Nikolla P Qafoku

List of Publications by Year in descending order

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		126907	144013
100	3,761	33	57
papers	citations	h-index	g-index
113	113	113	3646
113	113	113	3040
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Editorial: Searching for Solutions to Soil Pollution: Underlying Soil-Contaminant Interactions and Development of Innovative Land Remediation and Reclamation Techniques. Frontiers in Environmental Science, 2022, 9, .	3.3	2
2	A Review of Bismuth(III)-Based Materials for Remediation of Contaminated Sites. ACS Earth and Space Chemistry, 2022, 6, 883-908.	2.7	6
3	Fungal hyphae develop where titanomagnetite inclusions reach the surface of basalt grains. Scientific Reports, 2022, 12, 3407.	3.3	3
4	SSSAJ 2021 Publisher's Report. Soil Science Society of America Journal, 2022, 86, 868-878.	2.2	0
5	Silicon concentration and pH controls over competitive or simultaneous incorporation of iodate and chromate into calcium carbonate phases. Applied Geochemistry, 2021, 128, 104941.	3.0	2
6	Simultaneous immobilization of aqueous co-contaminants using a bismuth layered material. Journal of Environmental Radioactivity, 2021, 237, 106711.	1.7	5
7	lodine immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132820.	8.0	59
8	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132849.	8.0	19
9	In situ precipitation of hydrous ferric oxide (HFO) for remediation of subsurface iodine contamination. Journal of Contaminant Hydrology, 2020, 235, 103705.	3.3	6
10	lodate interactions with calcite: implications for natural attenuation. Environmental Earth Sciences, 2020, 79, 1.	2.7	5
11	Phyllosilicate mineral dissolution upon alkaline treatment under aerobic and anaerobic conditions. Applied Clay Science, 2020, 189, 105520.	5.2	10
12	Evaluation of gaseous substrates for microbial immobilization of contaminant mixtures in unsaturated subsurface sediments. Journal of Environmental Radioactivity, 2020, 214-215, 106183.	1.7	1
13	Strong mineralogic control of soil organic matter composition in response to nutrient addition across diverse grassland sites. Science of the Total Environment, 2020, 736, 137839.	8.0	29
14	A review of the behavior of radioiodine in the subsurface at two DOE sites. Science of the Total Environment, 2019, 691, 466-475.	8.0	28
15	Impact of iron and manganese nano-metal-oxides on contaminant interaction and fortification potential in agricultural systems – a review. Environmental Chemistry, 2019, 16, 377.	1.5	17
16	Current Understanding of the Use of Alkaline Extractions of Soils to Investigate Soil Organic Matter and Environmental Processes. Journal of Environmental Quality, 2019, 48, 1561-1564.	2.0	13
17	Time-Dependent Iodate and Iodide Adsorption to Fe Oxides. ACS Earth and Space Chemistry, 2019, 3, 2415-2420.	2.7	23
18	Chromate Effect on Iodate Incorporation into Calcite. ACS Earth and Space Chemistry, 2019, 3, 1624-1630.	2.7	16

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19	Persistence of chromate in vadose zone and aquifer sediments in Hanford, Washington. Science of the Total Environment, 2019, 676, 482-492.	8.0	4
20	Natural, incidental, and engineered nanomaterials and their impacts on the Earth system. Science, 2019, 363, .	12.6	479
21	Microbial Methylation of Iodide in Unconfined Aquifer Sediments at the Hanford Site, USA. Frontiers in Microbiology, 2019, 10, 2460.	3.5	5
22	Charge fingerprint in relation to mineralogical composition of Quaternary volcanic ash along a climatic gradient on Java Island, Indonesia. Catena, 2019, 172, 547-557.	5.0	5
23	Silver-functionalized silica aerogels and their application in the removal of iodine from aqueous environments. Journal of Hazardous Materials, 2019, 379, 119364.	12.4	64
24	Element mobilization and immobilization from carbonate rocks between CO2 storage reservoirs and the overlying aquifers during a potential CO2 leakage. Chemosphere, 2018, 197, 399-410.	8.2	16
25	Technetium and iodine aqueous species immobilization and transformations in the presence of strong reductants and calcite-forming solutions: Remedial action implications. Science of the Total Environment, 2018, 636, 588-595.	8.0	17
26	Incorporation Modes of Iodate in Calcite. Environmental Science & Environmenta	10.0	31
27	Getters for improved technetium containment in cementitious waste forms. Journal of Hazardous Materials, 2018, 341, 238-247.	12.4	25
28	Characterizing Technetium in Subsurface Sediments for Contaminant Remediation. ACS Earth and Space Chemistry, 2018, 2, 1145-1160.	2.7	8
29	Technetium Stabilization in Low-Solubility Sulfide Phases: A Review. ACS Earth and Space Chemistry, 2018, 2, 532-547.	2.7	36
30	Review of the impacts of leaking CO2 gas and brine on groundwater quality. Earth-Science Reviews, 2017, 169, 69-84.	9.1	42
31	Direct Visualization of Aggregate Morphology and Dynamics in a Model Soil Organic–Mineral System. Environmental Science and Technology Letters, 2017, 4, 186-191.	8.7	18
32	Efficacy of acetate-amended biostimulation for uranium sequestration: Combined analysis of sediment/groundwater geochemistry and bacterial community structure. Applied Geochemistry, 2017, 78, 172-185.	3.0	18
33	Risk of Geologic Sequestration of CO2 to Groundwater Aquifers: Current Knowledge and Remaining Questions. Energy Procedia, 2017, 114, 3052-3059.	1.8	7
34	Developing a molecular picture of soil organic matter–mineral interactions by quantifying organo–mineral binding. Nature Communications, 2017, 8, 396.	12.8	150
35	Silver-based getters for ¹²⁹ I removal from low-activity waste. Radiochimica Acta, 2016, 104, 905-913.	1.2	21
36	Evaluating impacts of CO2 intrusion into an unconsolidated aquifer: I. Experimental data. International Journal of Greenhouse Gas Control, 2016, 44, 323-333.	4.6	31

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37	Methanogenesis-induced pH–Eh shifts drives aqueous metal(loid) mobility in sulfide mineral systems under CO2 enriched conditions. Geochimica Et Cosmochimica Acta, 2016, 173, 232-245.	3.9	6
38	The function of Sn(II)-apatite as a Tc immobilizing agent. Journal of Nuclear Materials, 2016, 480, 393-402.	2.7	18
39	Protein–Mineral Interactions: Molecular Dynamics Simulations Capture Importance of Variations in Mineral Surface Composition and Structure. Langmuir, 2016, 32, 6194-6209.	3.5	31
40	Evaluating impacts of CO2 intrusion into an unconsolidated aquifer: II. Modeling results. International Journal of Greenhouse Gas Control, 2016, 44, 300-309.	4.6	23
41	Removal of TcO ₄ [–] from Representative Nuclear Waste Streams with Layered Potassium Metal Sulfide Materials. Chemistry of Materials, 2016, 28, 3976-3983.	6.7	56
42	Geochemical impacts of leaking CO2 from subsurface storage reservoirs to an unconfined oxidizing carbonate aquifer. International Journal of Greenhouse Gas Control, 2016, 44, 310-322.	4.6	16
43	Evidence of technetium and iodine release from a sodalite-bearing ceramic waste form. Applied Geochemistry, 2016, 66, 210-218.	3.0	11
44	Mineral assemblage transformation of a metakaolin-based waste form after geopolymer encapsulation. Journal of Nuclear Materials, 2016, 473, 320-332.	2.7	13
45	Modeling the impact of carbon dioxide leakage into an unconfined, oxidizing carbonate aquifer. International Journal of Greenhouse Gas Control, 2016, 44, 290-299.	4.6	56
46	Adsorption Properties of Subtropical and Tropical Variable Charge Soils: Implications from Climate Change and Biochar Amendment. Advances in Agronomy, 2016, 135, 1-58.	5.2	54
47	Technetium Getters to Improve Cast Stone Performance. Materials Research Society Symposia Proceedings, 2015, 1744, 43-52.	0.1	1
48	Glass Corrosion in the Presence of Iron-Bearing Materials and Potential Corrosion Suppressors. Materials Research Society Symposia Proceedings, 2015, 1744, 139-144.	0.1	7
49	Uranium fate in Hanford sediment altered by simulated acid waste solutions. Applied Geochemistry, 2015, 63, 1-9.	3.0	9
50	Evaluating impacts of CO2 and CH4 gas intrusion into an unconsolidated aquifer: fate of As and Cd. Frontiers in Environmental Science, 2015, 3, .	3.3	4
51	Climate-Change Effects on Soils: Accelerated Weathering, Soil Carbon, and Elemental Cycling. Advances in Agronomy, 2015, 131, 111-172.	5.2	34
52	Coupled Geochemical Impacts of Leaking CO ₂ and Contaminants from Subsurface Storage Reservoirs on Groundwater Quality. Environmental Science & Eamp; Technology, 2015, 49, 8202-8209.	10.0	34
53	Remediation of Technetium in Vadose Zone Sediments Using Ammonia and Hydrogen Sulfide Gases. Vadose Zone Journal, 2015, 14, 1-12.	2.2	8
54	Influence of Carbon and Microbial Community Priming on the Attenuation of Uranium in a Contaminated Floodplain Aquifer. Ground Water, 2015, 53, 600-613.	1.3	7

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55	Performance of the Fluidized Bed Steam Reforming product under hydraulically unsaturated conditions. Journal of Environmental Radioactivity, 2014, 131, 119-128.	1.7	10
56	Geochemical and mineralogical investigation of uranium in multi-element contaminated, organic-rich subsurface sediment. Applied Geochemistry, 2014, 42, 77-85.	3.0	40
57	Cr(OH) ₃ (s) Oxidation Induced by Surface Catalyzed Mn(II) Oxidation. Environmental Science &	10.0	74
58	Evaluating Impacts of CO2 Gas Intrusion Into a Confined Sandstone aquifer: Experimental Results. Energy Procedia, 2014, 63, 3275-3284.	1.8	7
59	Influence of acidic and alkaline waste solution properties on uranium migration in subsurface sediments. Journal of Contaminant Hydrology, 2013, 151, 155-175.	3.3	38
60	Response to Comment on "Geochemical Implications of Gas Leakage associated with Geologic CO2 Storage—A Qualitative Review― Environmental Science & Environmental Science & 1, 47, 4951-4952.	10.0	1
61	Abiotic Reductive Immobilization of U(VI) by Biogenic Mackinawite. Environmental Science & Emp; Technology, 2013, 47, 2361-2369.	10.0	100
62	Geochemical Implications of Gas Leakage associated with Geologic CO ₂ Storageâ€"A Qualitative Review. Environmental Science & Environmental	10.0	146
63	Geochemical, mineralogical and microbiological characteristics of sediment from a naturally reduced zone in a uranium-contaminated aquifer. Applied Geochemistry, 2012, 27, 1499-1511.	3.0	123
64	Iron oxide waste form for stabilizing 99Tc. Journal of Nuclear Materials, 2012, 429, 201-209.	2.7	46
65	Geochemical and Geophysical Changes during Ammonia Gas Treatment of Vadose Zone Sediments for Uranium Remediation. Vadose Zone Journal, 2012, 11, vzj2011.0158.	2.2	14
66	Immobilization of 99-Technetium (VII) by Fe(II)-Goethite and Limited Reoxidation. Environmental Science & Eamp; Technology, 2011, 45, 4904-4913.	10.0	124
67	Effect of extent of natural subsurface bioreduction on Fe-mineralogy of subsurface sediments. Journal of Physics: Conference Series, 2010, 217, 012047.	0.4	5
68	Chromium transport in an acidic waste contaminated subsurface medium: The role of reduction. Chemosphere, 2010, 81, 1492-1500.	8.2	23
69	Relative Humidity Controls Ammonia Loss from Urea Applied to Loblolly Pine. Soil Science Society of America Journal, 2010, 74, 543-549.	2.2	27
70	Terrestrial Nanoparticles and Their Controls on Soil-/Geo-Processes and Reactions. Advances in Agronomy, 2010, 107, 33-91.	5.2	55
71	The biogeochemistry of technetium: A review of the behavior of an artificial element in the natural environment. Numerische Mathematik, 2010, 310, 721-752.	1.4	142
72	Chemical weathering of new pyroclastic deposits from Mt. Merapi (Java), Indonesia. Journal of Mountain Science, 2009, 6, 240-254.	2.0	12

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73	Pathways of Aqueous Cr(VI) Attenuation in a Slightly Alkaline Oxic Subsurface. Environmental Science & Environmental &	10.0	23
74	Uranium in Framboidal Pyrite from a Naturally Bioreduced Alluvial Sediment. Environmental Science & En	10.0	85
75	Physical control on CCl4 and CHCl3 desorption from artificially contaminated and aged sediments with supercritical carbon dioxide. Chemosphere, 2009, 74, 494-500.	8.2	3
76	Foam Delivery of Calcium Polysulfide to the Vadose Zone for Chromium(VI) Immobilization: A Laboratory Evaluation. Vadose Zone Journal, 2009, 8, 976-985.	2.2	41
77	Interactions of aqueous U(VI) with soil minerals in slightly alkaline natural systems. Reviews in Environmental Science and Biotechnology, 2008, 7, 355-380.	8.1	34
78	Scaleâ€dependent desorption of uranium from contaminated subsurface sediments. Water Resources Research, 2008, 44, .	4.2	123
79	Mineralogy of a perudic Andosol in central Java, Indonesia. Geoderma, 2008, 144, 379-386.	5.1	21
80	Advective Removal of Intraparticle Uranium from Contaminated Vadose Zone Sediments, Hanford, U.S Environmental Science & Env	10.0	30
81	Advective Desorption of Uranium(VI) from Contaminated Hanford Vadose Zone Sediments under Saturated and Unsaturated Conditions. Vadose Zone Journal, 2008, 7, 1144-1159.	2.2	8
82	CR(VI) FATE IN MINERALOGICALLY ALTERED SEDIMENTS BY HYPERALKALINE WASTE FLUIDS. Soil Science, 2007, 172, 598-613.	0.9	11
83	Fe-solid phase transformations under highly basic conditions. Applied Geochemistry, 2007, 22, 2054-2064.	3.0	8
84	Ion Transport Dynamics in Acid Variable Charge Subsoils. Soil Science and Plant Nutrition, 2005, 51, 601-603.	1.9	0
85	Kinetic Desorption and Sorption of U(VI) during Reactive Transport in a Contaminated Hanford Sediment. Environmental Science &	10.0	137
86	Variable Charge Soils: Their Mineralogy, Chemistry and Management. Advances in Agronomy, 2004, 84, 159-215.	5.2	137
87	Transport-controlled kinetics of dissolution and precipitation in the sediments under alkaline and saline conditions. Geochimica Et Cosmochimica Acta, 2004, 68, 2981-2995.	3.9	47
88	Effect of Coupled Dissolution and Redox Reactions on Cr(VI)aqAttenuation during Transport in the Sediments under Hyperalkaline Conditions. Environmental Science & Technology, 2003, 37, 3640-3646.	10.0	39
89	Aluminum Effect on Dissolution and Precipitation under Hyperalkaline Conditions. Journal of Environmental Quality, 2003, 32, 2364-2372.	2.0	43
90	Aluminum Effect on Dissolution and Precipitation under Hyperalkaline Conditions. Journal of Environmental Quality, 2003, 32, 2354-2363.	2.0	24

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91	Adsorption and Desorption of Indifferent Ions in Variable Charge Subsoils. Soil Science Society of America Journal, 2002, 66, 1231-1239.	2.2	38
92	Design and Ammoniaâ€Recovery Evaluation of a Wind Speedâ€Sensitive Chamber System. Soil Science Society of America Journal, 2001, 65, 1302-1306.	2.2	23
93	RETENTION AND TRANSPORT OF CALCIUM NITRATE IN VARIABLE CHARGE SUBSOILS. Soil Science, 2001, 166, 297-307.	0.9	38
94	ARSENIC, BORON, SELENIUM, AND MOLYBDENUM DISPLACEMENT AND TRANSPORT IN A FLY ASH AMENDED SOIL LEACHED WITH CALCIUM PHOSPHATE SOLUTION. Communications in Soil Science and Plant Analysis, 2001, 32, 1499-1512.	1.4	4
95	Anion Transport in Columns of Variable Charge Subsoils: Nitrate and Chloride. Journal of Environmental Quality, 2000, 29, 484-493.	2.0	48
96	Mineralogy and chemistry of some variable charge subsoils. Communications in Soil Science and Plant Analysis, 2000, 31, 1051-1070.	1.4	38
97	Arsenate Displacement from Fly Ash in Amended Soils. Water, Air, and Soil Pollution, 1999, 114, 185-198.	2.4	47
98	Anion Transport through Columns of Highly Weathered Acid Soil: Adsorption and Retardation. Soil Science Society of America Journal, 1996, 60, 132-137.	2.2	81
99	Stability of mineralâ€organic matter associations under varying biogeochemical conditions. Soil Science Society of America Journal, 0, , .	2.2	0
100	Selective Interactions of Soil Organic Matter Compounds with Calcite and the Role of Aqueous Ca. ACS Earth and Space Chemistry, 0, , .	2.7	4