Constantinos V Chrysikopoulos

List of Publications by Year
in descending order

129 papers	5,102 citations	57758 44 h-index
136 all docs	136 docs citations	136 times ranked

110387 64 g-index
2866 citing authors

#	Article	IF	Citations
1	Cotransport of titanium dioxide nanoparticles and formaldehyde in saturated and unsaturated columns packed with quartz sand. Vadose Zone Journal, 2023, 22, .	2.2	6
2	The role of nanoparticles (titanium dioxide, graphene oxide) on the inactivation of co-existing bacteria in the presence and absence of quartz sand. Environmental Science and Pollution Research, 2022, 29, 19199-19211.	5.3	6
3	Colloid transport through a variable-aperture fracture under unfavorable attachment conditions: Characterization with a continuous time random walk model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128822.	4.7	3
4	Zinc nanoparticles: Mode of action and efficacy against boscalid-resistant Alternaria alternata isolates. Science of the Total Environment, 2022, 829, 154638.	8.0	13
5	Metal nanoparticles against fungicide resistance: alternatives or partners?. Pest Management Science, 2022, 78, 3953-3956.	3.4	10
6	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). ACS ES&T Water, 2022, 2, 1320-1331.	4.6	2
7	Modeling the Transport of Aggregating Nanoparticles in Porous Media. Water Resources Research, 2021, 57, .	4.2	37
8	Copper nanoparticles against benzimidazole-resistant Monilinia fructicola field isolates. Pesticide Biochemistry and Physiology, 2021, 173, 104796.	3.6	22
9	Editorial: Advances in Pollutant Transport in Critical Zone Environments. Frontiers in Water, 2021, 3, .	2.3	0
10	Interaction of Titanium Dioxide with Formaldehyde in the Presence of Quartz Sand under Static and Dynamic Conditions. Water (Switzerland), 2021, 13, 1420.	2.7	6
11	Metal nanoparticles: Phytotoxicity on tomato and effect on symbiosis with the Fusarium solani FsK strain. Science of the Total Environment, 2021, 787, 147606.	8.0	15
12	Occurrence and distribution of pharmaceuticals and personal care products (PPCPs) detected in lakes around the world - A review. Environmental Advances, 2021, 6, 100131.	4.8	34
13	Interaction of graphene oxide nanoparticles with quartz sand and montmorillonite colloids. Environmental Technology (United Kingdom), 2020, 41, 1127-1138.	2.2	26
14	Use of GreenZyme® for remediation of porous media polluted with jet fuel JP-5. Environmental Technology (United Kingdom), 2020, 41, 277-286.	2.2	2
15	Estimation of urine volume in municipal sewage originating from patients receiving antibiotics at a private clinic in Crete, Greece. Science of the Total Environment, 2020, 705, 134858.	8.0	9
16	Synergy between Cu-NPs and fungicides against Botrytis cinerea. Science of the Total Environment, 2020, 703, 135557.	8.0	48
17	Use of silver nanoparticles to counter fungicide-resistance in Monilinia fructicola. Science of the Total Environment, 2020, 747, 141287.	8.0	26
18	Effect of Clay Colloid Particles on Formaldehyde Transport in Unsaturated Porous Media. Water (Switzerland), 2020, 12, 3541.	2.7	10

#	Article	IF	Citations
19	Influence of graphene oxide nanoparticles on the transport and cotransport of biocolloids in saturated porous media. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110841.	5.0	41
20	Two-site colloid transport with reversible and irreversible attachment: Analytical solutions. Advances in Water Resources, 2019, 130, 29-36.	3.8	18
21	Bacteriophage MS2 and titanium dioxide heteroaggregation: Effects of ambient light and the presence of quartz sand. Colloids and Surfaces B: Biointerfaces, 2019, 180, 281-288.	5.0	12
22	Use of copper, silver and zinc nanoparticles against foliar and soil-borne plant pathogens. Science of the Total Environment, 2019, 670, 292-299.	8.0	170
23	Effect of salinity on formaldehyde interaction with quartz sand and kaolinite colloid particles: batch and column experiments. Environmental Earth Sciences, 2019, 78, 1.	2.7	7
24	Cotransport of Suspended Colloids and Nanoparticles in Porous Media. Transport in Porous Media, 2019, 128, 153-177.	2.6	3
25	Adsorption and Thermodynamics of Pharmaceuticals, Acyclovir and Fluconazole, onto Quartz Sand Under Static and Dynamic Conditions. Environmental Engineering Science, 2018, 35, 909-917.	1.6	12
26	Evaluation of Carbon Nanotubes and Quartz Sand for the Removal of Formaldehydeâ€"(2,4-Dinitrophenylhydrazine) from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2018, 57, 17003-17012.	3.7	12
27	Modeling colloid transport in fractures with spatially variable aperture and surface attachment. Journal of Hydrology, 2018, 566, 735-742.	5.4	18
28	Impact of Spatially Variable Collision Efficiency on the Transport of Biocolloids in Geochemically Heterogeneous Porous Media. Water Resources Research, 2018, 54, 3841-3862.	4.2	23
29	Fitting the Transport and Attachment of Dense Biocolloids in Oneâ€Dimensional Porous Media: <scp>ColloidFit</scp>. Ground Water, 2017, 55, 156-159.	1.3	21
30	Inactivation of MS2 bacteriophage by titanium dioxide nanoparticles in the presence of quartz sand with and without ambient light. Journal of Colloid and Interface Science, 2017, 497, 117-125.	9.4	52
31	Cotransport of human adenoviruses with clay colloids and TiO2 nanoparticles in saturated porous media: Effect of flow velocity. Science of the Total Environment, 2017, 598, 160-167.	8.0	50
32	Heteroaggregation of graphene oxide nanoparticles and kaolinite colloids. Science of the Total Environment, 2017, 579, 736-744.	8.0	59
33	Cotransport of Graphene Oxide Nanoparticles and Kaolinite Colloids in Porous Media. Transport in Porous Media, 2017, 119, 181-204.	2.6	80
34	Experimental investigation of the effect of carbon dioxide on Pseudomonas putida biofilms in a two-dimensional glass network micromodel. International Journal of Greenhouse Gas Control, 2016, 46, 240-247.	4.6	3
35	Cotransport of clay colloids and viruses through water-saturated vertically oriented columns packed with glass beads: Gravity effects. Science of the Total Environment, 2016, 545-546, 210-218.	8.0	54
36	Colloid particle sizeâ€dependent dispersivity. Water Resources Research, 2015, 51, 4668-4683.	4.2	107

#	Article	IF	Citations
37	Transport of Human Adenoviruses in Water Saturated Laboratory Columns. Food and Environmental Virology, 2015, 7, 122-131.	3.4	17
38	Interaction of human adenoviruses and coliphages with kaolinite and bentonite. Science of the Total Environment, 2015, 517, 86-95.	8.0	52
39	Interaction Between Graphene Oxide Nanoparticles and Quartz Sand. Environmental Science & Technology, 2015, 49, 13413-13421.	10.0	93
40	Modeling dense-colloid and virus cotransport in three-dimensional porous media. Journal of Contaminant Hydrology, 2015, 181, 102-113.	3.3	44
41	Special Issue on fate and transport of biocolloids and nanoparticles in soil and groundwater systems. Journal of Contaminant Hydrology, 2015, 181, 1-2.	3.3	2
42	Characterization of TiO2 nanoparticle suspensions in aqueous solutions and TiO2 nanoparticle retention in water-saturated columns packed with glass beads. Chemical Engineering Journal, 2015, 262, 823-830.	12.7	39
43	Experimental investigation of virus and clay particles cotransport in partially saturated columns packed with glass beads. Journal of Colloid and Interface Science, 2015, 440, 140-150.	9.4	60
44	Biosorption of Cu2+ and Ni2+ by Arthrospira platensis with different biochemical compositions. Chemical Engineering Journal, 2015, 259, 806-813.	12.7	74
45	Virus attachment onto quartz sand: Role of grain size and temperature. Journal of Environmental Chemical Engineering, 2014, 2, 796-801.	6.7	40
46	Mathematical modeling of colloid and virus cotransport in porous media: Application to experimental data. Advances in Water Resources, 2014, 68, 62-73.	3.8	71
47	Effect of Gravity on Colloid Transport through Water-Saturated Columns Packed with Glass Beads: Modeling and Experiments. Environmental Science & Technology, 2014, 48, 6805-6813.	10.0	150
48	Transport of colloids in unsaturated packed columns: Role of ionic strength and sand grain size. Chemical Engineering Journal, 2013, 232, 237-248.	12.7	101
49	Virus inactivation by high frequency ultrasound in combination with visible light. Colloids and Surfaces B: Biointerfaces, 2013, 107, 174-179.	5.0	31
50	Cotransport of clay colloids and viruses in water saturated porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 416, 56-65.	4.7	108
51	Transport of Pseudomonas putida in a 3-D Bench Scale Experimental Aquifer. Transport in Porous Media, 2012, 94, 617-642.	2.6	29
52	Removal of mercury from aqueous solutions by malt spent rootlets. Chemical Engineering Journal, 2012, 213, 135-141.	12.7	66
53	Virus inactivation in the presence of quartz sand under static and dynamic batch conditions at different temperatures. Journal of Hazardous Materials, 2012, 233-234, 148-157.	12.4	40
54	Assessment of the Effectiveness of a Solar System Heating an Anaerobic Bioreactor. Water, Air, and Soil Pollution, 2012, 223, 1443-1454.	2.4	0

#	ARTICLE	IF	CITATIONS
55	Attachment of bacteriophages MS2 and Î¦X174 onto kaolinite and montmorillonite: Extended-DLVO interactions. Colloids and Surfaces B: Biointerfaces, 2012, 92, 74-83.	5.0	146
56	Erratum to â€˜Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocityâ€™ [Journal of Contaminant Hydrology 126 (2011) 301â€“314]. Journal of Contaminant Hydrology, 2012, 129-130, 10.	3.3	1
57	Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity. Journal of Contaminant Hydrology, 2012, 129-130, 11-24.	3.3	38
58	Cotransport of <i>Pseudomonas putida</i> and kaolinite particles through waterâ€saturated columns packed with glass beads. Water Resources Research, 2011, 47, .	4.2	88
59	Monodisperse and polydisperse colloid transport in water-saturated fractures with various orientations: Gravity effects. Advances in Water Resources, 2011, 34, 1249-1255.	3.8	37
60	Degradation of PAHs by high frequency ultrasound. Water Research, 2011, 45, 2587-2594.	11.3	81
61	Mathematical Modelling of Bacterial Populations in Bio-remediation Processes. , 2011, , .		0
62	Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity. Journal of Contaminant Hydrology, 2011, 126, 301-314.	3.3	77
63	Non-invasive in situ concentration determination of fluorescent or color tracers and pollutants in a glass pore network model. Journal of Hazardous Materials, 2011, 198, 299-306.	12.4	10
64	Attachment of Pseudomonas putida onto differently structured kaolinite minerals: A combined ATR-FTIR and 1H NMR study. Colloids and Surfaces B: Biointerfaces, 2011, 84, 354-359.	5.0	45
65	A new method for in situ concentration measurements in packed-column transport experiments. Chemical Engineering Science, 2010, 65, 4285-4292.	3.8	12
66	Interaction between Viruses and Clays in Static and Dynamic Batch Systems. Environmental Science & Technology, 2010, 44, 4539-4544.	10.0	92
67	Removal of Biocolloids Suspended in Reclaimed Wastewater by Injection into a Fractured Aquifer Model. Environmental Science & Technology, 2010, 44, 971-977.	10.0	47
68	Transport of Viruses Through Saturated and Unsaturated Columns Packed with Sand. Transport in Porous Media, 2009, 76, 121-138.	2.6	56
69	Design and analysis of a solar reactor for anaerobic wastewater treatment. Bioresource Technology, 2008, 99, 7742-7749.	9.6	27
70	Fate and transport of pathogens in a fractured aquifer in the Salento area, Italy. Water Resources Research, 2008, 44, .	4.2	78
71	Experimental investigation of acoustically enhanced colloid transport in water-saturated packed columns. Journal of Colloid and Interface Science, 2007, 308, 200-207.	9.4	27
72	Evaluation of the Factors Controlling the Time-Dependent Inactivation Rate Coefficients of Bacteriophage MS2 and PRD1. Environmental Science & Technology, 2006, 40, 3237-3242.	10.0	49

#	ARTICLE	IF	CITATIONS
73	Dissolution of a multicomponent DNAPL pool in an experimental aquifer. Journal of Hazardous Materials, 2006, 128, 218-226.	12.4	24
74	Acoustically Enhanced Ganglia Dissolution and Mobilization in a Monolayer of Glass Beads. Transport in Porous Media, 2006, 64, 103-121.	2.6	27
75	Contaminant transport in a fracture with spatially variable aperture in the presence of monodisperse and polydisperse colloids. Stochastic Environmental Research and Risk Assessment, 2005, 19, 266-279.	4.0	45
76	Virus fate and transport during artificial recharge with recycled water. Water Resources Research, 2005, 41, .	4.2	57
77	Estimation of time dependent virus inactivation rates by geostatistical and resampling techniques: application to virus transport in porous media. Stochastic Environmental Research and Risk Assessment, 2004, 18, 67-78.	4.0	22
78	An experimental study of acoustically enhanced NAPL dissolution in porous media. AICHE Journal, 2004, 50, 3271-3280.	3.6	14
79	Dense colloid transport in a bifurcating fracture. Journal of Colloid and Interface Science, 2004, 270, 250-254.	9.4	11
80	Longitudinal interpolation of parameters characterizing channel geometry by piece-wise polynomial and universal kriging methods: effect on flow modeling. Advances in Water Resources, 2004, 27, 1061-1073.	3.8	8
81	Non-aqueous phase liquid drop formation within a water saturated fracture. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 240, 199-209.	4.7	7
82	Acoustically Enhanced Multicomponent NAPL Ganglia Dissolution in Water Saturated Packed Columns. Environmental Science & Technology, 2004, 38, 2940-2945.	10.0	18
83	Early breakthrough of colloids and bacteriophage MS2 in a water-saturated sand column. Water Resources Research, 2004, 40, .	4.2	89
84	Title is missing!. Transport in Porous Media, 2003, 51, 191-210.	2.6	26
85	Effective velocity and effective dispersion coefficient for finite-sized particles flowing in a uniform fracture. Journal of Colloid and Interface Science, 2003, 263, 288-295.	9.4	65
86	Mass transfer coefficient and concentration boundary layer thickness for a dissolving NAPL pool in porous media. Journal of Hazardous Materials, 2003, 97, 245-255.	12.4	41
87	Analytical solutions for monodisperse and polydisperse colloid transport in uniform fractures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 226, 101-118.	4.7	39
88	Measuring and modeling the dissolution of nonideally shaped dense nonaqueous phase liquid pools in saturated porous media. Water Resources Research, 2002, 38, 8-1-8-14.	4.2	19
89	Bootstrap estimation of the mass transfer coefficient of a dissolving nonaqueous phase liquid pool in porous media. Water Resources Research, 2002, 38, 8-1-8-6.	4.2	17
90	Experimental investigation of acoustically enhanced solute transport in porous media. Geophysical Research Letters, 2002, 29, 5-1-5-4.	4.0	33

#	ARTICLE	IF	CITATIONS
91	Dissolution of a well-defined trichloroethylene pool in saturated porous media: experimental results and model simulations. Water Research, 2002, 36, 3911-3918.	11.3	20
92	Dissolution of nonaqueous phase liquid pools in anisotropic aquifers. Stochastic Environmental Research and Risk Assessment, 2001, 15, 33-46.	4.0	11
93	An efficient particle tracking equation with specified spatial step for the solution of the diffusion equation. Chemical Engineering Science, 2001, 56, 6535-6543.	3.8	30
94	Title is missing!. Transport in Porous Media, 2000, 38, 167-187.	2.6	36
95	Title is missing!. Transport in Porous Media, 2000, 38, 93-115.	2.6	30
96	Transport of polydisperse colloids in a saturated fracture with spatially variable aperture. Water Resources Research, 2000, 36, 1457-1465.	4.2	67
97	Dissolution of a well-defined trichloroethylene pool in saturated porous media: Experimental design and aquifer characterization. Water Resources Research, 2000, 36, 1687-1696.	4.2	45
98	Virus transport in unsaturated porous media. Water Resources Research, 2000, 36, 173-179.	4.2	57
99	Cosolvent-Water Displacement in One-Dimensional Soil Column. Journal of Environmental Engineering, ASCE, 1999, 125, 87-91.	1.4	12
100	Analytical models for virus adsorption and inactivation in unsaturated porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 155, 189-197.	4.7	26
101	Analytical solutions for solute transport in saturated porous media with semi-infinite or finite thickness. Advances in Water Resources, 1999, 22, 507-519.	3.8	40
102	Mass transfer correlations for nonaqueous phase liquid pool dissolution in saturated porous media. Water Resources Research, 1999, 35, 449-459.	4.2	52
103	Transport of polydisperse colloid suspensions in a single fracture. Water Resources Research, 1999, 35, 707-718.	4.2	57
104	Three-Dimensional Analytical Models for Virus Transport in Saturated Porous Media. Transport in Porous Media, 1998, 30, 87-112.	2.6	59
105	Contaminant transport resulting from multicomponent nonaqueous phase liquid pool dissolution in three-dimensional subsurface formations. Journal of Contaminant Hydrology, 1998, 31, 1-21.	3.3	43
106	NAPL Pool Dissolution in Stratified and Anisotropic Porous Formations. Journal of Environmental Engineering, ASCE, 1998, 124, 851-862.	1.4	27
107	Modeling colloid transport and deposition in saturated fractures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 121, 189-202.	4.7	60
108	Unsaturated flow in a quasi-three-dimensional fractured medium with spatially variable aperture. Water Resources Research, 1996, 32, 1531-1540.	4.2	20

#	Article	IF	Citations
109	One-Dimensional Virus Transport in Porous Media With Time-Dependent Inactivation Rate Coefficients. Water Resources Research, 1996, 32, 2607-2611.	4.2	64
110	One-dimensional virus transport in homogeneous porous media with time-dependent distribution coefficient. Journal of Hydrology, 1996, 185, 199-219.	5.4	75
111	Modeling of colloid and colloid-facilitated contaminant transport in a two-dimensional fracture with spatially variable aperture. Transport in Porous Media, 1995, 20, 197-221.	2.6	62
112	Numerical modeling of three-dimensional contaminant migration from dissolution of multicomponent NAPL pools in saturated porous media. Environmental Geology, 1995, 26, 157-165.	1.2	36
113	Analysis of a model for contaminant transport in fractured media in the presence of colloids. Journal of Hydrology, 1995, 165, 261-281.	5.4	67
114	Effective parameters for flow in saturated heterogeneous porous media. Journal of Hydrology, 1995, 170, 181-197.	5.4	12
115	Three-Dimensional Analytical Models of Contaminant Transport From Nonaqueous Phase Liquid Pool Dissolution in Saturated Subsurface Formations. Water Resources Research, 1995, 31, 1137-1145.	4.2	73
116	Analytical Models for One-Dimensional Virus Transport in Saturated Porous Media. Water Resources Research, 1995, 31, 1429-1437.	4.2	68
117	Analytical solutions for one-dimensional colloid transport in saturated fractures. Advances in Water Resources, 1994, 17, 283-296.	3.8	54
118	Modeling of contaminant transport resulting from dissolution of nonaqueous phase liquid pools in saturated porous media. Transport in Porous Media, 1994, 16, 125-145.	2.6	53
119	Artificial tracers for geothermal reservoir studies. Environmental Geology and Water Sciences, 1993, 22, 60-70.	0.4	32
120	A three-dimensional steady-state atmospheric dispersion-deposition model for emissions from a ground-level area source. Atmospheric Environment Part A General Topics, 1992, 26, 747-757.	1.3	25
121	Modeling the emission and dispersion of volatile organics from surface aeration wastewater treatment facilities. Water Research, 1992, 26, 1045-1052.	11.3	9
122	Macrodispersion of sorbing solutes in heterogeneous porous formations with spatially periodic retardation factor and velocity field. Water Resources Research, 1992, 28, 1517-1529.	4.2	40
123	Generalized Taylor-Aris moment analysis of the transport of sorbing solutes through porous media with spatially-periodic retardation factor. Transport in Porous Media, 1992, 7, 163-185.	2.6	52
124	Comment on "An Analytical Solution for One-Dimensional Transport in Heterogeneous Porous Media" by S. R. Yates. Water Resources Research, 1991, 27, 2163-2163.	4.2	8
125	Analysis of one‐dimensional solute transport through porous media with spatially variable retardation factor. Water Resources Research, 1990, 26, 437-446.	4.2	118
126	One‐dimensional solute transport in porous media with partial well‐to‐well recirculation: Application to field experiments. Water Resources Research, 1990, 26, 1189-1195.	4.2	5

#	Article	IF	Citations
127	One-dimensional solute transport in porous media with well-to-well recirculation: Application to field experiments. Water Resources Research, 1990, 26, 1189-1195.	4.2	28
128	Investigation of soluble indium chelates for groundwater and hydrothermal fluid tracing. Applied Geochemistry, 1987, 2, 329-335.	3.0	9
129	Nonaqueous Phase Liquid Pool Dissolution in Subsurface Formations. , 0, , 97-132.		1