

# Nikolaos P Nikolaidis

## List of Publications by Year in descending order

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137  
papers

4,388  
citations

76326

40  
h-index

138484

58  
g-index

139  
all docs

139  
docs citations

139  
times ranked

5381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inorganic Arsenic Removal by Zero-Valent Iron. <i>Environmental Engineering Science</i> , 2000, 17, 29-39.	1.6	240
2	Linkages between aggregate formation, porosity and soil chemical properties. <i>Geoderma</i> , 2015, 247-248, 24-37.	5.1	215
3	Arsenic removal by zero-valent iron: field, laboratory and modeling studies. <i>Water Research</i> , 2003, 37, 1417-1425.	11.3	178
4	Arsenic removal from geothermal waters with zero-valent iron—Effect of temperature, phosphate and nitrate. <i>Water Research</i> , 2006, 40, 2375-2386.	11.3	106
5	A novel approach to analysing the regimes of temporary streams in relation to their controls on the composition and structure of aquatic biota. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3165-3182.	4.9	101
6	An integrated approach to watershed management within the DPSIR framework: Axios River catchment and Thermaikos Gulf. <i>Regional Environmental Change</i> , 2005, 5, 138-160.	2.9	82
7	Soil Processes and Functions in Critical Zone Observatories: Hypotheses and Experimental Design. <i>Vadose Zone Journal</i> , 2011, 10, 974-987.	2.2	81
8	Soil Functions: Connecting Earth's Critical Zone. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 333-359.	11.0	78
9	Soil carbon, multiple benefits. <i>Environmental Development</i> , 2015, 13, 33-38.	4.1	75
10	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. <i>River Research and Applications</i> , 2014, 30, 1318-1334.	1.7	74
11	A generalized framework for modeling the hydrologic and biogeochemical response of a Mediterranean temporary river basin. <i>Journal of Hydrology</i> , 2007, 346, 112-121.	5.4	73
12	Regional scale hydrologic modeling of a karst-dominant geomorphology: The case study of the Island of Crete. <i>Journal of Hydrology</i> , 2016, 540, 64-81.	5.4	72
13	Olive mill wastewater irrigation of maize: Impacts on soil and groundwater. <i>Agricultural Water Management</i> , 2011, 98, 1125-1132.	5.6	71
14	Arsenic mobility in contaminated lake sediments. <i>Environmental Pollution</i> , 2004, 129, 479-487.	7.5	68
15	Soil processes and functions across an international network of Critical Zone Observatories: Introduction to experimental methods and initial results. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 758-772.	1.2	68
16	Water and sediment quality assessment of the Axios River and its coastal environment. <i>Continental Shelf Research</i> , 2003, 23, 1929-1944.	1.8	64
17	High-frequency monitoring for the identification of hydrological and bio-geochemical processes in a Mediterranean river basin. <i>Journal of Hydrology</i> , 2010, 389, 127-136.	5.4	63
18	Hydrologic and geochemical modeling of a karstic Mediterranean watershed. <i>Journal of Hydrology</i> , 2013, 477, 129-138.	5.4	63

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19	Modeling suspended sediment transport and assessing the impacts of climate change in a karstic Mediterranean watershed. <i>Science of the Total Environment</i> , 2015, 538, 288-297.	8.0	63
20	In-Stream Biogeochemical Processes of a Temporary River. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1225-1231.	10.0	62
21	Towards sustainable management of Mediterranean river basins: policy recommendations on management aspects of temporary streams. <i>Water Policy</i> , 2013, 15, 830-849.	1.5	61
22	Production of organic fertilizer from olive mill wastewater by combining solar greenhouse drying and composting. <i>Waste Management</i> , 2018, 75, 305-311.	7.4	61
23	Origin and mobility of hexavalent chromium in North-Eastern Attica, Greece. <i>Applied Geochemistry</i> , 2012, 27, 1170-1178.	3.0	60
24	Speciation of arsenic in Greek travertines: Co-precipitation of arsenate with calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 99-110.	3.9	58
25	Mitigation measures for chromium-VI contaminated groundwater – The role of endophytic bacteria in rhizofiltration. <i>Journal of Hazardous Materials</i> , 2015, 281, 114-120.	12.4	52
26	Removal of Methylated Arsenic in Groundwater with Iron Filings. <i>Environmental Science &amp; Technology</i> , 2005, 39, 7662-7666.	10.0	51
27	An integrated framework for the hydrologic simulation of a complex geomorphological river basin. <i>Journal of Hydrology</i> , 2010, 381, 308-321.	5.4	51
28	A generalized soft water acidification model. <i>Water Resources Research</i> , 1988, 24, 1983-1996.	4.2	50
29	Effects of Municipal Solid Waste Compost on Soil Properties and Vegetables Growth. <i>Compost Science and Utilization</i> , 2014, 22, 116-131.	1.2	50
30	Effects of olive mill wastewater on soil carbon and nitrogen cycling. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2739-2749.	3.6	50
31	Effects of reclaimed wastewater irrigation on olive ( <i>Olea europaea</i> L. cv. ‘Koroneiki’™) trees. <i>Agricultural Water Management</i> , 2015, 160, 33-40.	5.6	50
32	Water framework directive implementation in Greece: Introducing participation in water governance – the Case of the Evrotas River Basin management plan. <i>Environmental Policy and Governance</i> , 2010, 20, 336-349.	3.7	48
33	Characterization and mobility of geogenic chromium in soils and river bed sediments of Asopos basin. <i>Journal of Hazardous Materials</i> , 2015, 281, 12-19.	12.4	48
34	Precipitation Equilibria of the Chromium(VI)/Iron(III) System and Spectroscopic Characterization of the Precipitates. <i>Environmental Science &amp; Technology</i> , 1997, 31, 2898-2902.	10.0	46
35	Benefits of soil carbon: report on the outcomes of an international scientific committee on problems of the environment rapid assessment workshop. <i>Carbon Management</i> , 2014, 5, 185-192.	2.4	46
36	Design of large scale prosuming in Universities: The solar energy vision of the TUC campus. <i>Energy and Buildings</i> , 2017, 141, 39-55.	6.7	45

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37	Arsenic accumulation in irrigated agricultural soils in Northern Greece. <i>Science of the Total Environment</i> , 2011, 409, 4802-4810.	8.0	44
38	Effects of soil type and municipal solid waste compost as soil amendment on <i>Cichorium spinosum</i> (spiny chicory) growth. <i>Scientia Horticulturae</i> , 2015, 195, 195-205.	3.6	44
39	Water and sediment transport modeling of a large temporary river basin in Greece. <i>Science of the Total Environment</i> , 2015, 508, 354-365.	8.0	44
40	Spatial and temporal variations of atmospheric deposition in interior and Coastal Connecticut. <i>Atmospheric Environment</i> , 1996, 30, 3801-3810.	4.1	43
41	Modeling of arsenic immobilization by zero valent iron. <i>European Journal of Soil Biology</i> , 2007, 43, 356-367.	3.2	43
42	MOBILITY AND AQUATIC TOXICITY OF COPPER IN AN URBAN WATERSHED. <i>Journal of the American Water Resources Association</i> , 2003, 39, 325-336.	2.4	39
43	Environmental drivers of the distribution of nitrogen functional genes at a watershed scale. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	38
44	Non-linear response of a mixed land use watershed to nitrogen loading. <i>Agriculture, Ecosystems and Environment</i> , 1998, 67, 251-265.	5.3	37
45	Chromium mobility in freshwater wetlands. <i>Journal of Contaminant Hydrology</i> , 1996, 23, 213-232.	3.3	36
46	Uncertainty of modelled flow regime for flow-ecological assessment in Southern Europe. <i>Science of the Total Environment</i> , 2018, 615, 1028-1047.	8.0	35
47	Evaluation of Remedial Alternatives of Lead from Shooting Range Soil. <i>Environmental Engineering Science</i> , 1999, 16, 403-414.	1.6	33
48	Vertical Distribution and Partitioning of Chromium in a Glaciofluvial Aquifer. <i>Ground Water Monitoring and Remediation</i> , 1994, 14, 150-159.	0.8	31
49	A coupled surface-subsurface hydrologic model to assess groundwater flood risk spatially and temporally. <i>Environmental Modelling and Software</i> , 2019, 114, 129-139.	4.5	31
50	The response of three Mediterranean karst springs to drought and the impact of climate change. <i>Journal of Hydrology</i> , 2020, 591, 125296.	5.4	31
51	Circulation and nutrient modeling of Thermaikos Gulf, Greece. <i>Journal of Marine Systems</i> , 2006, 60, 51-62.	2.1	30
52	Studies of hexavalent chromium attenuation in redox variable soils obtained from a sandy to sub-wetland groundwater environment. <i>Water Research</i> , 2005, 39, 2851-2868.	11.3	29
53	Sediment provenance, soil development, and carbon content in fluvial and manmade terraces at Koiliaris River Critical Zone Observatory. <i>Journal of Soils and Sediments</i> , 2015, 15, 347-364.	3.0	29
54	Management of nutrient emissions of Axios River catchment: Their effect in the coastal zone of Thermaikos Gulf, Greece. <i>Ecological Modelling</i> , 2009, 220, 383-396.	2.5	26

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55	Soil Functions in Earth's Critical Zone. <i>Advances in Agronomy</i> , 2017, 142, 1-27.	5.2	26
56	Methodology for Site-Specific, Mobility-Based Cleanup Standards for Heavy Metals in Glaciated Soils. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2910-2916.	10.0	25
57	Simultaneous photocatalytic oxidation of As(III) and humic acid in aqueous TiO <sub>2</sub> suspensions. <i>Journal of Hazardous Materials</i> , 2009, 169, 376-385.	12.4	25
58	Arsenic mobility and stabilization in topsoils. <i>Water Research</i> , 2009, 43, 1589-1596.	11.3	25
59	Development of a thresholds approach for real-time flash flood prediction in complex geomorphological river basins. <i>Hydrological Processes</i> , 2012, 26, 1478-1494.	2.6	25
60	Environmental drivers of soil microbial community distribution at the Koiliaris Critical Zone Observatory. <i>FEMS Microbiology Ecology</i> , 2014, 90, 139-152.	2.7	25
61	Flood generation and classification of a semi-arid intermittent flow watershed: Evrotas river. <i>International Journal of River Basin Management</i> , 2013, 11, 77-92.	2.7	24
62	SoilTrEC: a global initiative on critical zone research and integration. <i>Environmental Science and Pollution Research</i> , 2014, 21, 3191-3195.	5.3	24
63	Sequential Extraction of Chromium from Contaminated Aquifer Sediments. <i>Ground Water Monitoring and Remediation</i> , 1994, 14, 185-191.	0.8	23
64	Modeling topsoil carbon sequestration in two contrasting crop production to set-aside conversions with RothC " Calibration issues and uncertainty analysis. <i>Agriculture, Ecosystems and Environment</i> , 2013, 165, 190-200.	5.3	22
65	Estimation of the uncertainty of hydrologic predictions in a karstic Mediterranean watershed. <i>Science of the Total Environment</i> , 2020, 717, 137131.	8.0	22
66	Identifying efficient agricultural irrigation strategies in Crete. <i>Science of the Total Environment</i> , 2018, 633, 271-284.	8.0	21
67	River and lake nutrient targets that support ecological status: European scale gap analysis and strategies for the implementation of the Water Framework Directive. <i>Science of the Total Environment</i> , 2022, 813, 151898.	8.0	21
68	Hydromorphology of coastal zone and structure of watershed agro-food system are main determinants of coastal eutrophication. <i>Environmental Research Letters</i> , 2021, 16, 023005.	5.2	20
69	Modelling hydrological characteristics of Mediterranean Temporary Ponds and potential impacts from climate change. <i>Hydrobiologia</i> , 2009, 634, 195-208.	2.0	19
70	Valuation of Soil Ecosystem Services. <i>Advances in Agronomy</i> , 2017, 142, 353-384.	5.2	19
71	Deposition rates for sulfur and nitrogen to a hardwood forest in Northern Connecticut, U.S.A.. <i>Atmospheric Environment</i> , 1994, 28, 1689-1697.	4.1	18
72	Estimation of Nutrient Atmospheric Deposition to Long Island Sound. <i>Water, Air, and Soil Pollution</i> , 1998, 105, 521-538.	2.4	18

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73	Human impacts on soils: Tipping points and knowledge gaps. <i>Applied Geochemistry</i> , 2011, 26, S230-S233.	3.0	18
74	Nitrogen cycling and relationships between ammonia oxidizers and denitrifiers in a clay-loam soil. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5507-5515.	3.6	18
75	Climate change impact on the hydrological budget of a large Mediterranean island. <i>Hydrological Sciences Journal</i> , 2019, 64, 1190-1203.	2.6	18
76	Lake resources at risk to acidic deposition in the eastern United States. <i>Water, Air, and Soil Pollution</i> , 1986, 31, 1091-1101.	2.4	17
77	Soil-washing design methodology for a lead-contaminated sandy-soil. <i>Water Research</i> , 1997, 31, 3045-3056.	11.3	17
78	Evaluation of Batch Leaching Procedures for Estimating Metal Mobility in Glaciated Soils. <i>Ground Water Monitoring and Remediation</i> , 1997, 17, 231-240.	0.8	17
79	Polycyclic Aromatic Hydrocarbons (PAHs) and Heavy Metal Occurrence in Bed Sediments of a Temporary River. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	17
80	Large scale groundwater flow and hexavalent chromium transport modeling under current and future climatic conditions: the case of Asopos River Basin. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5307-5321.	5.3	17
81	Soil Water Characteristics of European SoilTrEC Critical Zone Observatories. <i>Advances in Agronomy</i> , 2017, 142, 29-72.	5.2	17
82	MODELING OF NONPOINT SOURCE POLLUTION OF NITROGEN AT THE WATERSHED SCALE. <i>Journal of the American Water Resources Association</i> , 1998, 34, 359-374.	2.4	16
83	Identifying the controlling mechanism of geogenic origin chromium release in soils. <i>Journal of Hazardous Materials</i> , 2019, 366, 169-176.	12.4	16
84	Development of a statistical tool for the estimation of riverbank erosion probability. <i>Soil</i> , 2016, 2, 1-11.	4.9	15
85	Integrated Critical Zone Model (1D-ICZ). <i>Advances in Agronomy</i> , 2017, 142, 277-314.	5.2	15
86	Impacts of surface and groundwater variability response to future climate change scenarios in a large Mediterranean watershed. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	14
87	Factors Controlling Soil Structure Dynamics and Carbon Sequestration Across Different Climatic and Lithological Conditions. <i>Advances in Agronomy</i> , 2017, , 241-276.	5.2	14
88	Hydrologic response of freshwater watersheds to climatic variability: Model development. <i>Water Resources Research</i> , 1993, 29, 3317-3328.	4.2	13
89	A Direct Substitution Method for Multicomponent Solute Transport in Ground Water. <i>Ground Water</i> , 1997, 35, 67-78.	1.3	13
90	Research questions to facilitate the future development of European long-term ecosystem research infrastructures: A horizon scanning exercise. <i>Journal of Environmental Management</i> , 2019, 250, 109479.	7.8	13

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91	Colloid Mobilization in the Field Using Citrate to Remediate Chromium. <i>Ground Water</i> , 2001, 39, 895-903.	1.3	12
92	A reach-scale biogeochemical model for temporary rivers. <i>Hydrological Processes</i> , 2009, 23, 272-283.	2.6	12
93	Natural attenuation of nutrients in a mediterranean drainage canal. <i>Journal of Environmental Monitoring</i> , 2010, 12, 164-171.	2.1	12
94	Dissolved organic nitrogen as an indicator of livestock impacts on soil biochemical quality. <i>Applied Geochemistry</i> , 2011, 26, S340-S343.	3.0	11
95	Nature-based solutions: business. <i>Nature</i> , 2017, 543, 315-315.	27.8	11
96	Assessment of SWAT spatial and temporal transferability for a high-altitude glacierized catchment. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3219-3232.	4.9	11
97	Vision-Based Decision-Making Methodology for Riparian Forest Restoration and Flood Protection Using Nature-Based Solutions. <i>Sustainability</i> , 2020, 12, 3305.	3.2	11
98	Soil Organic Matter Dynamics and Structure. <i>Sustainable Agriculture Reviews</i> , 2013, , 175-199.	1.1	11
99	MODELING FRAMEWORK FOR MANAGING COPPER RUNOFF IN URBAN WATERSHEDS. <i>Journal of the American Water Resources Association</i> , 2003, 39, 337-345.	2.4	10
100	Identification of hydrologic and geochemical pathways using high frequency sampling, REE aqueous sampling and soil characterization at Koiliaris Critical Zone Observatory, Crete. <i>Applied Geochemistry</i> , 2011, 26, S101-S104.	3.0	10
101	Nutrient mitigation in a temporary river basin. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 2243-2257.	2.7	10
102	Modeling Soil Aggregation at the Early Pedogenesis Stage From the Parent Material of a Mollisol Under Different Agricultural Practices. <i>Advances in Agronomy</i> , 2017, , 181-214.	5.2	10
103	Modeling the Impact of Carbon Amendments on Soil Ecosystem Functions Using the 1D-ICZ Model. <i>Advances in Agronomy</i> , 2017, 142, 315-352.	5.2	10
104	Assessing hydro-morphological changes in Mediterranean stream using curvilinear grid modeling approach - climate change impacts. <i>Earth Science Informatics</i> , 2018, 11, 205-216.	3.2	10
105	Innovative methodology for the prioritization of the Program of Measures for integrated water resources management of the Region of Crete, Greece. <i>Science of the Total Environment</i> , 2019, 672, 61-70.	8.0	10
106	Comparative study of wild and cultivated populations of <i>Cichorium spinosum</i> : The influence of soil and organic matter addition. <i>Scientia Horticulturae</i> , 2020, 261, 108942.	3.6	10
107	Seasonal Variation of Nutrients and Heavy Metals in <i>Phragmites australis</i> of Lake Trichonis, Greece. <i>Lake and Reservoir Management</i> , 1996, 12, 364-370.	1.3	9
108	Assessing the Impact of Climate Change on Sediment Loads in a Large Mediterranean Watershed. <i>Soil Science</i> , 2016, 181, 306-314.	0.9	9

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109	Tools for Sustainable Soil Management: Soil Ecosystem Services, EROI and Economic Analysis. <i>Ecological Economics</i> , 2019, 157, 109-119.	5.7	9
110	Efficient sequential sampling strategies for environmental monitoring. <i>Water Resources Research</i> , 1992, 28, 2245-2256.	4.2	8
111	Heavy Metal Mobility in Biosolids-Amended Glaciated Soils. <i>Water Environment Research</i> , 2001, 73, 80-86.	2.7	8
112	Evaluation of the potential for the natural attenuation of hexavalent chromium within a sub-wetland ground water. <i>Journal of Environmental Management</i> , 2008, 88, 1513-1524.	7.8	8
113	Hydro-geochemical Aspects of Mediterranean Temporary Ponds in Western Crete. <i>Journal of Environmental Quality</i> , 2008, 37, 164-173.	2.0	8
114	Hydraulic and Sediment Transport Simulation of Koiliaris River Using the MIKE 21C Model. <i>Procedia Engineering</i> , 2016, 162, 463-470.	1.2	8
115	Quantifying the Incipient Development of Soil Structure and Functions Within a Glacial Forefield Chronosequence. <i>Advances in Agronomy</i> , 2017, , 215-239.	5.2	8
116	Capturing hotspots of fresh submarine groundwater discharge using a coupled surface-subsurface model. <i>Journal of Hydrology</i> , 2021, 598, 126356.	5.4	8
117	Effects of climatic variability on the hydrologic response of a freshwater watershed. <i>Aquatic Sciences</i> , 1994, 56, 161-178.	1.5	7
118	Nitrogen Mobility in Biosolid-Amended Glaciated Soil. <i>Water Environment Research</i> , 1999, 71, 368-376.	2.7	7
119	Bromide transport before, during, and after colloid mobilization in push-pull tests and the implications for changes in aquifer properties. <i>Water Resources Research</i> , 2003, 39, .	4.2	7
120	Shifts in soil structure and soil organic matter in a chronosequence of set-aside fields. <i>Soil and Tillage Research</i> , 2017, 174, 113-119.	5.6	7
121	Sorption studies of mixed chromium and chlorinated ethenes at the field and laboratory scales. <i>Journal of Environmental Management</i> , 2005, 75, 77-88.	7.8	6
122	Assessing the impact of geogenic chromium uptake by carrots ( <i>Daucus carota</i> ) grown in Asopos river basin. <i>Environmental Research</i> , 2017, 152, 96-101.	7.5	6
123	Lake acidification studies: The role of input uncertainty in long-term predictions. <i>Water Resources Research</i> , 1989, 25, 1511-1518.	4.2	5
124	Assessment of episodic acidification in Sierra Nevada, California. <i>Aquatic Sciences</i> , 1991, 53, 330-345.	1.5	4
125	Attenuation of a Mixed Chromium and Chlorinated Etjeme Ground Wate Plume in Estuarine Influenced Glaciated Sediments. <i>Ground Water Monitoring and Remediation</i> , 2003, 23, 74-84.	0.8	4
126	A Multi-Disciplinary Approach to Understand Hydrologic and Geochemical Processes at Koiliaris Critical Zone Observatory. <i>Water (Switzerland)</i> , 2020, 12, 2474.	2.7	4



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127	Crop Litter Has a Strong Effect on Soil Organic Matter Sequestration in Semi-Arid Environments. Sustainability, 2021, 13, 13278.	3.2	4
128	Inhibition of Nickel Precipitation by Gluconate. II: Kinetic Modeling. Journal of Environmental Engineering, ASCE, 1998, 124, 685-689.	1.4	3
129	Inhibition of Nickel Precipitation by Gluconate. I: Kinetic Studies and Spectroscopic Analyses. Journal of Environmental Engineering, ASCE, 1998, 124, 677-684.	1.4	3
130	River flow and sediment transport simulation based on a curvilinear and rectilinear grid modelling approach – a comparison study. Water Science and Technology: Water Supply, 2017, 17, 1325-1334.	2.1	3
131	Removal of Arsenic from Bangladesh Groundwater with Zero-Valent Iron. ACS Symposium Series, 2005, , 361-371.	0.5	2
132	Combined hydrological, rainfall-runoff, hydraulic and sediment transport modeling in Upper Acheloos River catchment. Desalination and Water Treatment, 2016, 57, 11540-11549.	1.0	2
133	Use of X-Ray Fluorescence Spectrometry to Detect Residual Chlorine in Road Salt Deicer Samples. Applied Spectroscopy, 2001, 55, 1568-1571.	2.2	1
134	Color characteristics for the evaluation of suspended sediments. , 2015, , .		1
135	Removal of Arsenic from Groundwater - Mechanisms, Kinetics, Field/Pilot and Modeling Studies. , 2006, , 151-171.		0
136	Bridging fate, exposure, and ecotoxicity of contaminants. Environmental Research, 2008, 106, 287-288.	7.5	0
137	Nutrient dynamics management based on GIS modeling tools. Proceedings of SPIE, 2013, , .	0.8	0