

Kyoungphile Nam

List of Publications by Year in descending order

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110
papers

2,399
citations

218677

26
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113
all docs

113
docs citations

113
times ranked

2609
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Nanoporosity and Hydrophobicity in Sequestration and Bioavailability: Tests with Model Solids. <i>Environmental Science & Technology</i> , 1998, 32, 71-74.	10.0	213
2	Relationship between Organic Matter Content of Soil and the Sequestration of Phenanthrene. <i>Environmental Science & Technology</i> , 1998, 32, 3785-3788.	10.0	202
3	Enhanced degradation of polycyclic aromatic hydrocarbons by biodegradation combined with a modified Fenton reaction. <i>Chemosphere</i> , 2001, 45, 11-20.	8.2	194
4	Correlation between biological and physical availabilities of phenanthrene in soils and soil humin in aging experiments. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1720-1727.	4.3	109
5	Effect of different soil washing solutions on bioavailability of residual arsenic in soils and soil properties. <i>Chemosphere</i> , 2015, 138, 253-258.	8.2	80
6	Combined ozonation and biodegradation for remediation of mixtures of polycyclic aromatic hydrocarbons in soil. <i>Biodegradation</i> , 2000, 11, 1-9.	3.0	77
7	A long-term performance test on an autotrophic denitrification column for application as a permeable reactive barrier. <i>Chemosphere</i> , 2008, 73, 723-728.	8.2	75
8	Effect of reactive media composition and co-contaminants on sulfur-based autotrophic denitrification. <i>Environmental Pollution</i> , 2006, 144, 802-807.	7.5	60
9	Survival of introduced phosphate-solubilizing bacteria (PSB) and their impact on microbial community structure during the phytoextraction of Cd-contaminated soil. <i>Journal of Hazardous Materials</i> , 2013, 263, 441-449.	12.4	55
10	Changes in soil toxicity by phosphate-aided soil washing: Effect of soil characteristics, chemical forms of arsenic, and cations in washing solutions. <i>Chemosphere</i> , 2015, 119, 1399-1405.	8.2	47
11	Prediction of Cd and Pb toxicity to <i>Vibrio fischeri</i> using biotic ligand-based models in soil. <i>Journal of Hazardous Materials</i> , 2012, 203-204, 69-76.	12.4	44
12	Effect of pretreatment solutions and conditions on decomposition and anaerobic digestion of lignocellulosic biomass in rice straw. <i>Biochemical Engineering Journal</i> , 2018, 140, 108-114.	3.6	44
13	Extended biotic ligand model for prediction of mixture toxicity of Cd and Pb using single metal toxicity data. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1697-1703.	4.3	42
14	Change in the site density and surface acidity of clay minerals by acid or alkali spills and its effect on pH buffering capacity. <i>Scientific Reports</i> , 2019, 9, 9878.	3.3	39
15	Effectiveness of compacted soil liner as a gas barrier layer in the landfill final cover system. <i>Waste Management</i> , 2008, 28, 1909-1914.	7.4	38
16	Minimizing mixing intensity to improve the performance of rice straw anaerobic digestion via enhanced development of microbe-substrate aggregates. <i>Bioresource Technology</i> , 2017, 245, 590-597.	9.6	38
17	Enhanced uptake and translocation of arsenic in Cretan brake fern (<i>Pteris cretica</i> L.) through siderophore-arsenic complex formation with an aid of rhizospheric bacterial activity. <i>Journal of Hazardous Materials</i> , 2014, 280, 536-543.	12.4	36
18	Identification of pH-dependent removal mechanisms of lead and arsenic by basic oxygen furnace slag: Relative contribution of precipitation and adsorption. <i>Journal of Cleaner Production</i> , 2021, 279, 123451.	9.3	36

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19	Human health risk assessment of explosives and heavy metals at a military gunnery range. <i>Environmental Geochemistry and Health</i> , 2007, 29, 259-269.	3.4	34
20	Effect of C/N ratio on polyhydroxyalkanoates (PHA) accumulation by <i>Cupriavidus necator</i> and its implication on the use of rice straw hydrolysates. <i>Environmental Engineering Research</i> , 2015, 20, 246-253.	2.5	33
21	Relationship between biodegradation rate and percentage of a compound that becomes sequestered in soil. <i>Soil Biology and Biochemistry</i> , 2001, 33, 787-792.	8.8	31
22	Determination of human health risk incorporating experimentally derived site-specific bioaccessibility of arsenic at an old abandoned smelter site. <i>Environmental Research</i> , 2015, 137, 78-84.	7.5	31
23	Evaluation of the effectiveness of in situ stabilization in the field aged arsenic-contaminated soil: Chemical extractability and biological response. <i>Journal of Hazardous Materials</i> , 2019, 367, 137-143.	12.4	31
24	Inhibition of urea hydrolysis by free Cu concentration of soil solution in microbially induced calcium carbonate precipitation. <i>Science of the Total Environment</i> , 2020, 740, 140194.	8.0	29
25	Initial Alkalinity Requirement and Effect of Alkalinity Sources in Sulfur-Based Autotrophic Denitrification Barrier System. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 971-975.	1.4	28
26	Enhancement of aerobic biodegradation in an oxygen-limiting environment using a saponin-based microbubble suspension. <i>Environmental Pollution</i> , 2009, 157, 2197-2202.	7.5	28
27	Effect of dissolved humic acid on the Pb bioavailability in soil solution and its consequence on ecological risk. <i>Journal of Hazardous Materials</i> , 2015, 286, 236-241.	12.4	28
28	Importance of chemical binding type between As and iron-oxide on bioaccessibility in soil: Test with synthesized two line ferrihydrite. <i>Journal of Hazardous Materials</i> , 2017, 330, 157-164.	12.4	27
29	Increased 3HV Concentration in the Bacterial Production of 3-Hydroxybutyrate (3HB) and 3-Hydroxyvalerate (3HV) Copolymer with Acid-Digested Rice Straw Waste. <i>Journal of Polymers and the Environment</i> , 2016, 24, 98-103.	5.0	26
30	Response surface modeling with Box-Behnken design for strontium removal from soil by calcium-based solution. <i>Environmental Pollution</i> , 2021, 274, 116577.	7.5	26
31	Prediction of landfarming period using degradation kinetics of petroleum hydrocarbons: test with artificially contaminated and field-aged soils and commercially available bacterial cultures. <i>Journal of Soils and Sediments</i> , 2014, 14, 138-145.	3.0	24
32	Application of microbially induced calcite precipitation to prevent soil loss by rainfall: effect of particle size and organic matter content. <i>Journal of Soils and Sediments</i> , 2021, 21, 2744-2754.	3.0	24
33	Interaction among soil physicochemical properties, bacterial community structure, and arsenic contamination: Clay-induced change in long-term arsenic contaminated soils. <i>Journal of Hazardous Materials</i> , 2019, 378, 120729.	12.4	23
34	Microbubble suspension as a carrier of oxygen and acclimated bacteria for phenanthrene biodegradation. <i>Journal of Hazardous Materials</i> , 2009, 163, 761-767.	12.4	22
35	Binding strength-associated toxicity reduction by birnessite and hydroxyapatite in Pb and Cd contaminated sediments. <i>Journal of Hazardous Materials</i> , 2011, 186, 2117-2122.	12.4	22
36	Movement of Heavy Metals in Soil through Preferential Flow Paths under Different Rainfall Intensities. <i>Clean - Soil, Air, Water</i> , 2008, 36, 984-989.	1.1	21

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37	Optimization of Carbon Dioxide and Valeric Acid Utilization for Polyhydroxyalkanoates Synthesis by <i>Cupriavidus necator</i> . <i>Journal of Polymers and the Environment</i> , 2014, 22, 244-251.	5.0	18
38	Experimental determination of nonequilibrium transport parameters reflecting the competitive sorption between Cu and Pb in slag-sand column. <i>Chemosphere</i> , 2016, 154, 335-342.	8.2	18
39	Applicability of a submersible microbial fuel cell for Cr(VI) detection in water. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 613.	2.7	17
40	Effect of acid-digested rice straw waste feeding methods on the 3HV fraction of bacterial poly(3-hydroxybutyrate-co-3-hydroxyvalerate) production. <i>Process Biochemistry</i> , 2016, 51, 2119-2126.	3.7	17
41	Prediction of long-term heavy metal leaching from dredged marine sediment applied inland as a construction material. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27352-27361.	5.3	17
42	Flow Characteristics of Microbubble Suspensions in Porous Media as an Oxygen Carrier. <i>Clean - Soil, Air, Water</i> , 2008, 36, 59-65.	1.1	15
43	Distribution of the Microbial Community Structure in Sulfur-Based Autotrophic Denitrification Columns. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 481-486.	1.4	15
44	Increased ecological risk due to the hyperaccumulation of As in <i>Pteris cretica</i> during the phytoremediation of an As-contaminated site. <i>Chemosphere</i> , 2015, 122, 1-7.	8.2	15
45	Use of reporter-gene based bacteria to quantify phenanthrene biodegradation and toxicity in soil. <i>Environmental Pollution</i> , 2011, 159, 509-514.	7.5	14
46	Stabilization mechanism of arsenic in mine waste using basic oxygen furnace slag: The role of water contents on stabilization efficiency. <i>Chemosphere</i> , 2018, 208, 916-921.	8.2	14
47	Extension of biotic ligand model to account for the effects of pH and phosphate in accurate prediction of arsenate toxicity. <i>Journal of Hazardous Materials</i> , 2020, 385, 121619.	12.4	13
48	Persistence and bioavailability of hydrophobic organic compounds in the environment. <i>Geosciences Journal</i> , 2002, 6, 13-21.	1.2	12
49	Facilitated desorption and stabilization of sediment-bound Pb and Cd in the presence of birnessite and apatite. <i>Journal of Hazardous Materials</i> , 2011, 188, 206-211.	12.4	12
50	Effect of basic oxygen furnace slag addition on enhanced alkaline sludge fermentation and simultaneous phosphate removal. <i>Journal of Environmental Management</i> , 2019, 239, 66-72.	7.8	12
51	Combined use of collision cell technique and methanol addition for the analysis of arsenic in a high-chloride-containing sample by ICP-MS. <i>Microchemical Journal</i> , 2015, 120, 77-81.	4.5	11
52	Effect of biogeochemical interactions on bioaccessibility of arsenic in soils of a former smelter site in Republic of Korea. <i>Environmental Geochemistry and Health</i> , 2016, 38, 1347-1354.	3.4	11
53	Effect of Calcium Organic Additives on the Self-Healing of Concrete Microcracks in the Presence of a New Isolate <i>Bacillus</i> sp. BY1. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, 04019227.	2.9	11
54	Role of phosphate and Fe-oxides on the acid-aided extraction efficiency and readsorption of As in field-aged soil. <i>Journal of Hazardous Materials</i> , 2015, 300, 161-166.	12.4	10

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55	Mechanism for alkaline leachate reduction through calcium carbonate precipitation on basic oxygen furnace slag by different carbonate sources: Application of NaHCO ₃ and CO ₂ gas. <i>Waste Management</i> , 2020, 103, 122-127.	7.4	10
56	Incorporation of Heavy Metals Bioavailability into Risk Characterization. <i>Clean - Soil, Air, Water</i> , 2010, 38, 812-815.	1.1	9
57	The effect of arsenic chemical form and mixing regime on arsenic mass transfer from soil to magnetite. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8479-8488.	5.3	9
58	Effect of initial pH, operating temperature, and dissolved oxygen concentrations on performance of pyrite-fuel cells in the presence of <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of Hazardous Materials</i> , 2018, 360, 512-519.	12.4	9
59	Effect of neutralizing agents on the type of As co-precipitates formed by in situ Fe oxides synthesis and its impact on the bioaccessibility of As in soil. <i>Science of the Total Environment</i> , 2020, 743, 140686.	8.0	9
60	Mitigation of Ammonia and Hydrogen Sulfide Emissions by Stable Aqueous Foam-Microbial Media. <i>Environmental Science & Technology</i> , 2006, 40, 3030-3035.	10.0	8
61	Reduction of Ammonia and Hydrogen Sulfide Emission from Swine Manure Using Aqueous Foams Amended with Microorganisms and Chemical Additives. <i>Clean - Soil, Air, Water</i> , 2007, 35, 230-234.	1.1	8
62	Ecological Risk Characterization in a Military Heavy Metals and Explosives-Contaminated Site. <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 856-872.	3.4	8
63	Differential in vitro bioaccessibility of residual As in a field-aged former smelter site and its implication for potential risk. <i>Science of the Total Environment</i> , 2013, 463-464, 348-354.	8.0	8
64	Mobility and bioavailability reduction of soil TNT via sorption enhancement using monopotassium phosphate. <i>Journal of Hazardous Materials</i> , 2014, 275, 26-30.	12.4	8
65	Characteristics of heavy metal contamination by anthropogenic sources in artificial lakes of urban environment. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 121-128.	1.9	8
66	Long-term leaching prediction of constituents in coal bottom ash used as a structural fill material. <i>Journal of Soils and Sediments</i> , 2017, 17, 2742-2751.	3.0	8
67	Contribution of precipitation and adsorption on stabilization of Pb in mine waste by basic oxygen furnace slag and the stability of Pb under reductive condition. <i>Chemosphere</i> , 2021, 263, 128337.	8.2	8
68	Effect of monovalent and divalent ion solutions as washing agents on the removal of Sr and Cs from soil near a nuclear power plant. <i>Journal of Hazardous Materials</i> , 2021, 412, 125165.	12.4	7
69	Effect of organic substrate and Fe oxides transformation on the mobility of arsenic by biotic reductive dissolution under repetitive redox conditions. <i>Chemosphere</i> , 2022, 305, 135431.	8.2	7
70	Release characteristics of molasses from a well-type barrier system in groundwater: a large test tank study for nitrate removal. <i>Environmental Earth Sciences</i> , 2013, 70, 167-174.	2.7	6
71	Risk Assessment of Environmental Pollutants in Korea for Soil and Groundwater Remediation. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 723-723.	3.4	6
72	Human Health Risk Assessment of a Civilian-Accessible Active Firing Range. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 807-818.	3.4	6

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73	Availability of coastal groundwater discharge as an alternative water resource in a large-scale reclaimed land, Korea. <i>Environmental Earth Sciences</i> , 2014, 71, 1521-1532.	2.7	6
74	Effect of soil conditions on natural attenuation of 2,4,6-trinitrotoluene (TNT) by UV photolysis in soils at an active firing range in South Korea. <i>Journal of Soils and Sediments</i> , 2015, 15, 1455-1462.	3.0	6
75	Environmental Compatibility of Lightweight Aggregates from Mine Tailings and Industrial Byproducts. <i>Metals</i> , 2017, 7, 390.	2.3	5
76	Estimation of human-origin estrone and 17 β -estradiol concentrations in the Han River, Seoul, South Korea and its uncertainty-based ecological risk characterization. <i>Science of the Total Environment</i> , 2018, 633, 1148-1155.	8.0	5
77	Diffusive gradients in thin films technique coupled to X-ray fluorescence spectrometry for the determination of bioavailable arsenic concentrations in soil. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 164, 105752.	2.9	5
78	Applicability of Soil Washing with Neutral Phosphate for Remediation of Arsenic-contaminated Soil at the Former Janghang Smelter Site. <i>Journal of Soil and Groundwater Environment</i> , 2014, 19, 45-51.	0.1	5
79	Determination of Human Health Risk Incorporated with Arsenic Bioaccessibility and Remediation Goals at the Former Janghang Smelter Site. <i>Journal of Soil and Groundwater Environment</i> , 2014, 19, 52-61.	0.1	5
80	Long-Term Stability of High-n-Caproate Specificity-Ensuring Anaerobic Membrane Bioreactors: Controlling Microbial Competitions through Feeding Strategies. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1595-1604.	6.7	5
81	Enhanced reactivity of hydroxylated polycyclic aromatic hydrocarbons to birnessite in soil: Reaction kinetics and nonextractable residue formation. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1031-1038.	4.3	4
82	Potential use of a self-dying reporter bacterium to determine the bioavailability of aged phenanthrene in soil: Comparison with physicochemical measures. <i>Journal of Hazardous Materials</i> , 2014, 265, 1-7.	12.4	4
83	Effect of methanol addition on generation of isobaric polyatomic ions in the analysis of arsenic with ICP-MS. <i>Microchemical Journal</i> , 2017, 131, 170-173.	4.5	4
84	Shaping a reactor microbiome generating stable n-caproate productivity through Design-Build-Test-Learn approach. <i>Chemical Engineering Journal</i> , 2021, 425, 131587.	12.7	4
85	Differential mode of denitrification by <i>Pseudomonas</i> sp. KY1 using molasses as a carbon source. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 2097-2105.	1.9	3
86	Reduction of bioaccessibility of As in soil through in situ formation of amorphous Fe oxides and its long-term stability. <i>Science of the Total Environment</i> , 2020, 745, 140989.	8.0	3
87	Derivation of ecotoxicologically acceptable Cu concentrations in the Han River basin, Korea with emphasis on Ca concentration and instantaneously changing water characteristics. <i>Science of the Total Environment</i> , 2022, 828, 154495.	8.0	3
88	Mass transport of organic contaminants through a self-sealing/self-healing mineral landfill liner. <i>Journal of Material Cycles and Waste Management</i> , 2003, 5, 130-136.	3.0	2
89	Phenanthrene metabolites bound to soil organic matter by birnessite following partial biodegradation. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 946-952.	4.3	2
90	Different fate of Pb and Cu at varied peroxide concentrations during the modified Fenton reaction in soil and its effect on the degradation of 2,4-dinitrotoluene. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1481-1487.	3.2	2

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91	Nitrate-N removal using slowly released molasses barrier in a shallow aquifer: Obstacles from lab/pilot-scale results to field application. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 1096-1101.	1.9	2
92	Decision Making Framework for Beneficial use of Dredged Sediment in the Terrestrial Environment based on Environmental Risk Assessment and Sediment Characterization. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2018, 40, 227-238.	1.1	2
93	Effect of Aging on the Chemical Forms and Phytotoxicity of Arsenic in Soil. <i>Journal of Soil and Groundwater Environment</i> , 2016, 21, 82-87.	0.1	2
94	Determining the reuse of metal mine wastes based on leaching test and human health risk assessment. <i>Environmental Engineering Research</i> , 2019, 24, 82-90.	2.5	2
95	Physicochemical and fertility characteristics of microalgal soil ameliorants using harvested cyanobacterial microalgal sludge from a freshwater ecosystem, Republic of Korea. <i>Heliyon</i> , 2022, 8, e09700.	3.2	2
96	Determination of phenanthrene bioavailability by using a self-dying reporter bacterium: Test with model solids and soil. <i>Journal of Biotechnology</i> , 2012, 157, 454-459.	3.8	1
97	Potential Health Risk of Reused Creosote-Treated Old Railway Ties at Recreational Sites in Korea. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 778-791.	3.4	1
98	Slowly released molasses barrier system for controlling nitrate plumes in groundwater: A pilot-scale tank study. <i>Chemosphere</i> , 2014, 97, 135-139.	8.2	1
99	The Toxicity Assessment of Explosives Contaminated Soil using Soil Microbial Activity Tests. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 37-45.	0.1	1
100	Applicability of Stabilization with Iron Oxides for Arsenic-Contaminated Soil at the Forest Area near the Former Janghang Smelter Site. <i>Journal of Soil and Groundwater Environment</i> , 2016, 21, 14-21.	0.1	1
101	Applicability of tire powder for the control of volatile organic compound emission in solid waste landfills. <i>KSCE Journal of Civil Engineering</i> , 2002, 6, 89-95.	1.9	0
102	Bioavailability of Organohalides. , 2004, , 291-302.		0
103	ALTERED MOBILITY OF BENZ[a]ANTHRACENE IN THE PRESENCE OF p-XYLENE AND ITS IMPACT ON RISK IN THE SUBSURFACE. <i>Polycyclic Aromatic Compounds</i> , 2008, 28, 598-610.	2.6	0
104	Risk Assessment of Volatile Organic Compounds for Vapor Intrusion Pathway Using Various Estimation Methodology of Indoor Air Concentration. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 51-65.	0.1	0
105	An Environmental Management Protocol for the Mitigation of Contaminants Migration from Military Operational Ranges. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 8-18.	0.1	0
106	Risk Evaluation of Monopotassium Phosphate (MKP) and Bentonite Application via the Mobility Reduction of Soil TNT and Heavy Metals. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 28-36.	0.1	0
107	Application of TREECS Program to Predict the Fate of TNT and RDX from Firing Range. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 133-139.	0.1	0
108	Study on Determination of Permissible Soil Concentrations for Explosives and Heavy Metals. <i>Journal of Soil and Groundwater Environment</i> , 2015, 20, 19-27.	0.1	0

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109	Applicability of Enhanced-phytoremediation for Arsenic-contaminated Soil. Journal of Soil and Groundwater Environment, 2016, 21, 40-48.	0.1	0
110	Effect of Basic Oxygen Furnace Slag used as Structural Filling Materials on the Subsurface Environment. Journal of Soil and Groundwater Environment, 2016, 21, 6-13.	0.1	0