

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
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139
all docs

139
docs citations

139
times ranked

5381
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Capturing hotspots of fresh submarine groundwater discharge using a coupled surface–subsurface model. <i>Journal of Hydrology</i> , 2021, 598, 126356.	5.4	8
4	Crop Litter Has a Strong Effect on Soil Organic Matter Sequestration in Semi-Arid Environments. <i>Sustainability</i> , 2021, 13, 13278.	3.2	4
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Soil Functions: Connecting Earth's Critical Zone. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 333-359.	11.0	78
13	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
14	Climate change impact on the hydrological budget of a large Mediterranean island. <i>Hydrological Sciences Journal</i> , 2019, 64, 1190-1203.	2.6	18
15	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
16	Identifying the controlling mechanism of geogenic origin chromium release in soils. <i>Journal of Hazardous Materials</i> , 2019, 366, 169-176.	12.4	16
17	Tools for Sustainable Soil Management: Soil Ecosystem Services, EROI and Economic Analysis. <i>Ecological Economics</i> , 2019, 157, 109-119.	5.7	9
18	Identifying efficient agricultural irrigation strategies in Crete. <i>Science of the Total Environment</i> , 2018, 633, 271-284.	8.0	21

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19	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
20	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
21	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
22	Soil Water Characteristics of European SoilTrEC Critical Zone Observatories. <i>Advances in Agronomy</i> , 2017, 142, 29-72.	5.2	17
23	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
24	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
25	River flow and sediment transport simulation based on a curvilinear and rectilinear grid modelling approach – a comparison study. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 1325-1334.	2.1	3
26	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
27	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
28	Integrated Critical Zone Model (1D-ICZ). <i>Advances in Agronomy</i> , 2017, 142, 277-314.	5.2	15
29	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
30	Valuation of Soil Ecosystem Services. <i>Advances in Agronomy</i> , 2017, 142, 353-384.	5.2	19
31	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
32	Soil Functions in Earth's Critical Zone. <i>Advances in Agronomy</i> , 2017, 142, 1-27.	5.2	26
33	Nature-based solutions: business. <i>Nature</i> , 2017, 543, 315-315.	27.8	11
34	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
35	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
36	Development of a statistical tool for the estimation of riverbank erosion probability. <i>Soil</i> , 2016, 2, 1-11.	4.9	15

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37	Hydraulic and Sediment Transport Simulation of Koiliaris River Using the MIKE 21C Model. <i>Procedia Engineering</i> , 2016, 162, 463-470.	1.2	8
38	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
39	Combined hydrological, rainfall-runoff, hydraulic and sediment transport modeling in Upper Acheloos River catchment. <i>Desalination and Water Treatment</i> , 2016, 57, 11540-11549.	1.0	2
40	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
41	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
42	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
43	Color characteristics for the evaluation of suspended sediments. , 2015, , .		1
44	Environmental drivers of the distribution of nitrogen functional genes at a watershed scale. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	38
45	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
46	Linkages between aggregate formation, porosity and soil chemical properties. <i>Geoderma</i> , 2015, 247-248, 24-37.	5.1	215
47	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
48	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
49	Soil carbon, multiple benefits. <i>Environmental Development</i> , 2015, 13, 33-38.	4.1	75
50	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
51	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
52	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
53	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
54	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

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55	Benefits of soil carbon: report on the outcomes of an international scientific committee on problems of the environment rapid assessment workshop. Carbon Management, 2014, 5, 185-192.	2.4	46
56	Nutrient mitigation in a temporary river basin. Environmental Monitoring and Assessment, 2014, 186, 2243-2257.	2.7	10
57	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. River Research and Applications, 2014, 30, 1318-1334.	1.7	74
58	SoilTrEC: a global initiative on critical zone research and integration. Environmental Science and Pollution Research, 2014, 21, 3191-3195.	5.3	24
59	Effects of olive mill wastewater on soil carbon and nitrogen cycling. Applied Microbiology and Biotechnology, 2014, 98, 2739-2749.	3.6	50
60	Environmental drivers of soil microbial community distribution at the Koiliaris Critical Zone Observatory. FEMS Microbiology Ecology, 2014, 90, 139-152.	2.7	25
61	Nitrogen cycling and relationships between ammonia oxidizers and denitrifiers in a clay-loam soil. Applied Microbiology and Biotechnology, 2013, 97, 5507-5515.	3.6	18
62	Flood generation and classification of a semi-arid intermittent flow watershed: Evrotas river. International Journal of River Basin Management, 2013, 11, 77-92.	2.7	24
63	Modeling topsoil carbon sequestration in two contrasting crop production to set-aside conversions with RothC " Calibration issues and uncertainty analysis. Agriculture, Ecosystems and Environment, 2013, 165, 190-200.	5.3	22
64	Speciation of arsenic in Greek travertines: Co-precipitation of arsenate with calcite. Geochimica Et Cosmochimica Acta, 2013, 106, 99-110.	3.9	58
65	Hydrologic and geochemical modeling of a karstic Mediterranean watershed. Journal of Hydrology, 2013, 477, 129-138.	5.4	63
66	Nutrient dynamics management based on GIS modeling tools. Proceedings of SPIE, 2013, , .	0.8	0
67	Towards sustainable management of Mediterranean river basins: policy recommendations on management aspects of temporary streams. Water Policy, 2013, 15, 830-849.	1.5	61
68	Soil Organic Matter Dynamics and Structure. Sustainable Agriculture Reviews, 2013, , 175-199.	1.1	11
69	Origin and mobility of hexavalent chromium in North-Eastern Attica, Greece. Applied Geochemistry, 2012, 27, 1170-1178.	3.0	60
70	Soil processes and functions across an international network of Critical Zone Observatories: Introduction to experimental methods and initial results. Comptes Rendus - Geoscience, 2012, 344, 758-772.	1.2	68
71	A novel approach to analysing the regimes of temporary streams in relation to their controls on the composition and structure of aquatic biota. Hydrology and Earth System Sciences, 2012, 16, 3165-3182.	4.9	101
72	Development of a thresholds approach for real-time flash flood prediction in complex geomorphological river basins. Hydrological Processes, 2012, 26, 1478-1494.	2.6	25

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73	Identification of hydrologic and geochemical pathways using high frequency sampling, REE aqueous sampling and soil characterization at Koiliaris Critical Zone Observatory, Crete. Applied Geochemistry, 2011, 26, S101-S104.	3.0	10
74	Dissolved organic nitrogen as an indicator of livestock impacts on soil biochemical quality. Applied Geochemistry, 2011, 26, S340-S343.	3.0	11
75	Human impacts on soils: Tipping points and knowledge gaps. Applied Geochemistry, 2011, 26, S230-S233.	3.0	18
76	Olive mill wastewater irrigation of maize: Impacts on soil and groundwater. Agricultural Water Management, 2011, 98, 1125-1132.	5.6	71
77	Arsenic accumulation in irrigated agricultural soils in Northern Greece. Science of the Total Environment, 2011, 409, 4802-4810.	8.0	44
78	Soil Processes and Functions in Critical Zone Observatories: Hypotheses and Experimental Design. Vadose Zone Journal, 2011, 10, 974-987.	2.2	81
79	An integrated framework for the hydrologic simulation of a complex geomorphological river basin. Journal of Hydrology, 2010, 381, 308-321.	5.4	51
80	High-frequency monitoring for the identification of hydrological and bio-geochemical processes in a Mediterranean river basin. Journal of Hydrology, 2010, 389, 127-136.	5.4	63
81	Water framework directive implementation in Greece: Introducing participation in water governance – the Case of the Evrotas River Basin management plan. Environmental Policy and Governance, 2010, 20, 336-349.	3.7	48
82	Natural attenuation of nutrients in a mediterranean drainage canal. Journal of Environmental Monitoring, 2010, 12, 164-171.	2.1	12
83	Management of nutrient emissions of Axios River catchment: Their effect in the coastal zone of Thermaikos Gulf, Greece. Ecological Modelling, 2009, 220, 383-396.	2.5	26
84	A reach-scale biogeochemical model for temporary rivers. Hydrological Processes, 2009, 23, 272-283.	2.6	12
85	Modelling hydrological characteristics of Mediterranean Temporary Ponds and potential impacts from climate change. Hydrobiologia, 2009, 634, 195-208.	2.0	19
86	Simultaneous photocatalytic oxidation of As(III) and humic acid in aqueous TiO ₂ suspensions. Journal of Hazardous Materials, 2009, 169, 376-385.	12.4	25
87	Arsenic mobility and stabilization in topsoils. Water Research, 2009, 43, 1589-1596.	11.3	25
88	Evaluation of the potential for the natural attenuation of hexavalent chromium within a sub-wetland ground water. Journal of Environmental Management, 2008, 88, 1513-1524.	7.8	8
89	Bridging fate, exposure, and ecotoxicity of contaminants. Environmental Research, 2008, 106, 287-288.	7.5	0
90	Hydro-geochemical Aspects of Mediterranean Temporary Ponds in Western Crete. Journal of Environmental Quality, 2008, 37, 164-173.	2.0	8

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91	Modeling of arsenic immobilization by zero valent iron. European Journal of Soil Biology, 2007, 43, 356-367.	3.2	43
92	A generalized framework for modeling the hydrologic and biogeochemical response of a Mediterranean temporary river basin. Journal of Hydrology, 2007, 346, 112-121.	5.4	73
93	In-Stream Biogeochemical Processes of a Temporary River. Environmental Science & Technology, 2007, 41, 1225-1231.	10.0	62
94	Arsenic removal from geothermal waters with zero-valent iron—Effect of temperature, phosphate and nitrate. Water Research, 2006, 40, 2375-2386.	11.3	106
95	Removal of Arsenic from Groundwater - Mechanisms, Kinetics, Field/Pilot and Modeling Studies. , 2006, , 151-171.		0
96	Circulation and nutrient modeling of Thermaikos Gulf, Greece. Journal of Marine Systems, 2006, 60, 51-62.	2.1	30
97	Removal of Arsenic from Bangladesh Groundwater with Zero-Valent Iron. ACS Symposium Series, 2005, , 361-371.	0.5	2
98	Sorption studies of mixed chromium and chlorinated ethenes at the field and laboratory scales. Journal of Environmental Management, 2005, 75, 77-88.	7.8	6
99	An integrated approach to watershed management within the DPSIR framework: Axios River catchment and Thermaikos Gulf. Regional Environmental Change, 2005, 5, 138-160.	2.9	82
100	Removal of Methylated Arsenic in Groundwater with Iron Filings. Environmental Science & Technology, 2005, 39, 7662-7666.	10.0	51
101	Studies of hexavalent chromium attenuation in redox variable soils obtained from a sandy to sub-wetland groundwater environment. Water Research, 2005, 39, 2851-2868.	11.3	29
102	Arsenic mobility in contaminated lake sediments. Environmental Pollution, 2004, 129, 479-487.	7.5	68
103	Attenuation of a Mixed Chromium and Chlorinated Etjeme Ground Wate Plume in Estuarine Influenced Glaciated Sediments. Ground Water Monitoring and Remediation, 2003, 23, 74-84.	0.8	4
104	MOBILITY AND AQUATIC TOXICITY OF COPPER IN AN URBAN WATERSHED. Journal of the American Water Resources Association, 2003, 39, 325-336.	2.4	39
105	MODELING FRAMEWORK FOR MANAGING COPPER RUNOFF IN URBAN WATERSHEDS. Journal of the American Water Resources Association, 2003, 39, 337-345.	2.4	10
106	Bromide transport before, during, and after colloid mobilization in push-pull tests and the implications for changes in aquifer properties. Water Resources Research, 2003, 39, .	4.2	7
107	Water and sediment quality assessment of the Axios River and its coastal environment. Continental Shelf Research, 2003, 23, 1929-1944.	1.8	64
108	Arsenic removal by zero-valent iron: field, laboratory and modeling studies. Water Research, 2003, 37, 1417-1425.	11.3	178

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109	Use of X-Ray Fluorescence Spectrometry to Detect Residual Chlorine in Road Salt Deicer Samples. Applied Spectroscopy, 2001, 55, 1568-1571.	2.2	1
110	Heavy Metal Mobility in Biosolids-Amended Glaciated Soils. Water Environment Research, 2001, 73, 80-86.	2.7	8
111	Colloid Mobilization in the Field Using Citrate to Remediate Chromium. Ground Water, 2001, 39, 895-903.	1.3	12
112	Inorganic Arsenic Removal by Zero-Valent Iron. Environmental Engineering Science, 2000, 17, 29-39.	1.6	240
113	Evaluation of Remedial Alternatives of Lead from Shooting Range Soil. Environmental Engineering Science, 1999, 16, 403-414.	1.6	33
114	Methodology for Site-Specific, Mobility-Based Cleanup Standards for Heavy Metals in Glaciated Soils. Environmental Science & Technology, 1999, 33, 2910-2916.	10.0	25
115	Nitrogen Mobility in Biosolid-Amended Glaciated Soil. Water Environment Research, 1999, 71, 368-376.	2.7	7
116	Estimation of Nutrient Atmospheric Deposition to Long Island Sound. Water, Air, and Soil Pollution, 1998, 105, 521-538.	2.4	18
117	MODELING OF NONPOINT SOURCE POLLUTION OF NITROGEN AT THE WATERSHED SCALE. Journal of the American Water Resources Association, 1998, 34, 359-374.	2.4	16
118	Non-linear response of a mixed land use watershed to nitrogen loading. Agriculture, Ecosystems and Environment, 1998, 67, 251-265.	5.3	37
119	Inhibition of Nickel Precipitation by Gluconate. II: Kinetic Modeling. Journal of Environmental Engineering, ASCE, 1998, 124, 685-689.	1.4	3
120	Inhibition of Nickel Precipitation by Gluconate. I: Kinetic Studies and Spectroscopic Analyses. Journal of Environmental Engineering, ASCE, 1998, 124, 677-684.	1.4	3
121	Soil-washing design methodology for a lead-contaminated sandy-soil. Water Research, 1997, 31, 3045-3056.	11.3	17
122	Precipitation Equilibria of the Chromium(VI)/Iron(III) System and Spectroscopic Characterization of the Precipitates. Environmental Science & Technology, 1997, 31, 2898-2902.	10.0	46
123	A Direct Substitution Method for Multicomponent Solute Transport in Ground Water. Ground Water, 1997, 35, 67-78.	1.3	13
124	Evaluation of Batch Leaching Procedures for Estimating Metal Mobility in Glaciated Soils. Ground Water Monitoring and Remediation, 1997, 17, 231-240.	0.8	17
125	Spatial and temporal variations of atmospheric deposition in interior and Coastal Connecticut. Atmospheric Environment, 1996, 30, 3801-3810.	4.1	43
126	Chromium mobility in freshwater wetlands. Journal of Contaminant Hydrology, 1996, 23, 213-232.	3.3	36

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127	Seasonal Variation of Nutrients and Heavy Metals in Phragmites australis of Lake Trichonis, Greece. Lake and Reservoir Management, 1996, 12, 364-370.	1.3	9
128	Effects of climatic variability on the hydrologic response of a freshwater watershed. Aquatic Sciences, 1994, 56, 161-178.	1.5	7
129	Sequential Extraction of Chromium from Contaminated Aquifer Sediments. Ground Water Monitoring and Remediation, 1994, 14, 185-191.	0.8	23
130	Vertical Distribution and Partitioning of Chromium in a Glaciofluvial Aquifer. Ground Water Monitoring and Remediation, 1994, 14, 150-159.	0.8	31
131	Deposition rates for sulfur and nitrogen to a hardwood forest in Northern Connecticut, U.S.A.. Atmospheric Environment, 1994, 28, 1689-1697.	4.1	18
132	Hydrologic response of freshwater watersheds to climatic variability: Model development. Water Resources Research, 1993, 29, 3317-3328.	4.2	13
133	Efficient sequential sampling strategies for environmental monitoring. Water Resources Research, 1992, 28, 2245-2256.	4.2	8
134	Assessment of episodic acidification in Sierra Nevada, California. Aquatic Sciences, 1991, 53, 330-345.	1.5	4
135	Lake acidification studies: The role of input uncertainty in long-term predictions. Water Resources Research, 1989, 25, 1511-1518.	4.2	5
136	A generalized soft water acidification model. Water Resources Research, 1988, 24, 1983-1996.	4.2	50
137	Lake resources at risk to acidic deposition in the eastern United States. Water, Air, and Soil Pollution, 1986, 31, 1091-1101.	2.4	17