

**Constantinos V. Chrysikopoulos**

Civil Infrastructure and Environmental Engineering

KALIFA UNIVERSITY, ABU DHABI, UAE

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School of Chemical and Environmental Engineering

TECHNICAL UNIVERSITY OF CRETE, CHANIA, GREECE

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EDUCATION**Ph.D.:** Civil Engineering (Environmental Engineering & Science), 1991

Dissertation Title: "Solute transport in porous media: Investigation of well-to-well recirculation and analysis of spatially-variable retardation"

Dissertation Advisors: Paul V. Roberts & Peter K. Kitanidis

Minor: Petroleum Engineering

Minor Advisor: Henry J. Ramey, Jr.

STANFORD UNIVERSITY

Engineer Degree: Civil Engineering (Geothermal Program), 1986

Thesis Title: "Chelated indium activable tracers for geothermal reservoirs"

Thesis Advisor: Paul Kruger

STANFORD UNIVERSITY

Master of Science: Chemical Engineering, 1984

STANFORD UNIVERSITY

Bachelor of Science: Chemical Engineering, 1982

UNIVERSITY OF CALIFORNIA, SAN DIEGO

ACADEMIC EXPERIENCE

(2022–) PROFESSOR, Civil Infrastructure and Environmental Engineering, Khalifa University, UAE.

(2013–) PROFESSOR, School of Chemical and Environmental Eng., Technical University of Crete, Greece.

(2004–13) PROFESSOR, Civil Engineering, University of Patras, Greece.

(2001–04) PROFESSOR, Civil and Environmental Engineering, UC Irvine, USA.

(1996–01) ASSOCIATE PROFESSOR, Civil and Environmental Engineering, UC Irvine, USA.

(1991–96) ASSISTANT PROFESSOR, Civil and Environmental Engineering, UC Irvine, USA.

(1990–91) POSTDOCTORAL FELLOW, Civil and Environmental Engineering, Stanford University, USA.

GUEST EDITOR[4] Guest Editor in: Special section on emerging particles and biocolloids in terrestrial and aquatic systems, *Vadose Zone Journal*, 22, e20247, 2023.[3] Guest Editor in special issue on: Advances in Pollutant Transport in Critical Zone Environments, *Frontiers in Water*, 3:693102, doi:10.3389/frwa.2021.693102, 2021.[2] Guest Editor in special issue on: Fate and Transport of Biocolloids and Nanoparticles in Soil and Groundwater Systems, *Journal of Contaminant Hydrology*, 181, 2015.[1] Guest Editor in special double issue: *Transport in Porous Media*, 38(1/2), 2000.**ASSOCIATE EDITOR**[2] *Frontiers in Water – Environment Water Quality*, 2021–present.[1] *Clean Technologies*, 2019–present.

STATISTICS AT A GLANCE**Total number of articles published in peer review journals: **125h*-index: **42** (Web of Science), **44** (Scopus), **53** (Google Scholar)Times cited: **4458** (Web of Science), **4808** (Scopus), **6430** (Google Scholar)URLs: [[Google Scholar](#)], [[Scopus](#)], [[Web of Science](#)][[ORCID](#)], [[TUCeEL](#)]

MEMBER EDITORIAL BOARD

- [4] Water, 2018–present.
 [3] Frontiers in Water – Water Quality, 2018–2021.
 [2] J Multidisciplinary Scientific Journal, 2018–present.
 [1] International Journal of Earth & Environmental Sciences, 2015–present.

TEACHING EXPERIENCE

UC Irvine (1991–2004)

- Introduction to Fluid Mechanics (CEE170A: Undergraduate Course)
 Groundwater Hydrology (CEE172: Undergraduate Course)
 Stochastic Geohydrology (CEE272: Graduate Course)
 Transport Phenomena in Saturated Porous Media (CEE274A: Graduate Course)
 Transport Phenomena in Unsaturated Porous Media and Fractures (CEE274B: Graduate Course)
 Mathematical Methods in Engineering Analysis (CEE283: Graduate Course)

U Patras (2004–2013)

- Water Quality (Undergraduate Course)
 Special Topics in Environmental Engineering (Undergraduate Course)
 Contaminant Transport in Porous Media (Graduate Course)

Technical University of Crete (2013–present)

- Wastewater Treatment (Undergraduate Course)
 Heat and Mass Transfer (Undergraduate Course)
 Contaminant Transport in Porous Media (Graduate Course)

Hellenic Open University (2006–2018, 2020)

- Wastewater Treatment (Graduate Course)

Khalifa University (2022–present)

- Groundwater Flow and Contaminant Transport (Graduate Course)
 Groundwater Hydrology (Undergraduate Course)
 Engineering Applied Mathematics (Graduate Course)

SELECTED RESEARCH EXPERIENCE

- (2019–) Estimation of pharmaceuticals in municipal sewage.
 (2018–) Use of nanoparticles against soil-borne plant pathogens.
 (2012–) Fate and transport of biocolloids and nanoparticles in groundwater.
 (2012–15) Investigation of the consequences of CO₂ leakage on the quality of potable groundwater and aquifer properties.
 (2011–14) Interaction between biocolloids and clays under various static and dynamic conditions.
 (2010–12) New methods for *in situ* concentration measurements.
 (2010–11) Degradation of PAHs and inactivation of biocolloids by high frequency ultrasound.
 (2009–12) Theoretical and experimental investigation of the co-transport of biocolloids and clays in water saturated porous media.
 (2006–10) Groundwater contamination by viruses during infiltration of recycled water. Removal of biocolloids suspended in reclaimed wastewater by injection in fractured aquifers.
 (2005–08) Reduction of environmental pollution with the employment of solar powered reactor for anaerobic wastewater treatment.
 (2004–07) Acoustically enhanced contaminant and colloid migration in porous media.
 (2001–06) Field-scale investigation of virus fate and transport during aquifer recharge with recycled water.
 (1999–05) Investigation of the effects of acoustic pressure waves in aquifer remediation and mobilization of entrapped organic liquids.
 (1997–04) Modeling the transport of polydisperse colloids in fractures with uniform as well as spatially variable aperture.

- (1997–03) Fate and transport of viruses in unsaturated porous media, accounting for soil moisture fluctuations. Development of analytical models for virus adsorption and inactivation in unsaturated porous media.
- (1995–02) Experimental determination of dissolution kinetics of single- and multi-component nonaqueous phase liquid pools in saturated three-dimensional porous media. Development of mass transfer correlations applicable to dissolving nonaqueous phase liquid pools in saturated porous media
- (1992–97) Modeling the transport of viruses in physicochemically heterogeneous multidimensional porous media, accounting for first-order inactivation of suspended and adsorbed (or filtered) viruses with different inactivation constants, and nonequilibrium reversible adsorption which is applicable to viruses behaving as solutes or irreversible filtration which is suitable for viruses behaving as colloids.
- (1992–95) Modeling of contaminant transport in saturated multi-dimensional fractured media in the presence of colloids, with emphasis on the effects of spatially variable fracture aperture.
- (1991–94) Mathematical modeling of contaminant migration from single- and multi-component nonaqueous phase liquid pools in multi-dimensional, saturated, homogeneous porous media.
- (1990–91) Atmospheric dispersion modeling of volatile organic emissions from aeration of contaminated groundwater treatment facilities, with emphasis on the effects of wind velocity gradients close to the ground and the magnitude of eddy diffusion in the boundary layer as well as the stability of the atmosphere.
- (1988–90) Development of an analytical solution of the one-dimensional stochastic advection-dispersion model that relates the ensemble solute concentration to the statistics of a stationary, spatially-variable retardation factor. Analysis of the impact of spatially-variable sorption on solute movement and spreading in porous media. Investigation of the macroscopic behavior of sorbing solute transport in three-dimensional formations with spatially-periodic geochemical characteristics and velocity field.
- (1986–88) Pilot plant operation for *in-situ* biotransformation and mineralization field tests of chlorinated solvents. Development of a solute transport model incorporating well-to-well recirculation. Exploration of parameter estimation techniques for solute transport in porous media.
- (1984–86) Identification of activable tracers with good activation analysis sensitivity retaining most of the advantages of radioactive tracers without health or environmental risk and low natural background concentration for groundwater and hydrothermal studies; evaluation of their thermal stability and sorption characteristics.

AWARDS AND HONORS

- UCOWR Best Dissertation Award, as Research Advisor to Youn Sim, 1998
- UCI Pregraduate Mentorship Award, as Research Advisor to Olga Reyes, 1997
- UCI Faculty Career Development Award, 1996
- UCI “Celebration of Teaching” Undergraduate Teaching Award, 1996
- UCOWR Best Dissertation Award, as Research Advisor to Assem Abdel-Salam, 1996
- CEE Outstanding Teaching Award, 1995
- UCI Research Faculty Fellowship, 1993, 1995
- Leon Reynolds Foundation Fellowship, 1990
- Marx Moreno Foundation Fellowship, 1989
- San Jose Branch ASCE Award, 1987

PUBLICATIONS

(a) Publications in Peer Review Journals:

- A126 KATZOURAKIS, V.E., and C.V. CHRYSIKOPOULOS, Investigating the effects of initial concentration and population distribution on the transport of aggregating nanoparticles in porous media, *Advances in Water Resources*, 178, 104475, doi.org/10.1016/j.advwatres.2023.104475, 2023.
- A125 STEFANAROU, A.S., V.E. KATZOURAKIS, F. FU, A.A. MALANDRAKIS, and C.V. CHRYSIKOPOULOS, Transport of thiophanate methyl in porous media in the presence of titanium dioxide nanoparticles, *Water*, 15(7), 1415, doi:10.3390/w13101420, 2023.
- A124 CHRYSIKOPOULOS, C.V., and T.V. FOUNTOULI, Cotransport of titanium dioxide nanoparticles and formaldehyde in saturated and unsaturated columns packed with quartz sand, *Vadose Zone Journal*, 22, e20175, doi:10.1002/vzj2.20175, 2023.
- A123 SUN, G., C.V. CHRYSIKOPOULOS, and F. FU, 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*, 2(8), 1320–1331, doi.org/10.1021/acsestwater.2c00014, 2022.

- A122 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Metal nanoparticles against fungicide resistance: alternatives or partners?, *Pest Management Science*, doi.10.1002/ps.7014, 2022.
- A121 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Zinc nanoparticles: Mode of action and efficacy against boscalid-resistant *Alternaria alternata* isolates, *Science of the Total Environment*, 829, 154638, doi.org/10.1016/j.scitotenv.2022.154638, 2022.
- A120 Zheng, L., L. WANG, S.C. JAMES, and C.V. CHRYSIKOPOULOS, 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*, 644, 128822, doi.org/10.1016/j.colsurfa.2022.128822, 2022.
- A119 SYNGOUNA, V.I., K.I. KOURTAKI, M.P. GEORGOPOULOU, and C.V. CHRYSIKOPOULOS, 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*, 29, 19199–19211, doi.org/10.1007/s11356-021-17086-1, 2022.
- A118 KATSIKAROS, A.G., and C.V. CHRYSIKOPOULOS, Occurrence and distribution of pharmaceuticals and personal care products (PPCPs) detected in lakes around the world - A review, *Environmental Advances*, 6, 100131, doi.org/10.1016/j.envadv.2021.100131, 2021.
- A117 STEFANAROU, A.S., and C.V. CHRYSIKOPOULOS, Interaction of titanium dioxide with formaldehyde in the presence of quartz sand under static and dynamic conditions, *Water*, 13(10), 1420, doi:10.3390/w13101420, 2021.
- A116 MALANDRAKIS, A.A., N. KAVROULAKIS, M. AVRAMIDOU, K.K. PAPAPOPOULOU, G. TSANIKIDIS, and C.V. CHRYSIKOPOULOS, Metal nanoparticles: Phytotoxicity on tomato and effect on symbiosis with the *Fusarium solani* FsK strain, *Science of the Total Environment*, 787, 147606, doi.org/10.1016/j.scitotenv.2021.147606, 2021.
- A115 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Copper nanoparticles against benzimidazole-resistant *Monilinia fructicola* field isolates, *Pesticide Biochemistry and Physiology*, 173, 104796, doi.org/10.1016/j.pestbp.2021.104796, 2021.
- A114 KATZOURAKIS, V.E., and C.V. CHRYSIKOPOULOS, Modeling the transport of aggregating nanoparticles in porous media, *Water Resources Research*, 57(1), e2020WR027946, doi:10.1029/2020WR027946, 2021.
- A113 FOUNTOULI, T.V., and C.V. CHRYSIKOPOULOS, Effect of clay colloid particles on formaldehyde transport in unsaturated porous media, *Water*, 12(12), 3541, doi:10.3390/w12123541, 2020.
- A112 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Use of silver nanoparticles to counter fungicide-resistance in *Monilinia fructicola*, *Science of the Total Environment*, 747, 135557, doi.org/10.1016/j.scitotenv.2020.141287, 2020.
- A111 GEORGOPOULOU, M.P., V.I. SYNGOUNA, and C.V. CHRYSIKOPOULOS, Influence of graphene oxide nanoparticles on the transport and cotransport of biocolloids in saturated porous media, *Colloids and Surfaces B: Biointerfaces*, 189, 110841, doi.org/10.1016/j.colsurfb.2020.110841, 2020.
- A110 KATSIKAROS, A.G., and C.V. CHRYSIKOPOULOS, Estimation of urine volume in municipal sewage originating from patients receiving antibiotics at a private clinic in Crete, Greece, *Science of the Total Environment*, 705, 134858, doi.org/10.1016/j.scitotenv.2019.134858, 2020.
- A109 SYNGOUNA, V.I., G.I. GIANNADAKIS, and C.V. CHRYSIKOPOULOS, Interaction of graphene oxide nanoparticles with quartz sand and montmorillonite colloids, *Environmental Technology*, 41(9), 1127–1138, doi:10.1080/09593330.2018.1521876, 2020.
- A108 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Synergy between Cu-NPs and fungicides against *Botrytis cinerea*, *Science of the Total Environment*, 703, 135557, doi.org/10.1016/j.scitotenv.2019.135557, 2020.
- A107 LOUKOPOULOS-KOUSIS, V., and C.V. CHRYSIKOPOULOS, Use of GreenZyme® for remediation of porous media polluted with jet fuel JP-5, *Environmental Technology*, 41(3), 277–286, doi:10.1080/09593330.2018.1497092, 2020.
- A106 KATZOURAKIS, V.E. and C.V. CHRYSIKOPOULOS, Two-site colloid transport with reversible and irreversible attachment: Analytical solutions, *Advances in Water Resources*, 130, 29–36, https://doi.org/10.1016/j.advwaters.2019.05.026, 2019.
- A105 SYNGOUNA, V.I., and C.V. CHRYSIKOPOULOS, Bacteriophage MS2 and titanium dioxide heteroaggregation: Effects of ambient light and the presence of quartz sand, *Colloids and Surfaces B: Biointerfaces*, 180, 281–288, doi:10.1016/j.colsurfb.2019.04.052, 2019.
- A104 MALGARESI, G., H. ZHANG, C.V. CHRYSIKOPOULOS, and P. BEDRIKOVETSKY, Cotransport of suspended colloids and nanoparticles in porous media, *Transport in Porous Media*, 128(1), 153–177, doi:10.1007/s11242-019-01239-5, 2019.

- A103 MALANDRAKIS, A.A., N. KAVROULAKIS, and C.V. CHRYSIKOPOULOS, Use of copper, silver and zinc nanoparticles against foliar and soil-borne plant pathogens, *Science of the Total Environment*, 670, 292–299, doi:10.1016/j.scitotenv.2019.03.210, 2019.
- A102 FOUNTOULI, T.V., C.V. CHRYSIKOPOULOS, and I.K. TSANIS, Effect of salinity on formaldehyde interaction with quartz sand and kaolinite colloid particles: batch and column experiments, *Environmental Earth Sciences*, 78, 152, doi:10.1007/s12665-019-8147-x, 2019.
- A101 GEORGOPOULOU, M.P., and C.V. CHRYSIKOPOULOS, Evaluation of carbon nanotubes and quartz sand for the removal of formaldehyde–(2,4-dinitrophenylhydrazine) from aqueous solutions, *Industrial & Engineering Chemistry Research*, 57(49), 17003–17012, doi:10.1021/acs.iecr.8b03996, 2018.
- A100 JAMES, S.C., L. WANG, and C.V. CHRYSIKOPOULOS, Modeling colloid transport in fractures with spatially variable aperture and surface attachment, *Journal of Hydrology*, 566, 735–742, dx.doi.org/10.1016/j.jhyrol.2018.09.047, 2018.
- A99 KATZOURAKIS, V.E. and C.V. CHRYSIKOPOULOS, Impact of spatially variable collision efficiency on the transport of biocolloids in geochemically heterogeneous porous media, *Water Resources Research*, 54, doi:10.1029/2017WR021996, 2018.
- A98 FOUNTOULI, T.V. and C.V. CHRYSIKOPOULOS, Adsorption of pharmaceuticals, acyclovir and fluconazole onto quartz sand under static and dynamic conditions at different temperatures, *Environmental Engineering Science*, 35(9), 909–917, doi:org/10.1089/ees.2017.0499, 2018.
- A97 CHRYSIKOPOULOS, C.V., N.P. SOTIRELIS, and N.G. KALLITHRAKAS-KONTOS, Cotransport of graphene oxide nanoparticles and kaolinite colloids in porous media, *Transport in Porous Media*, 119, 181–202, doi:10.1007/s11242-017-0879-z, 2017.
- A96 SYNGOUNA, V.I., C.V. CHRYSIKOPOULOS, P. KOKKINOS, M.A. TSELEPI, and A. VANTARAKIS, Cotransport of human adenoviruses with clay colloids and TiO₂ nanoparticles in saturated porous media: Effect of flow velocity, *Science of the Total Environment*, 598, 160–167, doi:10.1016/j.scitotenv.2017.04.082, 2017.
- A95 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, 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*, 497, 117–125, doi:10.1016/j.jcis.2017.02.059, 2017.
- A94 KATZOURAKIS, V.E. and C.V. CHRYSIKOPOULOS, Fitting the transport and attachment of dense biocolloids in one-dimensional porous media: ColloidFit, *Groundwater*, 55(2), 156–159, doi:10.1111/gwat.12501, 2017.
- A93 SOTIRELIS, N.P. and C.V. CHRYSIKOPOULOS, Heteroaggregation of graphene oxide nanoparticles and kaolinite colloids, *Science of the Total Environment*, 579, 736–744, doi:10.1016/j.scitotenv.2016.11.034, 2017.
- A92 SYGOUNI, V., I.D. MANARIOTIS, and C.V. CHRYSIKOPOULOS, Experimental investigation of the effect of carbon dioxide on *Pseudomonas putida* biofilms in a two-dimensional glass network micro-model, *International Journal of Greenhouse Gas Control*, 46, 240–247, doi:10.1016/j.ijggc.2016.01.016, 2016.
- A91 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Cotransport of clay colloids and viruses through water-saturated vertically oriented columns packed with glass beads: Gravity effects, *Science of the Total Environment*, 545–546, 210–218, doi:10.1016/j.scitotenv.2015.12.091, 2016.
- A90 SYGOUNI, V., G.C. DIMADIS, and C.V. CHRYSIKOPOULOS, Assessment of CO₂ injection in fractured calcite rock clogged by *Pseudomonas putida* biofilm, *International Journal of Green Technology*, 1, 65–72, 2015.
- A89 SOTIRELIS, N.P. and C.V. CHRYSIKOPOULOS, Interaction between graphene oxide nanoparticles and quartz sand, *Environmental Science and Technology*, 49(22), 13413–13421, doi:10.1021/acs.est.5b03496, 2015.
- A88 KATZOURAKIS, V.E., and C.V. CHRYSIKOPOULOS, Modeling dense-colloid and virus cotransport in three-dimensional porous media, *Journal of Contaminant Hydrology*, 181, 102–113, doi:10.1016/j.jconhyd.2015.05.010, 2015.
- A87 CHRYSIKOPOULOS, C.V. and V.E. KATZOURAKIS, Colloid particle size-dependent dispersivity, *Water Resources Research*, 51, 4668–4683, doi:10.1002/2014WR016094, 2015.
- A86 KOKKINOS, P., V.I. SYNGOUNA, M.A. TSELEPI, M. BELLOU, C.V. CHRYSIKOPOULOS, and A. VANTARAKIS, Transport of human adenoviruses in water saturated laboratory columns, *Food and Environmental Virology*, 7, 122–131, doi:10.1007/s12560-014-9179-8, 2015.
- A85 BELLOU, M.I., V.I. SYNGOUNA, M.A. TSELEPI, P. KOKKINOS, S.C. PAPANRODOPOULOS, A. VANTARAKIS, AND C.V. CHRYSIKOPOULOS, Interaction of human adenoviruses and coliphages with kaolinite and bentonite, *Science of the Total Environment*, 517, 86–95, doi:10.1016/j.scitotenv.2015.02.036, 2015.

- A84 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Experimental investigation of virus and clay particles cotransport in partially saturated columns packed with glass beads, *Journal of Colloid and Interface Science*, 440, 140–150, doi:10.1016/j.jcis.2014.10.066, 2015.
- A83 SYGOUNI, V. and C.V. CHRYSIKOPOULOS, Characterization of TiO₂ nanoparticle suspensions in aqueous solutions and TiO₂ nanoparticle retention in water-saturated columns packed with glass beads, *Chemical Engineering Journal*, 262, 823–830, doi:10.1016/j.cej.2014.10.044, 2015.
- A82 MARKOU, G., D. MITROGIANNIS, A. ÇELEKLI, H. BOZKURT, D. GEORGAKAKIS, and C.V. CHRYSIKOPOULOS, Biosorption of Cu²⁺ and Ni²⁺ by *Arthrospira platensis* with different biochemical composition, *Chemical Engineering Journal*, 259, 806–813, doi:10.1016/j.cej.2014.08.037, 2015.
- A81 CHRYSIKOPOULOS, C.V. and V.I. SYNGOUNA, Effect of gravity on colloid transport through water-saturated columns packed with glass beads: Modeling and experiments, *Environmental Science and Technology*, 48, 6805–6813, doi:10.1021/es501295n, 2014.
- A80 KATZOURAKIS, V.E. and C.V. CHRYSIKOPOULOS, Mathematical modeling of colloid and virus cotransport in porous media: Application to experimental data, *Advances in Water Resources*, 68, 62–73, doi:10.1016/j.advwatres.2014.03.001, 2014.
- A79 CHRYSIKOPOULOS, C.V. and A.F. ARAVANTINO, Virus attachment onto quartz sand: Role of grain size and temperature, *Journal of Environmental Chemical Engineering*, 2, 796–801, doi:10.1016/j.jece.2014.01.025, 2014.
- A78 MITROPOULOU, P.N., V.I. SYNGOUNA, and C.V. CHRYSIKOPOULOS, Transport of colloids in unsaturated packed columns: Role of ionic strength and sand grain size, *Chemical Engineering Journal*, 232, 237–248, doi:10.1016/j.cej.2013.07.093, 2013.
- A77 CHRYSIKOPOULOS, C.V., I.D. MANARIOTIS, and V.I. SYNGOUNA, Virus inactivation by high frequency ultrasound in combination with visible light, *Colloids and Surfaces B: Biointerfaces*, 107, 174–179, doi:10.1016/j.colsurfb.2013.01.038, 2013.
- A76 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Cotransport of clay colloids and viruses in water saturated porous media, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 416, 56–65, doi:10.1016/j.colsurfa.2012.10.018, 2013.
- A75 ANAGNOSTOPOULOS, V.A., I.D. MANARIOTIS, H. K. KARAPANAGIOTI, and C.V. CHRYSIKOPOULOS, Removal of mercury from aqueous solutions by malt spent rootlets, *Chemical Engineering Journal*, 213, 135–141, doi:10.1016/j.cej.2012.09.074, 2012.
- A74 CHRYSIKOPOULOS, C.V. and A.F. ARAVANTINO, Virus inactivation in the presence of quartz sand under static and dynamic batch conditions at different temperatures, *Journal of Hazardous Materials*, 233–234, 148–157, doi:10.1016/j.jhazmat.2012.07.002, 2012.
- A73 CHRYSIKOPOULOS, C.V., V.I. SYNGOUNA, I.A. VASILIOU, and V.E. KATZOURAKIS, Transport of *Pseudomonas putida* in a three-dimensional bench scale experimental aquifer, *Transport in Porous Media*, 94, 617–642, doi:10.1007/s11242-012-0015-z, 2012.
- A72 YIANNOPOULOS, A.Ch., I.D. MANARIOTIS, and C.V. CHRYSIKOPOULOS, Assessment of the effectiveness of a solar system heating an anaerobic bioreactor, *Water, Air, and Soil Pollution*, 223, 1443–1454, doi:10.1007/s11270-011-0956-9, 2012.
- A71 CHRYSIKOPOULOS, C.V. and V.I. SYNGOUNA, Attachment of bacteriophages MS2 and ΦX174 onto kaolinite and montmorillonite: extended-DLVO interactions, *Colloids and Surfaces B: Biointerfaces*, 92, 74–83, doi:10.1016/j.colsurfb.2011.11.028, 2012.
- A70 CHRYSIKOPOULOS, C.V., C.C. PLEGA, and V.E. KATZOURAKIS, Non-invasive *in situ* concentration determination of fluorescent or color tracers and pollutants in a glass pore network model, *Journal of Hazardous Materials*, 189, 299–306, doi:10.1016/j.jhazmat.2011.10.042, 2011.
- A69b SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity, *Journal of Contaminant Hydrology*, 129–130, 11–24, doi:10.1016/j.jconhyd.2012.01.010, 2012.
- A69 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Transport of biocolloids in water saturated columns packed with sand: Effect of grain size and pore water velocity, *Journal of Contaminant Hydrology*, 126, 301–314, doi:10.1016/j.jconhyd.2011.09.007, 2011.
- A68 JAMES, S.C. and C.V. CHRYSIKOPOULOS, Monodisperse and polydisperse colloid transport in water-saturated fractures with various orientations: Gravity effects, *Advances in Water Resources*, 34, 1249–1255, doi:10.1016/j.advwatres.2011.06.001, 2011.
- A67 VASILIOU, I.A., D. PAPOULIS, C.V. CHRYSIKOPOULOS, D. PANAGIOTARAS, E. KARAKOSTA, M. FARDIS, and G. PAPAVALASSIOU, Attachment of *Pseudomonas putida* onto differently structured kaolinite minerals: A combined ATR-FTIR and ¹H NMR study, *Colloids and Surfaces B: Biointerfaces*, 84(2), 354–359, doi:10.1016/j.colsurfb.2011.01.026, 2011.
- A66 MANARIOTIS, I.D., H. K. KARAPANAGIOTI, and C.V. CHRYSIKOPOULOS, Degradation of PAHs by high frequency ultrasound, *Water Research*, 45, 2587–2594, doi:10.1016/j.watres.2011.02.009, 2011.

- A65 VASILIADOU, I.A. and C.V. CHRYSIKOPOULOS, Cotransport of *Pseudomonas putida* and kaolinite particles through water saturated columns packed with glass beads, *Water Resources Research*, 47(2), W02543, doi:10.1029/2010WR009560, 2011.
- A64 SYNGOUNA, V.I. and C.V. CHRYSIKOPOULOS, Interaction between viruses and clays in static and dynamic batch systems, *Environmental Science and Technology*, 44(12), 4539–4544, doi:10.1021/es100107a, 2010.
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- F1 CHRYSIKOPOULOS, C.V. and P. KRUGER, Activable tracers, in *Geothermal Reservoir Engineering Research at Stanford University*, pp. 41–44, Stanford Geothermal Program Tech. Rep. SGP-TR-89, 1984.

(g) Greek Conferences & Symposia:

- G7 KATZOURAKΗΣ, Β.Ε. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Αριθμητική μοντελοποίηση συμμεταφοράς κολλοειδών και ιών σε πορώδη μέσα, 9^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής: Η Συμβολή της Χημικής Μηχανικής στην Αειφόρο Ανάπτυξη, Αθήνα, EN0363, 2013.
- G6 ΠΛΕΓΑ, Χ.Χ., Β.Ε. ΚΑΤΖΟΥΡΑΚΗΣ και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Προσδιορισμός της συγκέντρωσης ρύπων μέσα σε δισδιάστατο πορώδες μέσο, 2^ο Κοινό Συνέδριο της Ελληνικής Υδροτεχνικής Ένωσης (ΕΥΕ) & της Ελληνικής Επιτροπής Διαχείρισης Υδατικών Πόρων (ΕΕΔΥΠ), Ολοκληρωμένη Διαχείριση Υδατικών Πόρων προς την Αειφόρο Ανάπτυξη, Πάτρα, 11-13 Οκτωβρίου, 2012.
- G5 ΣΥΓΓΟΥΝΑ, Β.Η. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Μεταφορά ιών σε κορεσμένα πορώδη μέσα: Επίδραση διαφόρων φυσικοχημικών παραμέτρων (μέγεθος πορώδους μέσου, ενδοπορώδης ταχύτητα, παρουσία κολλοειδών), 2^ο Κοινό Συνέδριο της Ελληνικής Υδροτεχνικής Ένωσης (ΕΥΕ) & της Ελληνικής Επιτροπής Διαχείρισης Υδατικών Πόρων (ΕΕΔΥΠ), Ολοκληρωμένη Διαχείριση Υδατικών Πόρων προς την Αειφόρο Ανάπτυξη, Πάτρα, 11-13 Οκτωβρίου, 2012.
- G4 ΒΑΣΙΛΕΙΑΔΟΥ, Ι.Α. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Μελέτη συμμεταφοράς του είδους *Pseudomonas putida* και σωματιδίων καολινίτη σε κορεσμένα πορώδη μέσα, 2^ο Εθνικό Συνέδριο της Επιστημονικής Εταιρίας Μικροβιόκοσμος, Αθήνα, 11-13 Δεκεμβρίου 2009.
- G3 ΠΛΕΓΑ, Χ.Χ. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Πειραματική μελέτη μεταφοράς ρύπων σε πορώδη μέσα, 4^ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Πάτρα, 22-23 Οκτωβρίου 2009.
- G2 ΒΑΣΙΛΕΙΑΔΟΥ, Ι.Α. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Μελέτη μεταφοράς του είδους *Pseudomonas putida* και σωματιδίων καολινίτη σε πορώδη μέσα, 4^ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Πάτρα, 22-23 Οκτωβρίου 2009.

G1 ΣΥΓΓΟΥΝΑ, Β.Η. και Κ.Β. ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Αλληλεπίδραση βιοκολλοειδών (ιών) και πορωδών υλικών (αργίλων) υπό διαφορετικές περιβαλλοντικές συνθήκες, 4^ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Πάτρα, 22-23 Οκτωβρίου 2009.

(h) Books:

- H4 ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Κ.Β., Φαινόμενα Μεταφοράς στο Υπέδαφος και σε Περιβαλλοντικά Συστήματα, Εκδόσεις Τζιόλα, 501 pp., 2020 (ISBN 978-960-418-872-7).
 H3 ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Κ.Β., Εισαγωγή στις Διεργασίες Καθαρισμού Νερού και Λυμάτων, 2^η έκδοση, Εκδόσεις Τζιόλα, 616 pp., 2018 (ISBN 978-960-418-759-1).
 H2 ΧΡΥΣΙΚΟΠΟΥΛΟΣ, Κ.Β., Εισαγωγή στις Διεργασίες Καθαρισμού Νερού και Λυμάτων, Εκδόσεις Τζιόλα, 550 pp., 2013 (ISBN 978-960-418-396-8).
 H1 CHRYSIKOPOULOS, C.V., Notes and Exercises in Engineering Applied Mathematics, Department of Civil and Environmental Engineering University of California, Irvine, CA, 2002.

ADVISEES

Ph.D. Students

(Primary Advisor – TU Crete)

- [13] ANTONIOS G. KATSIKAROS, 2021-present.
 [12] ANASTASIOS A. MALANDRAKIS, 2017-present.
 [11] THEODOSIA V. FOUNTOULI, Fate and behavior of pharmaceuticals and nanoparticles in the subsurface (Τύχη και συμπεριφορά φαρμάκων και νανοσωματιδίων στο υπέδαφος) (2022).

(Primary Advisor - U Patras)

- [10] VASILEIOS E. KATZOURAKIS, Three-dimensional transport and cotransport of pollutants in porous media (Τρισδιάστατη μεταφορά και συμμεταφορά ρύπων σε πορώδη μέσα) (2018). Current Position: Postdoctoral Fellow at the Technical University of Crete.
 [9] VASILIKI I. SYNGOUNA, Inactivation and transport of biocolloids in porous media (Αδρανοποίηση και μεταφορά βιοκολλοειδών σε πορώδη μέσα) (2012). Current Position: Postdoctoral Fellow at the Technical University of Crete, Lecturer at the Ionian University, Greece.

(Primary Advisor - UCI)

- [8] J. MATTHEW THOMAS, Acoustically Enhanced NAPL Ganglia Mobilization and Dissolution in the Presence of Colloids (2009). Current Position: Senior Engineer in Geosyntec Consultants.
 [7] ROBERT ANDERS, Virus fate and Transport During Field-Scale Infiltration (2006). Current Position: U.S. Geological Survey, San Diego, California, USA.
 [6] ERIC T. VOGLER, Acoustically Enhanced Nonaqueous Phase Liquid Remediation in Porous Media (2003). Current Position: U.S. Geological Survey, Albuquerque, New Mexico, USA.
 [5] SCOTT C. JAMES, Polydisperse Colloid Transport in Fractured Media (2001). Current Position: Assistant Professor at Baylor University, Departments of Geosciences and Mechanical Engineering.
 [4] KENNETH Y. LEE, Dissolution of Nonaqueous Phase Liquid Pools in Saturated Porous Media (1999). Current Position: Professor, Western New England University, Department of Civil and Environmental Engineering, Springfield, MA.
 [3] TAE-JOON KIM, Mass Transfer Correlations for NAPL Pool Dissolution and Investigation of Cosolvent-Water Displacement in Porous Media (1998). Current Position: Los Angeles County, Department of Public Works.
 [2] YOUN SIM, Virus Transport in Physicochemically Heterogeneous Porous Media (1997). First place recipient of the Universities Council on Water Resources (UCOWR) Dissertation Award in the field of Water Processes. Current Position: Los Angeles County, Department of Public Works.
 [1] ASSEM ABDEL-SALAM, Modeling of Contaminant/Colloid Transport and Unsaturated Flow in Fractured Media (1995). First place recipient of the Universities Council on Water Resources (UCOWR) Dissertation Award in the field of Engineering and Physical Sciences. Current Position: Hydrogeologist/Environmental Engineer, San Diego, CA.

M.S. Students at (Thesis Option)

(Primary Advisor – TU Crete)

- [16] ANTHI S. STEFANAROU, Interaction of titanium dioxide with formaldehyde in the presence of quartz sand under static and dynamic conditions (2023).
 [15] MARIA P. GEORGOPOULOU, Effect of graphene oxide on biocolloid cotransport in water saturated porous media (Μελέτη επίδρασης του οξειδίου του γραφενίου στη συμμεταφορά βιοκολλοειδών σε κορεσμένα πορώδη μέσα) (2018).

- [14] NIKOLAOS P. SOTIRELIS, Investigation of graphene oxide interactions with kaolinite in batch and flow through water saturated packed-column experiments (Μελέτη αλληλεπίδρασης οξειδίου του γραφενίου και καολινίτη σε πειράματα διαλείποντος έργου και κορεσμένης στήλης) (2016).

(Primary Advisor – U Patras)

- [13] STAVROS BALIOUKOS, Experimental study of nonaqueous phase liquid transport in two-dimensional porous media (Πειραματική μελέτη φαινομένων μεταφοράς μάζας από υγρά μη υδατικής φάσης σε δισδιάστατα πορώδη δοκίμια) (2012).
- [12] VASILEIOS E. KATZOURAKIS, Numerical modeling of biocolloid-colloid cotransport in three-dimensional porous media (Αριθμητική μοντελοποίηση συµµεταφοράς βιοκolloειδών-κolloειδών σε τρισδιάστατα πορώδη μέσα) (2012).
- [11] ANDRIANA F. ARAVANTINOY, Inactivation and Attachment of Viruses in the Presence of Soil Particles with Different Size (Αδρανολογία και Προσρόφηση Ιόν σε Εδαφικό Υλικό Διαφορετικής Κοκκομετρίας) (2011).
- [10] POLIXENI N. MITROPOYLOU, Colloid Transport in Unsaturated Porous Media (Μεταφορά Κolloειδών σε Ακόρεστα Πορώδη Μέσα) (2011).
- [9] PLEGA CHRISTINA, Experimental Study of Contaminant Transport in Porous Media (Πειραματική Μελέτη Μεταφοράς Ρύπων σε Πορώδη Μέσα) (2009).
- [8] MAROUPAS DIMITRIOS, Investigation of Acoustic Waves Effects on the Coagulation of Aqueous Phase Colloid Concentrations (Μελέτη Επίδρασης της Εφαρμογής Ακουστικών Κυμάτων σε Διεργασίες Συσσωμάτωσης Κolloειδών Διασπορών) (2009).

(Primary Advisor – UCI)

- [7] J. MATTHEW THOMAS, Acoustically Enhanced Colloid Transport in Saturated Porous Media (2005).
- [6] KENT M. PUMPHREY, Non-Aqueous Phase Drop Formation and Migration in a Uniform Water Saturated Fracture (2002).
- [5] TANYA K. BILEZIKJIAN, Colloid/Contaminant Co-Transport in Porous Fractured Media (2001). Present occupation: Project Manager at RBF Consultants.
- [4] MATTHEW W. BAO, Nonaqueous Liquid Pool Dissolution in Three Dimensional Heterogeneous Sub-surface Formations (2001). Present occupation: Project Engineer, County Sanitation Districts of Los Angeles County.
- [3] PIN-YI (CINDY) HSUAN, Determination of Mass Transfer Coefficients for a Dissolving Nonaqueous Phase Liquid Pool in Porous Media (2000). Current Position: Medical School.
- [2] MICHAEL E. TATALOVICH, Enhanced Aquifer Remediation of DNAPL Pools Using Dissolved Humic Substances (1998). Current Position: Los Angeles County Sanitation.
- [1] KENNETH Y. LEE, Numerical Modeling of Contaminant Transport from Dissolution of Stagnant Nonaqueous Phase Liquid Pools in Groundwater (1994).

Undergraduate Students (Theses)

(Primary Advisor – TU Crete)

- [47] AVANGELIA-APOSTOLIA XENOU (2022)
- [46] ALEXANDROS ARNOGIANNAKIS (2020)
- [45] ANTHI STEFANAROU (2020)
- [44] DIMITRA FASOULETOU (2020)
- [43] GEORGE PAMFILIS (2018)
- [42] KLEANTHI I. KOURTAKI (2018)
- [41] VALENTINOS S. LOUKOPOYLOS-KOUSIS (2018)
- [40] ALEXANDROS A. PAPAIOANNOY (2017)
- [39] GEORGIOS I. GIANNADAKIS (2017)
- [38] MARIA P. GEORGOPOYLOU (2016)
- [37] NIKOLAOS P. SOTIRELIS (2014)

(Primary Advisor - U Patras)

- [36] VASILEIOS E. KATZOURAKIS (2010)
- [35] CHRYSOULA KOUTSOYKOU (2010)
- [34] MARIA STERGIADI (2009)
- [33] IOANNIS BOTZAKAKIS (2008)
- [32] STAVROS BALIOUKOS (2008)
- [31] DIMITRIOS MAROUPAS (2006)
- [30] SOTIRIOS BROBONAS (2006)
- [29] VASILEIOS BOUBOURAS (2006)

(Primary Advisor – UCI – Independent Studies – Honors)

- [28] CECILY C. STOREY (2004)

- [27] JO ANN DACANA (2003)
 [26] JULIO S. FERNANDEZ (2002)
 [25] JOSE R. VALLE (2000)
 [24] JOSEPH ELKAYAM (2000)
 [23] DANIEL L. ELIAS, Spring 2000.
 [22] MATTHEW W. BAO (2000)
 [21] KENNY T. NGUYEN (2000)
 [20] ANTONIO QUIRANTE, JR. (1998)
 [19] ROBERT T. HAN (1998)
 [18] VINH N. TRAN (1998)
 [17] RAMIL C. PARIAL (1998)
 [16] THOMAS A. JELENIC (1998)
 [15] PIN-YI HSUAN (1998)
 [14] JEN P. CHEN (1998)
 [13] MIN S. LEE (1998)
 [12] OLGA REYES (1997), First-place recipient of the 8th Annual UCI Pregraduate Mentorship Program (PGMP) Conference Award for research in Engineering.
 [11] STEVE Y. SUNG (1997)
 [10] MICHAEL BERMAN (1995)
 [9] MICHAEL E. TATALOVICH (1995)
 [8] THAI T. NGUYEN (1995)
 [7] JUNE K. LOREMAN (1995)
 [6] JAIME A. FINK (1994)
 [5] NIVEEN S. TADROS (1994)
 [4] SAMAN JILANCHI (1994)
 [3] STAMATIOS ARSENIKOS (1994)
 [2] JUAN B. OSPINA (1993)
 [1] KENNETH Y. LEE (1992)

Postdoctoral Fellows

- [7] VASILEIOS E. KATZOURAKIS (2018–2021)
 [6] VASILIKI I. SYNGOUNA (2012–2020)
 [5] VARVARA SYGOUNI (2012–2015)
 [4] IOANNA VASILIADOU (2008–2010)
 [3] LIU LING (2001–2002)
 [2] YOUN SIM (1998)
 [1] ASSEM ABDEL-SALAM (1995)

SCIENTIFIC AND PROFESSIONAL SOCIETY MEMBERSHIPS

American Chemical Society (ACS)
 American Geophysical Union (AGU)
 European Geosciences Union (EGU)
 Association of Environmental Engineering Professors (AEEP)
 Technical Chamber of Greece (TEE)

PROFESSIONAL SERVICE AND ACTIVITIES

(a) Conference Organizer:

- [3] Chair and organizer of the European Geophysical Union session on Fate and Transport of Biocolloids and Nanoparticles in Soil and Groundwater Systems, Vienna, Austria, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021.
 [2] Chair and organizer of the European Geophysical Union session on Fate and Transport of Biocolloids in Environmental Systems, Vienna, Austria, 2011.
 [1] Organizer of the conference on Environmental Models and Experiments Envisioning Tomorrow (EnviroMEET '98), July 20-23, 1998, Irvine, CA.

(b) Proposal Reviewerships:

American Chemical Society, Petroleum Research Fund (2004, 2015)
 ANS – American Nuclear Society – Natural Systems, USA

Department of Energy, Office of Energy Research (OER), USA – Review Panel 2002
 Environmental Protection Agency, USA
 National Science Foundation, USA
 Netherlands Organization for Scientific Research, Vidi scheme
 Office of Basic Energy Sciences, USA
 Shota Rustaveli National Science Foundation, Georgia (two proposals 2014, two proposals 2015)
 TRIAS (TRIPartite Approach of Subsurface patterns and processes), The Netherlands
 U.S. Geological Survey & National Institutes for Water Resources, USA
 Utah Center for Water Resources Research, USA

(c) Manuscript Reviewerships

Reviewer of 841 papers in 123 International Journals – () number of reviews:

ACS ES&T Water (3)	Fresenius Environmental Bulletin (1)
Adsorption Science and Technology (2)	Frontiers in Sustainable Food Systems (1)
Advances in Environmental Research (3)	Frontiers in Water (3)
Advances in Mathematical Physics (1)	Geoderma (1)
Advances in Water Resources (30)	Geofluids (1)
Agronomy (1)	Geophysical Research Letters (4)
AIChE Journal (6)	Geophysics (5)
Applied Geochemistry (1)	Geoscience Frontiers (1)
Applied Mathematical Modelling (1)	Global Nest Journal (3)
Applied Mathematics and Computation (1)	Ground Water (6)
Applied Microbiology (4)	Groundwater for Sustainable Development (1)
Applied Physics Letters (1)	Hydrological Processes (2)
Arabian Journal for Science and Engineering (3)	Hydrological Sciences Journal (2)
Asia-Pacific Journal of Chemical Engineering (1)	Hydrology (1)
Biocatalysis and Agricultural Biotechnology (1)	Hydrology and Earth System Sciences Discussions (1)
Biotechnology and Bioengineering (1)	Industrial & Engineering Chemistry Research (2)
Brazilian Archives of Biology & Technology (1)	International Biodeterioration and Biodegradation (1)
Chemical Engineering Journal (7)	International Journal of Engineering Science and Technology (1)
Chemical Engineering Research and Design (1)	International Journal of Environmental Research and Public Health (2)
Chemical Engineering Science (8)	International Journal of Water Resources and Environmental Engineering (1)
Chemical Papers (1)	ISH Journal of Hydraulic Engineering (1)
Chemosphere (12)	Journal of Advanced Research (1)
Cogent Geosciences (2)	Journal of Applied Microbiology (2)
Colloids and Surfaces A: Physicochemical and Engineering Aspects (29)	Journal of Chemical Technology and Biotechnology (4)
Colloids and Surfaces B: Biointerfaces (14)	Journal of Colloid and Interface Science (15)
Critical Reviews in Environmental Science and Technology (1)	Journal of Computational and Applied Mathematics (1)
Desalination and Water Treatment (3)	Journal of Contaminant Hydrology (49)
Energies (1)	Journal of Engineering Mechanics (2)
Entropy (1)	Journal of Environmental Chemical Engineering (40)
Environmental Earth Sciences (10)	Journal of Environmental Engineering-ASCE (15)
Environmental Engineering and Management Journal (1)	Journal of Environmental Management (1)
Environmental Engineering Science (2)	Journal of Environmental Quality (7)
Environmental Pollution (27)	Journal of Environmental Sciences (3)
Environmental Pollutants and Bioavailability (2)	Journal of Hazardous Materials (59)
Environmental Science: Nano (4)	Journal of Hazardous, Toxic, and Radioactive Waste-ASCE (3)
Environmental Science: Processes and Impacts (4)	Journal of Hydro-environment Research (7)
Environmental Science and Pollution Research (11)	Journal of Hydroinformatics (1)
Environmental Science and Technology (57)	Journal of Hydrologic Engineering-ASCE (3)
Environmental Technology (2)	
Environmental Technology and Innovation (1)	
Environments (1)	
European Journal of Environmental and Civil Engineering (1)	

Journal of Hydrology (26)
 Journal of Molecular Liquids (4)
 Journal of Non-Equilibrium Thermodynamics (2)
 Journal of Porous Media (2)
 Journal of Physical Chemistry (2)
 Journal of Physics Research and Applications (1)
 Journal of Scientific Research and Reports (1)
 Journal of Soils and Sediments (1)
 Journal of the Acoustical Society of America (1)
 Journal of Zhejiang University-Science (1)
 Korean Journal of Chemical Engineering (1)
 Langmuir (3)
 Mathematical and Computer Modeling (2)
 Multidiscipline Modeling in Materials and Structures (1)
 Multiscale Modeling and Simulation-SIAM (2)
 NanoImpact (1)
 Nanomaterials (2)
 Nano Structures & Nano Objects (2)
 Peer J Physical Chemistry (1)
 Physics and Chemistry of the Earth (1)
 Powder Technology (2)
 Results in Engineering (2)
 Separation Science and Technology (1)
 Science of the Total Environment (29)
 Scientia Iranica (1)
 Scientific Reports (1)
 Soil Science Society of America Journal (2)
 Soil & Tillage Research (1)
 Stochastic Environmental Research and Risk Assessment (3)
 Surfaces and Interfaces (1)
 Toxicology in Vitro (1)
 Transport in Porous Media (85)
 Vadose Zone Journal (4)
 Waste Management (1)
 Water (19)
 Water Air & Soil Pollution (5)
 Water Environment Research (1)
 Water Research (38)
 Water Resources Research (58)
 Water Science and Technology (7)
 Water Supply (3)

(d) Special Publication Reviewerships:

Remediation in Rock Masses (ASCE)

(e) Invited Lectures:

Hellenic Cancer Society – Corfu Chapter, Greece
 Istituto di Ricerca Sulle Acque, Bari, Italy
 Lawrence Berkeley Laboratory, USA
 Purdue University, USA
 Stanford University, USA
 Technical University of Crete, Greece
 University of California, Irvine, USA
 University of California, Los Angeles, USA
 University of Patras, Greece
 University of Southern California, USA
 Uppsala University, Sweden

UNIVERSITY SERVICE

(a) Major Activities at University of California Irvine (UCI)

Campus (UCI):

Campus Delegate to the Universities Council on Water Resources, UCOWR (1995–2000)
 Campus Fulbright Committee, (1998–1999)
 Representative to Academic Senate Assembly (1995–1997)

School of Engineering:

Budget and Planning Committee, member (Fall 1998)
 Committee on Applied Mathematics, member (Fall 1992)
 School of Engineering Faculty & Executive Committee, Secretary (1995–1996)
 School of Engineering Graduate Studies Committee, Chair (1996–2000)

Department of Civil and Environmental Engineering:

ABET Committee (2001–2004)
 Computer Committee, Chair (1992–1993)
 Computer Committee, member (1993–1997)
 Committee on Teaching Quality, Chair (1997–2000)
 Committee on Teaching Quality, member (1996–1997)
 Environmental and Water Laboratory Committee, member (1995–2004)
 Graduate Advisor (1996–2000)
 Graduate Studies Committee, member (1994–2004)
 Search Committee for Environmental Faculty Position, member (1995–1996)

Search Committee for Environmental Faculty Position, member (1996–1997)
 Search Committee for Fund Administrator AA-I, member (Fall 1997)
 Search Committee for Fund Administrator AA-III, member (Winter 1998)
 Search Committee for Structural Engineering Faculty Position, member (1997–1998)

(b) Major Activities at U Patras:

Director of UPeel - University of Patras Environmental Engineering Laboratory (2004–2013)
<http://www.upeel.civil.upatras.gr/>
 Coordinator of Biomet network - Fate and Transport of Biocolloids in Environmental Systems (2009–2013)
<http://biomet.upatras.gr/>

(c) Major Activities at Technical University of Crete (TUC):

Member of the Research and Innovation Council – Region of Ionian Islands. Μέλος στο Περιφερειακό Συμβούλιο Έρευνας και Καινοτομίας - Ιονίων Νήσων (ΠΣΕΚ-IN) (2018–)
 Director of TUCeeL – Technical University of Crete Environmental Engineering Laboratory (2013–)
 President of Biomet network - Fate and Transport of Biocolloids in Environmental Systems (2013–14)
<http://biomet.upatras.gr/>

RESEARCH FUNDING

- EF22 “Implementation of Innovative nano-technologies on water remediation and recycling in Olive Oil Mills - Olive Nano-Filter”, Greek Rural Development Programme (No. M16ΣYN2-00354), Project coordinator: Dr. C.V. Chrysikopoulos, 2022–2024, PI (141,954 €).
- EF21 “Innovative and sustainable groundwater management in the Mediterranean”, PRIMA, Acronym: InTheMED, Project coordinator: Dr. Jaime Gomez-Hernandez, 2020–2022, Co-PI.
- EF20 “Preventing and remediating degradation of soils in Europe through land care”, EUROPEAN UNION’S SEVENTH FRAMEWORK PROGRAMME FOR RESEARCH, TECHNOLOGICAL DEVELOPMENT AND DEMONSTRATION (FP7-ENV-2013-two-stage, No. 603498), Acronym: RE CARE (<http://recare-project.eu>), Project coordinator: Dr. I. Tsanis, 2013–2018, Subcontract Contributor.
- EF19 “Fate and transport of biocolloids and nanoparticles in groundwater and effects of polluted water on public health”, HELLENIC MINISTRY OF NATIONAL EDUCATION AND RELIGIOUS AFFAIRS: ARISTEIA I (No. 1185), Acronym: BioNFate (<http://tuceel.tuc.gr/bionfate>), Project coordinator: Dr. C.V. Chrysikopoulos, 2012–2015, PI (500,000 €).
- EF18 “Geomechanics and environment of CO₂ geological storage”, HELLENIC MINISTRY OF NATIONAL EDUCATION AND RELIGIOUS AFFAIRS: THALIS, Project coordinator: Dr. E. Papamichos (Aristotle University of Thessaloniki), 2012–2015, Co-PI (521,740 €).
- EF17 “Inactivation and transport of biocolloids in porous media”, HELLENIC MINISTRY OF NATIONAL EDUCATION AND RELIGIOUS AFFAIRS: HERACLITOS II Project, Grant No. 284, Project coordinator: Dr. C.V. Chrysikopoulos, 2011–2014, PI (45,000 €).
- EF16 “Study of virus (bacteriophage) transport in saturated and unsaturated aquifers”, University of Patras, Research Committee, “K. Karatheodori” Project, 2007–2009, PI (24,000 €).
- EF15 “Integrated actions in order to protect coastal areas from anthropogenic pollutions and for groundwater restoration by reversing the seawater intrusion in coastal aquifers,” INTERREG IIIA Greece-Italy, 2006 - 2008, Specific theme: Protection of coastal aquifers from seawater intrusion: PRIMAC (<http://primac.ba.cnr.it>), Project coordinator: Dr. Ing. C. Masciopinto, Co-PI, (932,000 €).
- EF14 “Investigation of Groundwater Contamination by Viruses During Infiltration of Recycled Water: Laboratory and Field Experiments,” HELLENIC REPUBLIC MINISTRY OF DEVELOPMENT: GENERAL SECRETARIAT FOR RESEARCH & DEVELOPMENT, 2006–2008, PI (60,000 €).
- EF13 “Reduction of Environmental Pollution with the Employment of Solar Powered Combustion of Industrial Waste,” HELLENIC MINISTRY OF NATIONAL EDUCATION AND RELIGIOUS AFFAIRS: ARCHIMEDES 2, 2005–2007, Co-PI (75,000 €).
- EF12 “Development of Methodologies for Rapid Prediction and Evaluation of River Contamination,” HELLENIC MINISTRY OF NATIONAL EDUCATION AND RELIGIOUS AFFAIRS: PYTHAGORAS 2, 2005–2007, Co-PI (50,000 €).
- EF11 “Acoustically Enhanced Remediation of Aquifers Contaminated with Nonaqueous Phase Liquids,” NATIONAL SCIENCE FOUNDATION, October 2003 – December 2006, Sole PI (\$100,000).
- EF10 “Application of Acoustic Pressure Waves in Aquifer Remediation and Mobilization of Entrapped Organic Liquids,” UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER, 2000–2002, Sole PI (\$56,000).
- EF9 “Bridge Funding Award,” UNIVERSITY OF CALIFORNIA IRVINE, 1999–2000, Sole PI (\$26,500).

- EF8 “Effect of Soil Moisture and Temperature Fluctuations on Fate and Transport of Viruses in the Subsurface,” UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER, 1997–1999, Sole PI (\$50,408).
- EF7 “Dissolution Kinetics of Single and Multicomponent NAPL Pools in Saturated Three-Dimensional Porous Media,” ENVIRONMENTAL PROTECTION AGENCY, 1995–1999, PI (\$345,368).
- EF6 “Effects of Physical and Geochemical Heterogeneity of Porous Media on Macroscopic Virus Transport,” UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER/NATIONAL WATER RESEARCH INSTITUTE, 1995–1997, Sole PI (\$48,192).
- EF5 “Colloid Transport in Saturated Fractured Systems,” UCI FACULTY RESEARCH AWARD, 1995–1995, Sole PI (\$10,673).
- EF4 “Virus Transport in Multidimensional Geochemically Heterogeneous Porous Media,” UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER, 1994–1995, Sole PI (\$5,000).
- EF3 “Effective Parameters for Flow in Saturated Heterogeneous Porous Media with Spatially Variable Hydraulic Conductivity and Specific Storage,” UNIVERSITY OF CALIFORNIA, IRVINE RESEARCH FACULTY FELLOWSHIP, 1993–1994, Sole PI (\$10,000).
- EF2 “Deposition Mechanisms and Long-Time Scale Factors Influencing Virus Transport in Porous Media,” NATIONAL WATER RESEARCH INSTITUTE/ ENVIRONMENTAL PROTECTION AGENCY, 1993–1994, Co-PI (\$137,000).
- EF1 “Dissolution Kinetics of NAPL Pools in Saturated Porous Media,” NATIONAL SCIENCE FOUNDATION, Subcontract through GEORGIA INSTITUTE OF TECHNOLOGY, 1992–1992, Sole Contributor (\$20,000).

PERSONAL DATA

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