, 77-84. | 2.6 | 79        |

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|----|---|-----|-----------|
| 37 | Short-term temporal changes of soil carbon losses after tillage described by a first-order decay model. <i>Soil and Tillage Research</i> , 2008, 99, 108-118.   | 2.6 | 77        |
| 38 | Seasonal Greenhouse Gas Emissions (Methane, Carbon Dioxide, Nitrous Oxide) from Engineered Landfills: Daily, Intermediate, and Final California Cover Soils. <i>Journal of Environmental Quality</i> , 2011, 40, 1010-1020. | 1.0 | 77        |
| 39 | Impact of Biochar on Earthworm Populations: A Review. <i>Applied and Environmental Soil Science</i> , 2011, 2011, 1-12.   | 0.8 | 76        |
| 40 | Genetic Variation for Life History Sensitivity to Seasonal Warming in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2014, 196, 569-577.   | 1.2 | 69        |
| 41 | Biochars impact on water infiltration and water quality through a compacted subsoil layer. <i>Chemosphere</i> , 2016, 142, 160-167.   | 4.2 | 67        |
| 42 | Rapid and distinct responses of particulate and mineral-associated organic nitrogen to conservation tillage and cover crops. <i>Geoderma</i> , 2020, 359, 114001.   | 2.3 | 66        |
| 43 | Estimating hourly incoming solar radiation from limited meteorological data. <i>Weed Science</i> , 2006, 54, 182-189.   | 0.8 | 65        |
| 44 | Observations on the methane oxidation capacity of landfill soils. <i>Waste Management</i> , 2011, 31, 914-925.  | 3.7 | 65        |
| 45 | A Hydrothermal Seedling Emergence Model for Giant Ragweed ( <i>Ambrosia trifida</i> ). <i>Weed Science</i> , 2008, 56, 555-560.   | 0.8 | 64        |
| 46 | Enhancing Cation Exchange Capacity of Weathered Soils Using Biochar: Feedstock, Pyrolysis Conditions and Addition Rate. <i>Agronomy</i> , 2020, 10, 824.  | 1.3 | 64        |
| 47 | Software Tools for Weed Seed Germination Modeling. <i>Weed Science</i> , 2009, 57, 216-227.   | 0.8 | 63        |
| 48 | Review of the Effects of Biochar Amendment on Soil Properties and Carbon Sequestration. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2016, 20, .   | 1.2 | 63        |
| 49 | Pesticide sorption and leaching potential on three Hawaiian soils. <i>Journal of Environmental Management</i> , 2015, 159, 227-234.   | 3.8 | 62        |
| 50 | Carbon and Nitrogen Storage are Greater under Biennial Tillage in a Minnesota Corn-Soybean Rotation. <i>Soil Science Society of America Journal</i> , 2006, 70, 1752-1762.  | 1.2 | 60        |
| 51 | Assessment of Mesotrione Leaching Applied Alone and Mixed in Seven Tropical Soils Columns under Laboratory Conditions. <i>Agriculture (Switzerland)</i> , 2018, 8, 1.   | 1.4 | 59        |
| 52 | Efficacies of designer biochars in improving biomass and nutrient uptake of winter wheat grown in a hard setting subsoil layer. <i>Chemosphere</i> , 2016, 142, 176-183.  | 4.2 | 57        |
| 53 | Changes in sorption and bioavailability of herbicides in soil amended with fresh and aged biochar. <i>Geoderma</i> , 2019, 337, 341-349.  | 2.3 | 55        |
| 54 | Multi-year and multi-location soil quality and crop biomass yield responses to hardwood fast pyrolysis biochar. <i>Geoderma</i> , 2017, 289, 46-53.   | 2.3 | 54        |

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|----|--|-----|-----------|
| 55 | Influence of pyrolysis temperature and hardwood species on resulting biochar properties and their effect on azimsulfuron sorption as compared to other sorbents. <i>Science of the Total Environment</i> , 2016, 566-567, 1454-1464. | 3.9 | 51        |
| 56 | Quantification and source apportionment of the methane emission flux from the city of Indianapolis. <i>Elementa</i> , 2015, 3, .   | 1.1 | 50        |
| 57 | GHG impacts of biochar: Predictability for the same biochar. <i>Agriculture, Ecosystems and Environment</i> , 2015, 207, 183-191.  | 2.5 | 48        |
| 58 | Soil Health, Crop Productivity, Microbial Transport, and Mine Spoil Response to Biochars. <i>Bioenergy Research</i> , 2016, 9, 454-464.  | 2.2 | 48        |
| 59 | Biochar Soil Additions Affect Herbicide Fate: Importance of Application Timing and Feedstock Species. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3109-3117.   | 2.4 | 48        |
| 60 | Temporal Variations in Greenhouse Gas Emissions at a Midlatitude Landfill. <i>Journal of Environmental Quality</i> , 1999, 28, 278-288.  | 1.0 | 47        |
| 61 | Characterization and selection of biochar for an efficient retention of tricyclazole in a flooded alluvial paddy soil. <i>Journal of Hazardous Materials</i> , 2015, 286, 581-588.   | 6.5 | 47        |
| 62 | Biochars multifunctional role as a novel technology in the agricultural, environmental, and industrial sectors. <i>Chemosphere</i> , 2016, 142, 1-3.   | 4.2 | 47        |
| 63 | Mechanisms of N <sub>2</sub> O production following chloropicrin fumigation. <i>Applied Soil Ecology</i> , 2006, 31, 101-109.  | 2.1 | 44        |
| 64 | An Emergence Model for Wild Oat ( <i>Avena fatua</i> ). <i>Weed Science</i> , 2007, 55, 584-591.   | 0.8 | 44        |
| 65 | Understanding Activation Effects on Low-Temperature Biochar for Optimization of Herbicide Sorption. <i>Agronomy</i> , 2019, 9, 588.  | 1.3 | 40        |
| 66 | Greenhouse Gas Production in Mixtures of Soil with Composted and Noncomposted Biochars Is Governed by Char-Associated Organic Compounds. <i>Journal of Environmental Quality</i> , 2014, 43, 971-979.                                | 1.0 | 39        |
| 67 | A process-based inventory model for landfill CH <sub>4</sub> emissions inclusive of seasonal soil microclimate and CH <sub>4</sub> oxidation. <i>Journal of Geophysical Research</i> , 2011, 116, .                                  | 3.3 | 38        |
| 68 | Sorption and predicted mobility of herbicides in Baltic soils. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2007, 42, 641-647.                               | 0.7 | 37        |
| 69 | Leachate water quality of soils amended with different swine manure-based amendments. <i>Chemosphere</i> , 2016, 142, 92-99.   | 4.2 | 37        |
| 70 | Greenhouse gas production and emission from a forest nursery soil following fumigation with chloropicrin and methyl isothiocyanate. <i>Soil Biology and Biochemistry</i> , 2005, 37, 475-485.  | 4.2 | 36        |
| 71 | Metolachlor Sorption and Degradation in Soil Amended with Fresh and Aged Biochars. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3141-3149.  | 2.4 | 36        |
| 72 | Carbon Dosing Increases Nitrate Removal Rates in Denitrifying Bioreactors at Low Temperature High Flow Conditions. <i>Journal of Environmental Quality</i> , 2018, 47, 856-864.  | 1.0 | 35        |

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|----|---|-----|-----------|
| 73 | Large differences in potential denitrification and sediment microbial communities across the Laurentian great lakes. <i>Biogeochemistry</i> , 2016, 128, 353-368.   | 1.7 | 34        |
| 74 | Denitrification kinetics in biomass- and biochar-amended soils of different landscape positions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 5152-5163.   | 2.7 | 32        |
| 75 | Concentration and Release of Phosphorus and Potassium From Lignocellulosic- and Manure-Based Biochars for Fertilizer Reuse. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .   | 1.8 | 31        |
| 76 | Biochar reduces the efficiency of nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) mitigating N <sub>2</sub> O emissions. <i>Scientific Reports</i> , 2019, 9, 2346.   | 1.6 | 31        |
| 77 | Construction of an Electrical Device for Sampling Earthworm Populations in the Field. <i>Applied Engineering in Agriculture</i> , 2008, 24, 391-397.  | 0.3 | 30        |
| 78 | Soil Functional Zone Management: A Vehicle for Enhancing Production and Soil Ecosystem Services in Row-Crop Agroecosystems. <i>Frontiers in Plant Science</i> , 2016, 7, 65.  | 1.7 | 30        |
| 79 | Pyrolysis biochar has negligible effects on soil greenhouse gas production, microbial communities, plant germination, and initial seedling growth. <i>Chemosphere</i> , 2019, 228, 565-576.   | 4.2 | 30        |
| 80 | Assessing the Effect of Organoclays and Biochar on the Fate of Abscisic Acid in Soil. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 29-38.  | 2.4 | 28        |
| 81 | Glyphosate sorption/desorption on biochars – interactions of physical and chemical processes. <i>Pest Management Science</i> , 2018, 74, 1206-1212.   | 1.7 | 27        |
| 82 | Phytostabilization of acidic mine tailings with biochar, biosolids, lime, and locally-sourced microbial inoculum: Do amendment mixtures influence plant growth, tailing chemistry, and microbial composition?. <i>Applied Soil Ecology</i> , 2021, 165, 103962. | 2.1 | 27        |
| 83 | Degradation of Methyl Isothiocyanate and Chloropicrin in Forest Nursery Soils. <i>Journal of Environmental Quality</i> , 2005, 34, 1566-1572.   | 1.0 | 25        |
| 84 | Plastics – still young, but having a mature impact. <i>Waste Management</i> , 2008, 28, 473-474.  | 3.7 | 25        |
| 85 | Mechanisms for 1,3-Dichloropropene Dissipation in Biochar-Amended Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2531-2540.   | 2.4 | 25        |
| 86 | Response of maize germination and growth to hydrothermal carbonization filtrate type and amount. <i>Plant and Soil</i> , 2015, 396, 127-136.  | 1.8 | 23        |
| 87 | Reconciling opposing soil processes in row-crop agroecosystems via soil functional zone management. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 99-107.   | 2.5 | 23        |
| 88 | Short-term temporal changes of bare soil CO <sub>2</sub> fluxes after tillage described by first-order decay models. <i>European Journal of Soil Science</i> , 2009, 60, 258-264.   | 1.8 | 22        |
| 89 | Structural Equation Modeling Facilitates Transdisciplinary Research on Agriculture and Climate Change. <i>Crop Science</i> , 2014, 54, 475-483.   | 0.8 | 22        |
| 90 | Can using polymer-coated seed reduce the risk of poor soybean emergence in no-tillage soil?. <i>Field Crops Research</i> , 2012, 125, 109-116.  | 2.3 | 21        |

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|-----|--|-----|-----------|
| 91  | Crop residue decomposition in Minnesota biochar-amended plots. <i>Solid Earth</i> , 2014, 5, 499-507.  | 1.2 | 21        |
| 92  | Effects of biochars and hydrochars produced from lignocellulosic and animal manure on fertility of a Mollisol and Entisol. <i>Soil Use and Management</i> , 2014, 30, 175-181.   | 2.6 | 21        |
| 93  | CO <sub>2</sub> and N <sub>2</sub> O emissions in a soil chronosequence at a glacier retreat zone in Maritime Antarctica. <i>Science of the Total Environment</i> , 2015, 521-522, 336-345.                                  | 3.9 | 21        |
| 94  | Phytostabilization of Zn and Cd in Mine Soil Using Corn in Combination with Biochars and Manure-Based Compost. <i>Environments - MDPI</i> , 2019, 6, 69.   | 1.5 | 21        |
| 95  | Fumigant distribution in forest nursery soils under water seal and plastic film after application of dazomet, metam-sodium and chloropicrin. <i>Pest Management Science</i> , 2006, 62, 263-273.                             | 1.7 | 20        |
| 96  | Stimulation of nitrous oxide production resulted from soil fumigation with chloropicrin. <i>Atmospheric Environment</i> , 2003, 37, 3501-3507.   | 1.9 | 19        |
| 97  | SeedChaser: Vertical soil tillage distribution model. <i>Computers and Electronics in Agriculture</i> , 2007, 57, 62-73.   | 3.7 | 19        |
| 98  | A comparison of soil hydrothermal properties in zonal and uniform tillage systems across the US Corn Belt. <i>Geoderma</i> , 2016, 273, 12-19.   | 2.3 | 19        |
| 99  | Assessing biochar's ability to reduce bioavailability of aminocyclopyrachlor in soils. <i>Environmental Pollution</i> , 2014, 189, 92-97.  | 3.7 | 18        |
| 100 | Biochar research activities and their relation to development and environmental quality. A meta-analysis. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.   | 2.2 | 17        |
| 101 | Dynamic Effect of Fresh and Aged Biochar on the Behavior of the Herbicide Mesotrione in Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9450-9459.  | 2.4 | 17        |
| 102 | Global Diversity of the <i>Brachypodium</i> Species Complex as a Resource for Genome-Wide Association Studies Demonstrated for Agronomic Traits in Response to Climate. <i>Genetics</i> , 2019, 211, 317-331.                | 1.2 | 17        |
| 103 | Emergence Prediction of Common Groundsel ( <i>Senecio Vulgaris</i> ). <i>Weed Science</i> , 2008, 56, 58-65.   | 0.8 | 16        |
| 104 | From California dreaming to California data: Challenging historic models for landfill CH <sub>4</sub> emissions. <i>Elementa</i> , 2015, 3, .  | 1.1 | 16        |
| 105 | Atmospheric emissions of methyl isothiocyanate and chloropicrin following soil fumigation and surface containment treatment in bare-root forest nurseries. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1202-1212. | 0.8 | 15        |
| 106 | Effects of soil fumigants on methanotrophic activity. <i>Atmospheric Environment</i> , 2007, 41, 8150-8162.  | 1.9 | 15        |
| 107 | Evaluating Agricultural Management Effects on Alachlor Availability: Tillage, Green Manure, and Biochar. <i>Agronomy</i> , 2017, 7, 64.  | 1.3 | 15        |
| 108 | Collapse of Reacted Fracture Surface Decreases Permeability and Frictional Strength. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12799-12811.   | 1.4 | 15        |

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|-----|---|-----|-----------|
| 109 | Precision control of soil nitrogen cycling via soil functional zone management. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 291-295.  | 2.5 | 14        |
| 110 | Field measurements and modeling to resolve m <sup>2</sup> to km <sup>2</sup> CH <sub>4</sub> emissions for a complex urban source: An Indiana landfill study. <i>Elementa</i> , 2017, 5, .                        | 1.1 | 14        |
| 111 | First-order decay models to describe soil C-CO <sub>2</sub> Loss after rotary tillage. <i>Scientia Agricola</i> , 2009, 66, 650-657.  | 0.6 | 12        |
| 112 | Biochar changes the bioavailability and bioefficacy of the allelochemical coumarin in agricultural soils. <i>Pest Management Science</i> , 2021, 77, 834-843.   | 1.7 | 12        |
| 113 | Ratio of CO <sub>2</sub> and O <sub>2</sub> as index for categorising soil biological activity in sugarcane areas under contrasting straw management regimes. <i>Soil Research</i> , 2018, 56, 373.               | 0.6 | 11        |
| 114 | Improved methodology to assess modification and completion of landfill gas management in the aftercare period. <i>Waste Management</i> , 2012, 32, 2364-2373.   | 3.7 | 10        |
| 115 | Phenolic Acid Sorption to Biochars from Mixtures of Feedstock Materials. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.  | 1.1 | 10        |
| 116 | Columns and Detectors Recommended in Gas Chromatography to Measure Greenhouse Emission and O <sub>2</sub> Uptake in Soil: A Review. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 582-594. | 0.6 | 10        |
| 117 | Impact of Biochar Particle Shape and Size on Saturated Hydraulic Properties of Soil. <i>Korean Journal of Environmental Agriculture</i> , 2018, 37, 1-8.  | 0.0 | 10        |
| 118 | Special issue on landfill gas emission and mitigation. <i>Waste Management</i> , 2011, 31, 821-822.   | 3.7 | 9         |
| 119 | Assessing Microbial Contributions to N <sub>2</sub> O Impacts Following Biochar Additions. <i>Agronomy</i> , 2014, 4, 478-496.  | 1.3 | 9         |
| 120 | Research and Application of Biochar in North America. <i>SSSA Special Publication Series</i> , 0, , 475-494.  | 0.2 | 9         |
| 121 | Temperature alters dicyandiamide (DCD) efficacy for multiple reactive nitrogen species in urea-amended soils: Experiments and modeling. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108341.                 | 4.2 | 9         |
| 122 | Impacts of Biochar (Black Carbon) Additions on the Sorption and Efficacy of Herbicides. , 0, , .  |     | 8         |
| 123 | Swathing and Windrowing as Harvest Aids for Cuphea. <i>Agronomy Journal</i> , 2007, 99, 415-418.  | 0.9 | 7         |
| 124 | Soil Greenhouse Gases: Relations to Soil Attributes in a Sugarcane Production Area. <i>Soil Science Society of America Journal</i> , 2017, 81, 1168-1178.   | 1.2 | 7         |
| 125 | Sugarcane residue management impact soil greenhouse gas. <i>Ciencia E Agrotecnologia</i> , 2018, 42, 195-203.   | 1.5 | 7         |
| 126 | Microbial response to designer biochar and compost treatments for mining impacted soils. <i>Biochar</i> , 2021, 3, 299-314.   | 6.2 | 7         |



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|-----|--|-----|-----------|
| 127 | Relative proportions of organic carbon functional groups in biochars as influenced by spectral data collection and processing. <i>Chemosphere</i> , 2021, 283, 131023. | 4.2 | 6         |
| 128 | Field System for Continuous Measurement of Landfill Gas Pressures and Temperatures. <i>Waste Management and Research</i> , 1996, 14, 233-242.                          | 2.2 | 5         |
| 129 | Plant Macro- and Micronutrient Dynamics in a Biochar-Amended Wetland Muck. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.                                       | 1.1 | 5         |
| 130 | Biomass or biochar “ which is better at improving soil hydraulic properties?. <i>Acta Horticulturae</i> , 2016, , 235-242.   | 0.1 | 5         |
| 131 | Biochar insights from laboratory incubations monitoring O2 consumption and CO2 production. <i>Biochar</i> , 2019, 1, 249-258.  | 6.2 | 5         |
| 132 | Nitrate removal and nitrous oxide production from upflow and downflow column woodchip bioreactors. <i>Agricultural and Environmental Letters</i> , 2020, 5, e20024.    | 0.8 | 4         |
| 133 | Potential greenhouse gases emissions by different plant communities in maritime Antarctica. <i>Anais Da Academia Brasileira De Ciencias</i> , 2022, 94, .              | 0.3 | 4         |
| 134 | Measurement of Microbial Biomass and Activity in Landfill Soils. <i>Waste Management and Research</i> , 1995, 13, 137-147.   | 2.2 | 3         |
| 135 | Microbial Response to Phytostabilization in Mining Impacted Soils Using Maize in Conjunction with Biochar and Compost. <i>Microorganisms</i> , 2021, 9, 2545.          | 1.6 | 3         |
| 136 | Measurement of nitrous oxide concentrations from Wisconsin dairy barns. , 2009, , .  |     | 2         |
| 137 | Measurement of microbial biomass and activity in landfill soils. <i>Waste Management and Research</i> , 1995, 13, 137-147.   | 2.2 | 1         |
| 138 | FIELD SYSTEM FOR CONTINUOUS MEASUREMENT OF LANDFILL GAS PRESSURES AND TEMPERATURES. <i>Waste Management and Research</i> , 1996, 14, 233-242.                          | 2.2 | 1         |
| 139 | Methane: Signs of progress along the road. <i>Waste Management</i> , 2007, 27, 459-460.  | 3.7 | 0         |
| 140 | Know Your Community-Biochar: Agronomic and Environmental Uses Community. <i>CSA News</i> , 2013, 58, 25-25.  | 0.1 | 0         |
| 141 | Enhanced control of soil nitrogen cycling through soil functional zone management. <i>Crops &amp; Soils</i> , 2016, 49, 42-45.   | 0.1 | 0         |
| 142 | Creating a Biochar Roadmap. <i>CSA News</i> , 2018, 63, 24-25.   | 0.1 | 0         |
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