

# Constantinos V Chrysikopoulos

## List of Publications by Year in descending order

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129  
papers

5,102  
citations

57758

44  
h-index

110387

64  
g-index

136  
all docs

136  
docs citations

136  
times ranked

2866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of copper, silver and zinc nanoparticles against foliar and soil-borne plant pathogens. <i>Science of the Total Environment</i> , 2019, 670, 292-299.	8.0	170
2	Effect of Gravity on Colloid Transport through Water-Saturated Columns Packed with Glass Beads: Modeling and Experiments. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6805-6813.	10.0	150
3	Attachment of bacteriophages MS2 and $\phi$ X174 onto kaolinite and montmorillonite: Extended-DLVO interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 74-83.	5.0	146
4	Analysis of one-dimensional solute transport through porous media with spatially variable retardation factor. <i>Water Resources Research</i> , 1990, 26, 437-446.	4.2	118
5	Cotransport of clay colloids and viruses in water saturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 416, 56-65.	4.7	108
6	Colloid particle size-dependent dispersivity. <i>Water Resources Research</i> , 2015, 51, 4668-4683.	4.2	107
7	Transport of colloids in unsaturated packed columns: Role of ionic strength and sand grain size. <i>Chemical Engineering Journal</i> , 2013, 232, 237-248.	12.7	101
8	Interaction Between Graphene Oxide Nanoparticles and Quartz Sand. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13413-13421.	10.0	93
9	Interaction between Viruses and Clays in Static and Dynamic Batch Systems. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4539-4544.	10.0	92
10	Early breakthrough of colloids and bacteriophage MS2 in a water-saturated sand column. <i>Water Resources Research</i> , 2004, 40, .	4.2	89
11	Cotransport of <i>Pseudomonas putida</i> and kaolinite particles through water-saturated columns packed with glass beads. <i>Water Resources Research</i> , 2011, 47, .	4.2	88
12	Degradation of PAHs by high frequency ultrasound. <i>Water Research</i> , 2011, 45, 2587-2594.	11.3	81
13	Cotransport of Graphene Oxide Nanoparticles and Kaolinite Colloids in Porous Media. <i>Transport in Porous Media</i> , 2017, 119, 181-204.	2.6	80
14	Fate and transport of pathogens in a fractured aquifer in the Salento area, Italy. <i>Water Resources Research</i> , 2008, 44, .	4.2	78
15	Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity. <i>Journal of Contaminant Hydrology</i> , 2011, 126, 301-314.	3.3	77
16	One-dimensional virus transport in homogeneous porous media with time-dependent distribution coefficient. <i>Journal of Hydrology</i> , 1996, 185, 199-219.	5.4	75
17	Biosorption of Cu <sup>2+</sup> and Ni <sup>2+</sup> by <i>Arthrospira platensis</i> with different biochemical compositions. <i>Chemical Engineering Journal</i> , 2015, 259, 806-813.	12.7	74
18	Three-Dimensional Analytical Models of Contaminant Transport From Nonaqueous Phase Liquid Pool Dissolution in Saturated Subsurface Formations. <i>Water Resources Research</i> , 1995, 31, 1137-1145.	4.2	73

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19	Mathematical modeling of colloid and virus cotransport in porous media: Application to experimental data. <i>Advances in Water Resources</i> , 2014, 68, 62-73.	3.8	71
20	Analytical Models for One-Dimensional Virus Transport in Saturated Porous Media. <i>Water Resources Research</i> , 1995, 31, 1429-1437.	4.2	68
21	Analysis of a model for contaminant transport in fractured media in the presence of colloids. <i>Journal of Hydrology</i> , 1995, 165, 261-281.	5.4	67
22	Transport of polydisperse colloids in a saturated fracture with spatially variable aperture. <i>Water Resources Research</i> , 2000, 36, 1457-1465.	4.2	67
23	Removal of mercury from aqueous solutions by malt spent rootlets. <i>Chemical Engineering Journal</i> , 2012, 213, 135-141.	12.7	66
24	Effective velocity and effective dispersion coefficient for finite-sized particles flowing in a uniform fracture. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 288-295.	9.4	65
25	One-Dimensional Virus Transport in Porous Media With Time-Dependent Inactivation Rate Coefficients. <i>Water Resources Research</i> , 1996, 32, 2607-2611.	4.2	64
26	Modeling of colloid and colloid-facilitated contaminant transport in a two-dimensional fracture with spatially variable aperture. <i>Transport in Porous Media</i> , 1995, 20, 197-221.	2.6	62
27	Modeling colloid transport and deposition in saturated fractures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 121, 189-202.	4.7	60
28	Experimental investigation of virus and clay particles cotransport in partially saturated columns packed with glass beads. <i>Journal of Colloid and Interface Science</i> , 2015, 440, 140-150.	9.4	60
29	Three-Dimensional Analytical Models for Virus Transport in Saturated Porous Media. <i>Transport in Porous Media</i> , 1998, 30, 87-112.	2.6	59
30	Heteroaggregation of graphene oxide nanoparticles and kaolinite colloids. <i>Science of the Total Environment</i> , 2017, 579, 736-744.	8.0	59
31	Transport of polydisperse colloid suspensions in a single fracture. <i>Water Resources Research</i> , 1999, 35, 707-718.	4.2	57
32	Virus transport in unsaturated porous media. <i>Water Resources Research</i> , 2000, 36, 173-179.	4.2	57
33	Virus fate and transport during artificial recharge with recycled water. <i>Water Resources Research</i> , 2005, 41, .	4.2	57
34	Transport of Viruses Through Saturated and Unsaturated Columns Packed with Sand. <i>Transport in Porous Media</i> , 2009, 76, 121-138.	2.6	56
35	Analytical solutions for one-dimensional colloid transport in saturated fractures. <i>Advances in Water Resources</i> , 1994, 17, 283-296.	3.8	54
36	Cotransport of clay colloids and viruses through water-saturated vertically oriented columns packed with glass beads: Gravity effects. <i>Science of the Total Environment</i> , 2016, 545-546, 210-218.	8.0	54

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37	Modeling of contaminant transport resulting from dissolution of nonaqueous phase liquid pools in saturated porous media. <i>Transport in Porous Media</i> , 1994, 16, 125-145.	2.6	53
38	Generalized Taylor-Aris moment analysis of the transport of sorbing solutes through porous media with spatially-periodic retardation factor. <i>Transport in Porous Media</i> , 1992, 7, 163-185.	2.6	52
39	Mass transfer correlations for nonaqueous phase liquid pool dissolution in saturated porous media. <i>Water Resources Research</i> , 1999, 35, 449-459.	4.2	52
40	Interaction of human adenoviruses and coliphages with kaolinite and bentonite. <i>Science of the Total Environment</i> , 2015, 517, 86-95.	8.0	52
41	Inactivation of MS2 bacteriophage by titanium dioxide nanoparticles in the presence of quartz sand with and without ambient light. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 117-125.	9.4	52
42	Cotransport of human adenoviruses with clay colloids and TiO <sub>2</sub> nanoparticles in saturated porous media: Effect of flow velocity. <i>Science of the Total Environment</i> , 2017, 598, 160-167.	8.0	50
43	Evaluation of the Factors Controlling the Time-Dependent Inactivation Rate Coefficients of Bacteriophage MS2 and PRD1. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3237-3242.	10.0	49
44	Synergy between Cu-NPs and fungicides against <i>Botrytis cinerea</i> . <i>Science of the Total Environment</i> , 2020, 703, 135557.	8.0	48
45	Removal of Biocolloids Suspended in Reclaimed Wastewater by Injection into a Fractured Aquifer Model. <i>Environmental Science &amp; Technology</i> , 2010, 44, 971-977.	10.0	47
46	Dissolution of a well-defined trichloroethylene pool in saturated porous media: Experimental design and aquifer characterization. <i>Water Resources Research</i> , 2000, 36, 1687-1696.	4.2	45
47	Contaminant transport in a fracture with spatially variable aperture in the presence of monodisperse and polydisperse colloids. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 266-279.	4.0	45
48	Attachment of <i>Pseudomonas putida</i> onto differently structured kaolinite minerals: A combined ATR-FTIR and <sup>1</sup> H NMR study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 354-359.	5.0	45
49	Modeling dense-colloid and virus cotransport in three-dimensional porous media. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 102-113.	3.3	44
50	Contaminant transport resulting from multicomponent nonaqueous phase liquid pool dissolution in three-dimensional subsurface formations. <i>Journal of Contaminant Hydrology</i> , 1998, 31, 1-21.	3.3	43
51	Mass transfer coefficient and concentration boundary layer thickness for a dissolving NAPL pool in porous media. <i>Journal of Hazardous Materials</i> , 2003, 97, 245-255.	12.4	41
52	Influence of graphene oxide nanoparticles on the transport and cotransport of biocolloids in saturated porous media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110841.	5.0	41
53	Macrodispersion of sorbing solutes in heterogeneous porous formations with spatially periodic retardation factor and velocity field. <i>Water Resources Research</i> , 1992, 28, 1517-1529.	4.2	40
54	Analytical solutions for solute transport in saturated porous media with semi-infinite or finite thickness. <i>Advances in Water Resources</i> , 1999, 22, 507-519.	3.8	40

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55	Virus inactivation in the presence of quartz sand under static and dynamic batch conditions at different temperatures. <i>Journal of Hazardous Materials</i> , 2012, 233-234, 148-157.	12.4	40
56	Virus attachment onto quartz sand: Role of grain size and temperature. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 796-801.	6.7	40
57	Analytical solutions for monodisperse and polydisperse colloid transport in uniform fractures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 226, 101-118.	4.7	39
58	Characterization of TiO <sub>2</sub> nanoparticle suspensions in aqueous solutions and TiO <sub>2</sub> nanoparticle retention in water-saturated columns packed with glass beads. <i>Chemical Engineering Journal</i> , 2015, 262, 823-830.	12.7	39
59	Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity. <i>Journal of Contaminant Hydrology</i> , 2012, 129-130, 11-24.	3.3	38
60	Monodisperse and polydisperse colloid transport in water-saturated fractures with various orientations: Gravity effects. <i>Advances in Water Resources</i> , 2011, 34, 1249-1255.	3.8	37
61	Modeling the Transport of Aggregating Nanoparticles in Porous Media. <i>Water Resources Research</i> , 2021, 57, .	4.2	37
62	Numerical modeling of three-dimensional contaminant migration from dissolution of multicomponent NAPL pools in saturated porous media. <i>Environmental Geology</i> , 1995, 26, 157-165.	1.2	36
63	Title is missing!. <i>Transport in Porous Media</i> , 2000, 38, 167-187.	2.6	36
64	Occurrence and distribution of pharmaceuticals and personal care products (PPCPs) detected in lakes around the world - A review. <i>Environmental Advances</i> , 2021, 6, 100131.	4.8	34
65	Experimental investigation of acoustically enhanced solute transport in porous media. <i>Geophysical Research Letters</i> , 2002, 29, 5-1-5-4.	4.0	33
66	Artificial tracers for geothermal reservoir studies. <i>Environmental Geology and Water Sciences</i> , 1993, 22, 60-70.	0.4	32
67	Virus inactivation by high frequency ultrasound in combination with visible light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 107, 174-179.	5.0	31
68	Title is missing!. <i>Transport in Porous Media</i> , 2000, 38, 93-115.	2.6	30
69	An efficient particle tracking equation with specified spatial step for the solution of the diffusion equation. <i>Chemical Engineering Science</i> , 2001, 56, 6535-6543.	3.8	30
70	Transport of <i>Pseudomonas putida</i> in a 3-D Bench Scale Experimental Aquifer. <i>Transport in Porous Media</i> , 2012, 94, 617-642.	2.6	29
71	One-dimensional solute transport in porous media with well-to-well recirculation: Application to field experiments. <i>Water Resources Research</i> , 1990, 26, 1189-1195.	4.2	28
72	NAPL Pool Dissolution in Stratified and Anisotropic Porous Formations. <i>Journal of Environmental Engineering, ASCE</i> , 1998, 124, 851-862.	1.4	27

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73	Acoustically Enhanced Ganglia Dissolution and Mobilization in a Monolayer of Glass Beads. <i>Transport in Porous Media</i> , 2006, 64, 103-121.	2.6	27
74	Experimental investigation of acoustically enhanced colloid transport in water-saturated packed columns. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 200-207.	9.4	27
75	Design and analysis of a solar reactor for anaerobic wastewater treatment. <i>Bioresource Technology</i> , 2008, 99, 7742-7749.	9.6	27
76	Analytical models for virus adsorption and inactivation in unsaturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 155, 189-197.	4.7	26
77	Title is missing!. <i>Transport in Porous Media</i> , 2003, 51, 191-210.	2.6	26
78	Interaction of graphene oxide nanoparticles with quartz sand and montmorillonite colloids. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1127-1138.	2.2	26
79	Use of silver nanoparticles to counter fungicide-resistance in <i>Monilinia fructicola</i> . <i>Science of the Total Environment</i> , 2020, 747, 141287.	8.0	26
80	A three-dimensional steady-state atmospheric dispersion-deposition model for emissions from a ground-level area source. <i>Atmospheric Environment Part A General Topics</i> , 1992, 26, 747-757.	1.3	25
81	Dissolution of a multicomponent DNAPL pool in an experimental aquifer. <i>Journal of Hazardous Materials</i> , 2006, 128, 218-226.	12.4	24
82	Impact of Spatially Variable Collision Efficiency on the Transport of Biocolloids in Geochemically Heterogeneous Porous Media. <i>Water Resources Research</i> , 2018, 54, 3841-3862.	4.2	23
83	Estimation of time dependent virus inactivation rates by geostatistical and resampling techniques: application to virus transport in porous media. <i>Stochastic Environmental Research and Risk Assessment</i> , 2004, 18, 67-78.	4.0	22
84	Copper nanoparticles against benzimidazole-resistant <i>Monilinia fructicola</i> field isolates. <i>Pesticide Biochemistry and Physiology</i> , 2021, 173, 104796.	3.6	22
85	Fitting the Transport and Attachment of Dense Biocolloids in One-Dimensional Porous Media: <code>&lt;sc&gt;ColloidFit&lt;/sc&gt;</code> . <i>Ground Water</i> , 2017, 55, 156-159.	1.3	21
86	Unsaturated flow in a quasi-three-dimensional fractured medium with spatially variable aperture. <i>Water Resources Research</i> , 1996, 32, 1531-1540.	4.2	20
87	Dissolution of a well-defined trichloroethylene pool in saturated porous media: experimental results and model simulations. <i>Water Research</i> , 2002, 36, 3911-3918.	11.3	20
88	Measuring and modeling the dissolution of nonideally shaped dense nonaqueous phase liquid pools in saturated porous media. <i>Water Resources Research</i> , 2002, 38, 8-1-8-14.	4.2	19
89	Acoustically Enhanced Multicomponent NAPL Ganglia Dissolution in Water Saturated Packed Columns. <i>Environmental Science &amp; Technology</i> , 2004, 38, 2940-2945.	10.0	18
90	Modeling colloid transport in fractures with spatially variable aperture and surface attachment. <i>Journal of Hydrology</i> , 2018, 566, 735-742.	5.4	18

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91	Two-site colloid transport with reversible and irreversible attachment: Analytical solutions. <i>Advances in Water Resources</i> , 2019, 130, 29-36.	3.8	18
92	Bootstrap estimation of the mass transfer coefficient of a dissolving nonaqueous phase liquid pool in porous media. <i>Water Resources Research</i> , 2002, 38, 8-1-8-6.	4.2	17
93	Transport of Human Adenoviruses in Water Saturated Laboratory Columns. <i>Food and Environmental Virology</i> , 2015, 7, 122-131.	3.4	17
94	Metal nanoparticles: Phytotoxicity on tomato and effect on symbiosis with the <i>Fusarium solani</i> FsK strain. <i>Science of the Total Environment</i> , 2021, 787, 147606.	8.0	15
95	An experimental study of acoustically enhanced NAPL dissolution in porous media. <i>AIChE Journal</i> , 2004, 50, 3271-3280.	3.6	14
96	Zinc nanoparticles: Mode of action and efficacy against boscalid-resistant <i>Alternaria alternata</i> isolates. <i>Science of the Total Environment</i> , 2022, 829, 154638.	8.0	13
97	Effective parameters for flow in saturated heterogeneous porous media. <i>Journal of Hydrology</i> , 1995, 170, 181-197.	5.4	12
98	Cosolvent-Water Displacement in One-Dimensional Soil Column. <i>Journal of Environmental Engineering, ASCE</i> , 1999, 125, 87-91.	1.4	12
99	A new method for in situ concentration measurements in packed-column transport experiments. <i>Chemical Engineering Science</i> , 2010, 65, 4285-4292.	3.8	12
100	Adsorption and Thermodynamics of Pharmaceuticals, Acyclovir and Fluconazole, onto Quartz Sand Under Static and Dynamic Conditions. <i>Environmental Engineering Science</i> , 2018, 35, 909-917.	1.6	12
101	Evaluation of Carbon Nanotubes and Quartz Sand for the Removal of Formaldehyde (2,4-Dinitrophenylhydrazine) from Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17003-17012.	3.7	12
102	Bacteriophage MS2 and titanium dioxide heteroaggregation: Effects of ambient light and the presence of quartz sand. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 281-288.	5.0	12
103	Dissolution of nonaqueous phase liquid pools in anisotropic aquifers. <i>Stochastic Environmental Research and Risk Assessment</i> , 2001, 15, 33-46.	4.0	11
104	Dense colloid transport in a bifurcating fracture. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 250-254.	9.4	11
105	Non-invasive in situ concentration determination of fluorescent or color tracers and pollutants in a glass pore network model. <i>Journal of Hazardous Materials</i> , 2011, 198, 299-306.	12.4	10
106	Effect of Clay Colloid Particles on Formaldehyde Transport in Unsaturated Porous Media. <i>Water (Switzerland)</i> , 2020, 12, 3541.	2.7	10
107	Metal nanoparticles against fungicide resistance: alternatives or partners?. <i>Pest Management Science</i> , 2022, 78, 3953-3956.	3.4	10
108	Investigation of soluble indium chelates for groundwater and hydrothermal fluid tracing. <i>Applied Geochemistry</i> , 1987, 2, 329-335.	3.0	9



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109	Modeling the emission and dispersion of volatile organics from surface aeration wastewater treatment facilities. <i>Water Research</i> , 1992, 26, 1045-1052.	11.3	9
110	Estimation of urine volume in municipal sewage originating from patients receiving antibiotics at a private clinic in Crete, Greece. <i>Science of the Total Environment</i> , 2020, 705, 134858.	8.0	9
111	Comment on "An Analytical Solution for One-Dimensional Transport in Heterogeneous Porous Media" by S. R. Yates. <i>Water Resources Research</i> , 1991, 27, 2163-2163.	4.2	8
112	Longitudinal interpolation of parameters characterizing channel geometry by piece-wise polynomial and universal kriging methods: effect on flow modeling. <i>Advances in Water Resources</i> , 2004, 27, 1061-1073.	3.8	8
113	Non-aqueous phase liquid drop formation within a water saturated fracture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 240, 199-209.	4.7	7
114	Effect of salinity on formaldehyde interaction with quartz sand and kaolinite colloid particles: batch and column experiments. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	7
115	Interaction of Titanium Dioxide with Formaldehyde in the Presence of Quartz Sand under Static and Dynamic Conditions. <i>Water (Switzerland)</i> , 2021, 13, 1420.	2.7	6
116	The role of nanoparticles (titanium dioxide, graphene oxide) on the inactivation of co-existing bacteria in the presence and absence of quartz sand. <i>Environmental Science and Pollution Research</i> , 2022, 29, 19199-19211.	5.3	6
117	Cotransport of titanium dioxide nanoparticles and formaldehyde in saturated and unsaturated columns packed with quartz sand. <i>Vadose Zone Journal</i> , 2023, 22, .	2.2	6
118	One-dimensional solute transport in porous media with partial well-to-well recirculation: Application to field experiments. <i>Water Resources Research</i> , 1990, 26, 1189-1195.	4.2	5
119	Experimental investigation of the effect of carbon dioxide on <i>Pseudomonas putida</i> biofilms in a two-dimensional glass network micromodel. <i>International Journal of Greenhouse Gas Control</i> , 2016, 46, 240-247.	4.6	3
120	Cotransport of Suspended Colloids and Nanoparticles in Porous Media. <i>Transport in Porous Media</i> , 2019, 128, 153-177.	2.6	3
121	Colloid transport through a variable-aperture fracture under unfavorable attachment conditions: Characterization with a continuous time random walk model. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 644, 128822.	4.7	3
122	Special Issue on fate and transport of biocolloids and nanoparticles in soil and groundwater systems. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 1-2.	3.3	2
123	Use of GreenZyme® for remediation of porous media polluted with jet fuel JP-5. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 277-286.	2.2	2
124	Effect of Mn(II) and Phytic Acid on Cr(VI) in the Ferrihydrite-Cr(VI) Co-precipitates: Implication for the Migration Behavior of Cr(VI). <i>ACS ES&amp;T Water</i> , 2022, 2, 1320-1331.	4.6	2
125	Nonaqueous Phase Liquid Pool Dissolution in Subsurface Formations. , 0, , 97-132.		1
126	Erratum to "Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity" [Journal of Contaminant Hydrology 126 (2011) 301-314]. <i>Journal of Contaminant Hydrology</i> , 2012, 129-130, 10.	3.3	1



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127	Mathematical Modelling of Bacterial Populations in Bio-remediation Processes. , 2011, , .		0
128	Assessment of the Effectiveness of a Solar System Heating an Anaerobic Bioreactor. Water, Air, and Soil Pollution, 2012, 223, 1443-1454.	2.4	0
129	Editorial: Advances in Pollutant Transport in Critical Zone Environments. Frontiers in Water, 2021, 3, .	2.3	0