

Avi Shaviv

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,479
citations

516561

16
h-index

552653

26
g-index

26
all docs

26
docs citations

26
times ranked

1502
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in controlled-release fertilizers. <i>Advances in Agronomy</i> , 2001, 71, 1-49.	2.4	445
2	Modeling Controlled Nutrient Release from Polymer Coated Fertilizers: Diffusion Release from Single Granules. <i>Environmental Science & Technology</i> , 2003, 37, 2251-2256.	4.6	158
3	Release Characteristics of Nutrients from Polymer-coated Compound Controlled Release Fertilizers. <i>Journal of Polymers and the Environment</i> , 2006, 14, 223-230.	2.4	147
4	Soil identification and chemometrics for direct determination of nitrate in soils using FTIR-ATR mid-infrared spectroscopy. <i>Chemosphere</i> , 2005, 61, 652-658.	4.2	98
5	Model Demonstrating the Potential for Coupled Nitrification Denitrification in Soil Aggregates. <i>Environmental Science & Technology</i> , 2005, 39, 4180-4188.	4.6	79
6	Modeling Controlled Nutrient Release from a Population of Polymer Coated Fertilizers: A Statistically Based Model for Diffusion Release. <i>Environmental Science & Technology</i> , 2003, 37, 2257-2261.	4.6	62
7	Release characteristics of a new controlled release fertilizer. <i>Journal of Controlled Release</i> , 1997, 43, 131-138.	4.8	59
8	Phosphorus dynamics in soils irrigated with reclaimed waste water or fresh water – A study using oxygen isotopic composition of phosphate. <i>Geoderma</i> , 2010, 159, 109-121.	2.3	59
9	Method for the Analysis of Oxygen Isotopic Composition of Soil Phosphate Fractions. <i>Environmental Science & Technology</i> , 2010, 44, 7583-7588.	4.6	57
10	Characterization of Soils Using Photoacoustic Mid-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 1063-1067.	1.2	53
11	Fourier Transform Infrared – Attenuated Total Reflection Nitrate Determination of Soil Pastes Using Principal Component Regression, Partial Least Squares, and Cross-Correlation. <i>Applied Spectroscopy</i> , 2004, 58, 516-520.	1.2	46
12	Impact of treated wastewater on growth, respiration and hydraulic conductivity of citrus root systems in light and heavy soils. <i>Tree Physiology</i> , 2016, 36, 770-785.	1.4	36
13	Predicting Gross Nitrogen Mineralization and Potentially Mineralizable Nitrogen using Soil Organic Matter Properties. <i>Soil Science Society of America Journal</i> , 2017, 81, 1115-1126.	1.2	28
14	Solute diffusion coefficient in the internal medium of a new gel based controlled release fertilizer. <i>Journal of Controlled Release</i> , 1995, 37, 21-32.	4.8	24
15	Reductions in root hydraulic conductivity in response to clay soil and treated waste water are related to PIPs down-regulation in Citrus. <i>Scientific Reports</i> , 2017, 7, 15429.	1.6	23
16	Direct tracing of NH ₃ and N ₂ O emissions associated with urea fertilization approaches, using static incubation cells. <i>Science of the Total Environment</i> , 2019, 661, 75-85.	3.9	17
17	A Novel Method Combining FTIR-ATR Spectroscopy and Stable Isotopes to Investigate the Kinetics of Nitrogen Transformations in Soils. <i>Soil Science Society of America Journal</i> , 2014, 78, 54-60.	1.2	15
18	Lower leaf gas exchange and higher photorespiration of treated wastewater irrigated Citrus trees is modulated by soil type and climate. <i>Physiologia Plantarum</i> , 2016, 156, 478-496.	2.6	14

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19	In situ Evaluation of Net Nitrification Rate in Terra Rossa Soil Using a Fourier Transform Infrared Attenuated Total Reflection ¹⁵ N Tracing Technique. <i>Applied Spectroscopy</i> , 2009, 63, 1168-1173.	1.2	11
20	Phosphorus Transformations from Reclaimed Wastewater to Irrigated Soil: A ³¹ P NMR Study. <i>Soil Science Society of America Journal</i> , 2014, 78, 1884-1892.	1.2	10
21	Nitrate Determination Using Anion Exchange Membrane and Mid-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2006, 60, 1008-1012.	1.2	9
22	Title is missing!. <i>Transport in Porous Media</i> , 1998, 31, 249-274.	1.2	7
23	Excitation-Emission Matrix Fluorescence Spectroscopy of Soil Water Extracts to Predict Nitrogen Mineralization Rates. <i>Soil Science Society of America Journal</i> , 2018, 82, 126-135.	1.2	7
24	Title is missing!. <i>Transport in Porous Media</i> , 1998, 33, 309-324.	1.2	6
25	Concomitant tracking of NH ₃ , N ₂ O and soil mineral-N using steady-state incubation cells to enhance sustainability of urea fertilization approaches. <i>Geoderma</i> , 2021, 404, 115305.	2.3	5
26	A Collection of Papers from "Advanced Methods for Investigating Nutrient Dynamics in Soils and Ecosystems". <i>Soil Science Society of America Journal</i> , 2014, 78, 1-2.	1.2	4