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Professor
Institute of Environmental Sciences
Bogazici University
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EDUCATION

Ph.D. in Civil and Environmental Engineering, 1994

University of California at Berkeley

M.E. in Civil and Environmental Engineering, 1990

University of California at Berkeley

B.E. in Civil Engineering, 1988

American University of Beirut, Lebanon

RESEARCH INTERESTS

Fate and Transport of Pollutants in the Environment, Stochastic Modeling of Groundwater Flow and Contaminant Transport, Subsurface Characterization, Groundwater Remediation, Removal of NAPLs from Porous Media, Engineered Nanoparticles for Groundwater Remediation, Air Pollution Modeling, Fate and Transport of Nanomaterials in the Environment, Oil Spill Modeling, Computational Fluid Dynamics, Landfill Gas Generation and Transport

TEACHING EXPERIENCE

Bogazici University- Institute of Environmental Sciences

Head of Environmental Sciences Division, 2019-2021

Head of Environmental Technology Division, March 2021-

Professor, March 2011 –

Associate Professor, April 2005 – March 2011

Assistant Professor, September 2000 – April 2005

University of California at Berkeley

Instructor, January – May 1997

Teaching Assistant, January 1989 – December 1994

WORK EXPERIENCE

Bechtel Environmental, Inc. San Francisco, CA

Senior Hydrogeologist, January 1995 – August 2000

Responsible for the conceptualization, development and analysis of groundwater flow and contaminant transport processes at numerous sites in the United States and overseas in support of site characterization, remedial investigations, feasibility studies, risk assessment analysis, and remedial design of subsurface contamination problems

Philip Williams and Associates, San Francisco, CA

Subsurface Hydrology Consultant, January 1995 - April 1995

Developed a statistical/numerical groundwater flow model for assessing the environmental impact of subsurface wastewater discharge

University of California at Berkeley

Research Assistant, January 1989 - December 1994

LANGUAGES

Proficient in English and Arabic, basic knowledge of French and Turkish

HONORS AND AWARDS

Outstanding Instructor Award, Boğaziçi University, 2014

Outstanding Technical paper Award from Bechtel Corporation, 2001, 2004

Bechtel Merit Award, 1996, 1997, 1998

Water Resources Center Fellowship, 1993-1994

Maybelle B. and John T. Tucker Fellowship, Fall 1993

Outstanding Teaching Assistant Award, Fall 1992

Jane Lewis Fellowship, 1991-1992

Non-Resident Tuition Scholarship, 1990-1991

Hariri Foundation Scholarship, 1988-1989

EDITORIAL WORK

Co-chair of the International Water Association (IWA) 4th Regional Diffusion Pollution and Eutrophication conference held in Istanbul, 24-28 October, 2022

Associate Editor, *Hydrogeology Journal*, 2009-2012

Associate Editor, *American Journal of Environmental Sciences*, 2017-2021

Guest Editor; IAHR Hydrolink Groundwater Special Issue, 2019

Reviewer for *Water Resources Research; Journal of Hydrology; Advances in Water Resources; Journal of Contaminant Hydrology; Hydrogeology Journal; Environmental Science and Technology; Journal of Hazardous Materials; Hydrological Processes; Journal of Hydraulic Research; Turkish Journal of Engineering and Environmental Sciences; Waste Management and Research; Journal of Hydro-environment Research; Thermal Science; Engineering Geology; Hydrological Science Journal; Hydrology and Earth System Sciences; International Journal of Global Warming; Water Quality Exposure and Health; Journal of Advanced Research; Journal of Applied Water Engineering and Research; Journal of Agricultural and Resource Economics; Water Air and Soil Pollution; Hydrology Research; Waste Management; American Journal of Environmental Sciences; Ecological Processes; Environmental Science and Pollution Research*

PROFESSIONAL AFFILIATION

American Geophysical Union (AGU)- member since 1991
International Association of Hydrological Sciences (IAHS)- member since 2001
International Association of Hydraulic Research (IAHR)
Secretary of Groundwater Hydraulics Section 2003-2005
Chair of Groundwater Hydraulics and Management Committee 2006-2011
International Water Association (IWA)- member since 2019

REGISTRATION

Professional Engineer, California, 1999-Present

RESEARCH PROJECTS

Ongoing

Innovative Groundwater Management in the Mediterranean, The Partnership for Research and Innovation in the Mediterranean Area (**PRIMA**), 2020-
Promoting Research and Innovation Environment in the Libyan Higher Education System-**IBTIKAR, (ERASMUS+)**, 2021-
Fate and Transport of Pesticides in the Konya Plain, **Bogazici University Research Fund**, 2020-
In-Situ Chemical Flushing and Oxidation Technologies for the Remediation of Aquifer Systems Contaminated with DNAPLs, **Bogazici University Research Fund**, 2019-

Completed

Soil salinity management by sustainable irrigation practices in Konya Plain, Turkey, through an interdisciplinary multi-institutional network (**TÜBİTAK- British Council**), 2019-2022
Experimental Investigation and Modeling of the Remediation of DNAPL Mixtures in Aquifer Systems: Performance of in situ chemical flushing and oxidation technologies, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2017-2020
Assessment of improvements in Air Quality Related to an Increase in the Share of Renewable Energy in Turkey's Electricity Mix, The Institute for Advanced Sustainability Studies (**IASS**), 2018-2020
Airborne Particulate Matter at the Saritepe Campus, Boğaziçi Üniversitesi, **Bogazici University Research Fund**, 2017-2019
Biotechnological Solutions for Recovery of Rare Earth Metals and Precious Metals from E-Waste-(**BIOREMs**), Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2014-2018
Modeling the Hyporheic Exchange of a River in an Agricultural Area, **Bogazici University Research Fund**, 2016-2017
Cosolvent Flushing and Nanoparticle Technology for Remediation of Groundwater Contaminated with DNAPLs, **Bogazici University Research Fund**, 2013-2016

- Behavior of Nanoparticles in Conventional and Bioreactor Landfills, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2013–2016
- Multi-Objective Optimization of Cosolvent Flushing of NAPLs in Saturated Porous Media, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2014–2016
- Subsurface Characterization and Application to the Bogaziçi University Kilyos Campus, **Bogazici University Research Fund**, 2012–2015
- Risk Assessment of Oil Spill Accidents in Regional Seas, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2011–2013
- Contaminant Transport in the Groundwater: Hydrodynamic Dispersion under High Concentration Gradients, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2010–2012
- Analysis of Pumping Test Data from Heterogeneous Leaky Aquifer Systems, **Bogazici University Research Fund**, 2010–2012
- Removal of Organic Contaminants from the Groundwater, **Bogazici University Research Fund**, 2009–2012
- Impact of Deforestation and Land Use Change on the CO₂ emissions from the Karasu Forest in the Western Black Sea Region of Turkey, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2007–2010
- An Integrated Land Use - Hydrological Model for the Sustainable Management of the Bartın Spring Watershed, Turkey, **Bogazici University Research Fund**, 2007–2009
- Application of Nanoparticles for Groundwater Remediation, **Bogazici University Research Fund**, 2007–2010
- Effect of High Concentration Gradients on Hydrodynamic Dispersion in Porous Media, **Bogazici University Research Fund**, 2006–2008
- Evaluation of Innovative Technologies for Soil and Groundwater Remediation, Scientific and Technological Research Council of Turkey (**TÜBİTAK**), 2005–2009
- Mobilization of Dense Non-Aqueous Liquids in Heterogeneous Porous Media- Theoretical and Experimental Studies, **Bogazici University Research Fund**, 2004–2006
- Geostatistical Interpretation of Pumping Test Data in Heterogeneous Formations, **Bogazici University Research Fund**, 2001–2003
- Evaluation of Demonstrated and Emerging Remedial Action Technologies for the Treatment of Contaminated Land and Groundwater, **NATO/CCMS**, 2000–2002

PEER REVIEWED JOURNAL PUBLICATIONS

- [1] Yetiştici, B., **Coptly, N. K.**, Trincherro, P., Sanchez-Vila, X., The Impact of flow connectivity on the Interpretation of Pumping Test Data, under review *Water Resources Research*, 2022
- [2] Demiray, Z., Akyol, N. H., **Coptly, N. K.**, Mass-flux Reduction and Mass Removal Relationships (MFR-MR) of Pool-dominated Multicomponent DNAPLs in a Heterogeneous Geological System, accepted for publication in *Global NEST journal*, 2022

- [3] Alazaiza, M. Y. D., Albahnasawi, A., Copty, N. K., Bashir M. J. K., Nassani, D. E., Al Maskari, T., Abu Amr, S. S., Abujazar, M. S., Nanoscale zero-valent iron application for the treatment of soil, wastewater and groundwater contaminated with heavy metals: a review, accepted publication in *Desalination and Water Treatment*, 1-17 2022, doi: 10.5004/dwt.2022.28302
- [4] Alazaiza, M. Y. D., Albahnasawi A., Copty N. K., Ali G., Bashir M., Abu Amr S., Abushammala M., Nassani D., Almaskari T., An Overview of Chemical Oxidation Based Remediation technologies for Non-Aqueous Phase Liquids Removal from Soil, *Global NEST Journal*, 23(1), 2022.
- [5] Demiray, Z., Akyol, N. H., **Copty, N. K.**, Experimental Assessment and Modeling of Enhanced Solubilization of Pool-dominated Tetrachloroethene Source Zone in Heterogeneous Porous Media, *Water Air and Soil Pollution*, 232:516, 2021
- [6] Aminnaji, M., Yaksi, **Copty, N. K.**, Niasar, V. J., Babaei, M., Pore Network and Darcy Scale Modelling of DNAPL Remediation Using Ethanol Flushing: Study of Physical Properties in DNAPL remediation, *Journal of Contaminant Hydrology*, 243, 103886, 2021
- [7] Alazaiza, M. Y. D., Albahnasawi, A., Ali, G. A. M, Bashir, M. J. K. **Copty, N. K.**, Abu Amr S. S., Abushammala, M. F. M., Maskari, T., Recent Advances of Nanoremediation Technologies for Soil and Groundwater Remediation: A review, *Water*, 13(16), 2186, 2021
- [8] Yaksi, K., Demiray, Z., **Copty, N. K.**, Impact of cosolvents on the interphase mass transfer of NAPLs in porous media, *Water Resources Research*, 57, e2020WR029326, 2021
- [9] Alazaiza, M. Y. D., Ramli, M. H., **Copty, N. K.**, Ling, M. C., Assessing the impact of water infiltration on LNAPL mobilization in sand column using simplified image analysis method, *Journal of Contaminant Hydrology*, 238, 103769, 2021
- [10] Pechstein, A., **Copty, N. K.**, Estimating the Transmissivity from Steady-State Pumping Tests in Heterogeneous Aquifers delineated by a Linear Constant Head Boundary, *Groundwater*, 59(4), 517-523, 2021
- [11] Karal, E., Kucuker, M. A., Demirel, B., **Copty, N. K.**, Kuchta, K., Hydrometallurgical recovery of neodymium from spent hard disk magnets: A life cycle perspective, *Journal of Cleaner Production*, 288, 2021
- [12] Alazaiza, M. Y. D., **Copty, N. K.**, Abunada, Z., Experimental investigation of cosolvent flushing of DNAPL in double-porosity soil using light transmission visualization, *Journal of Hydrology*, 584, 124659, 2020
- [13] Gökçe, B. H., Arıoğlu, E., **Copty, N. K.**, Onay T. T., Gün, B, Exterior air quality monitoring for the Eurasia Tunnel in Istanbul, Turkey, *Science of the Total Environment*, 699, 134312, 2020
- [14] Alazaiza, M. Y. D., Ramli, M. H., **Copty, N. K.**, Sheng, T. J., Aburas, M. M., LNAPL Saturation distribution under the influence of water table fluctuations using simplified image analysis method, *Bulletin of Engineering Geology and the Environment*, 79, pages 1543–1554, 2020
- [15] Alazaiza, M. Y. D., **Copty, N. K.**, Ngien, S. K., Bob, M. M., Aburas, M. M., Characterization of Capillary Pressure–Saturation Relationships for Double-Porosity

- Medium Using Light Transmission Visualization Technique, *Transport in Porous Media*, 130(2), 513-528, 2019
- [16] Karaoglu, A. G., **Coptly, N. K.**, Akyol, N. H., Kilavuz, S. A., Babaei, M., Experiments and sensitivity coefficients analysis for multiphase flow model calibration of enhanced DNAPL dissolution, *Journal of Contaminant Hydrology*, 225, 103515, 2019.
- [17] Onay, T. T., **Coptly N. K.**, Gökçe H. B., Aydın-Sarikurt D., Mumcu, M., and Arioğlu, E., Air Quality Impact Assessment for the Eurasia Tunnel Istanbul, Turkey, *Environmental Monitoring and Assessment*, 191:195, 2019.
- [18] Alazaiza, M. Y. D., Ngien, S. K., **Coptly, N. K.**, Bob, M. B., and Kamaruddin, S. A., Assessing the influence of infiltration on the migration of light non-aqueous phase liquid in double-porosity soil media using a light transmission visualization method, *Hydrogeology Journal*, 27(2), 581-593, 2019.
- [19] Babaei, M., **Coptly N. K.**, Numerical modelling of the impact of surfactant partitioning on surfactant-enhanced aquifer remediation, *Journal of Contaminant Hydrology*, 221, 69-81, 2019.
- [20] Di Addario, M., Temizel, I., Edes, N., Onay, T. T., Demirel, B., **Coptly, N. K.**, Ruggeria, B., Development of Fuzzy Logic Model to Predict the Effects of ZnO Nanoparticles on Methane Production from Simulated Landfills, *Journal of Environmental Chemical Engineering*, 5(6), 5944-5953, 2017
- [21] Aydın Sarikurt, D., Gokdemir, C., **Coptly N. K.**, Sherwood Correlation for Dissolution of Pooled NAPL in Porous Media, *Journal of Contaminant Hydrology*, 206, 67-74, 2017
- [22] Temizel, I., Emadian, S. M., Di Addario, M., Onay, T. T., Demirel, B., **Coptly, N. K.**, Karanfil, T., Effect of Nano-ZnO on Biogas Generation from Simulated Landfills, *Waste Management*, 63, 18-26, 2017
- [23] Demir, M. T., **Coptly, N. K.**, Trincherro, P, Sanchez-Vila, X., Bayesian Estimation of the Transmissivity Spatial Structure from Pumping Test Data, *Advances in Water Resources*, 104, 174-182, 2017
- [24] Kucuker, M. A., Wiczorek, N., Kuchta, K., **Coptly, N. K.**, Biosorption of Neodymium on *Chlorella vulgaris* in Aqueous Solution Obtained from Hard Disk Drive Magnets, *PLOS ONE*, 12(4), e0175255, 2017
- [25] Yasar, A., Onucyildiz, M., **Coptly, N. K.**, A Combined Wavelet and Neural Network Model for Forecasting Streamflow Data, *Fresenius Environmental Bulletin*, 25, 12, 5217-5225, 2016
- [26] Aydın-Sarikurt, D., Dokou, Z., **Coptly, N. K.**, Karatzas, G. P., Experimental Investigation and Numerical Modeling of Enhanced DNAPL Solubilization in Saturated Porous Media, *Water Air and Soil Pollution*, 227: 441, DOI 10.1007/s11270-016-3136-0, 2016
- [27] Agaoglu, B., Scheytt, T., **Coptly, N. K.**, Impact of NAPL architecture on interphase mass transfer: A pore network study, *Advances in Water Resources*, 95, 138-151, 2016
- [28] Sakallioğlu, T., Bakirdoven, M., Temizel, I., Demirel B., **Coptly, N. K.**, Onay, T. T., Uyguner Demirel, C. S., Karanfil, T., Leaching of nano-ZnO in municipal solid waste, *Journal of Hazardous Materials*, 317, 319-326, 2016
- [29] Pechstein, A., Attinger, S., Krieg, R., **Coptly, N. K.**, Estimating transmissivity from single-well pumping tests in heterogeneous aquifers, *Water Resources Research*, 52, 495–510, doi:10.1002/2015WR017845, 2016

- [30] Dokou Z., Karatzas G.P., Aydin Sarikurt, D., Copty, N.K., Optimizing ethanol enhanced NAPL remediation using evolutionary algorithms, *International Conference on Efficient & Sustainable Water Systems Management toward Worth Living Development, 2nd EWaS 2016* held in Chania, Greece, 1-4 June, 2016. *Procedia Engineering* 162 (2016) 317 – 323
- [31] Dülger, M., Sakallioğlu, T., Temizel, I., Demirel, B., **Copty, N. K.**, Onay, T. T., Uyguner Demirel, C. S., Karanfil, T., Leaching potential of nano-scale titanium dioxide in fresh municipal solid waste, *Chemosphere*, 144 1567–1572, 2016
- [32] Gülbaz, S., Kazezyilmaz-Alhan, C. M., **Copty, N. K.**, Evaluation of heavy metal removal capacity of bioretention systems, *Water Air and Soil Pollution*, 226:376, DOI 10.1007/s11270-015-2640-y, 2015
- [33] Agaoglu, B., **Copty, N. K.**, Scheytt, T., Hinkelmann, R., Interphase mass transfer in porous media: A review, *Advances in Water Resources*, 79 162–194, 2015.
- [34] Kucuker, M. A., Guney, M., Oral, H. V., **Copty, N. K.**, Onay, T. T., Impact of deforestation on soil carbon stock and its spatial distribution in the western Black Sea Region of Turkey, *Journal of Environmental Management*, 147, 227-235, 2015.
- [35] Papadonikolaki, G. S., Altan, Y. C., Stamou, A. I., Otay, E. N., Christodoulou, G. C., **Copty, N. K.**, Tsoukala, V. K., Telli-Karakoc, F., Papadopoulos, A., Risk assessment of oil spill accidents, risk assessment of oil spill accidents, *Global Network for Environmental Science and Technology Journal*, 16(4), 743-752, 2014.
- [36] Oral, H. V., Guney, M., Kucuker, M. A., Onay, T. T., **Copty, N. K.**, Mater, B., Yenigun, O., Impact of hazelnuts in land-use changes on soil carbon and in-situ soil respiration dynamics, *Journal of Environmental Management*, 129, 341-349, 2013
- [37] Oztürk, M., **Copty, N. K.**, and Saysel, A. K., Modeling the impact of land use change on the hydrology of a rural watershed, *Journal of Hydrology*, 497, 97-109, <http://dx.doi.org/10.1016/j.jhydrol.2013.05.022>, 2013.
- [38] Sarioglu, M. S., Kucuker, M. A., **Copty, N. K.**, Multispecies hydrodynamic dispersion under high concentration gradients, *Journal of Contaminant Hydrology*, 144(1), 58-65, doi:10.1016/j.jconhyd.2012.10.005, 2013.
- [39] Agaoglu, B., Scheytt, T., **Copty, N. K.**, Laboratory-scale experiments and numerical modeling of cosolvent flushing of multi-component NAPLs in saturated porous media, *Journal of Contaminant Hydrology*, 140-141, 80-94, doi:10.1016/j.jconhyd.2012.07.005, 2012.
- [40] Aksoy Ersenkal, D., Ziylan, A., Ince, N. H., Yagci Acar, H., Demirer, M., **Copty, N. K.**, Impact of dilution on the transport of Poly(Acrylic Acid) supported magnetite nanoparticles in porous media, *Journal of Contaminant Hydrology*, 126(3-4), 248-257, doi:10.1016/j.jconhyd.2011.09.005, 2011.
- [41] **Copty, N. K.**, Trincherro, P., Sanchez-Vila, X., Inferring the spatial distribution of the radially-integrated transmissivity from pumping tests in heterogeneous confined aquifers, *Water Resources Research*, 47, W05526, doi:10.1029/2010WR009877, 2011.
- [42] Akgoze Aydin, G., Agaoglu, B., Kocasoy, G., **Copty, N. K.**, Effect of temperature on cosolvent flooding for the enhanced solubilization and mobilization of NAPLs in porous media, *Journal of Hazardous Materials* 186, 636–644, 2011.

- [43] Onay, T.T., **Copty, N.K.**, Demirel, B., Bacioglu, A., Impact of food waste fraction in municipal solid waste on sorption of heavy metals, *Waste Management and Research*, 28, 936–943 doi:10.1177/0734242X09349556, 2010.
- [44] Guney, M., Onay, T. T., **Copty, N. K.**, Impact of overland traffic on heavy metal levels in highway dust and soils of Istanbul, Turkey, *Environmental Monitoring and Assessment*, 164(1), 101-110, 10.1007/s10661-009-0878-9, 2010.
- [45] Yazar, A., Onucyildiz, M., **Copty, N. K.**, Modelling level change in lakes using neuro-fuzzy and artificial neural networks, *Journal of Hydrology*, 365, 329–334, 2009.
- [46] **Copty, N. K.**, Trincherro, P., Sarioglu, M. S., Findikakis, A. N., Sanchez-Vila, X., Analysis of pumping tests in heterogeneous leaky aquifers, *Water Resources Research*, 44, W11419, doi:10.1029/2008WR007120, 2008.
- [47] Sarioglu, M. S., **Copty, N. K.**, Modeling the enhanced bioremediation of organic contaminants in pyrite-containing aquifers, *Transport in Porous Media* 75(2), 203-221, 10.1007/s11242-008-9218-8, 2008.
- [48] Trincherro, P., Sanchez-Vila, X., **Copty, N. K.**, Findikakis, A. N., A new method to interpret pumping tests in leaky aquifers, *Ground Water* 46(1), 133-143, 2008.
- [49] **Copty, N. K.**, Sarioglu, M. S., Findikakis, A., Equivalent transmissivity of heterogeneous leaky aquifers for steady-state radial flow, *Water Resources Research*, 42, W04416, doi:1029/2005WR004673, 2006.
- [50] **Copty, N. K.**, Findikakis, A., Bayesian identification of the local transmissivity using time-drawdown data from pumping tests, *Water Resources Research*, 40, W12408, doi:1029/2004WR003354, 2004.
- [51] **Copty, N. K.**, Ergene, D., Onay, T., A stochastic model for landfill gas transport and energy recovery, *Journal of Environmental Engineering*, 130(9), 1042-1049, 2004.
- [52] **Copty N. K.**, Findikakis, A., Stochastic analysis of pumping test drawdown data in heterogeneous geologic formations, *Journal of Hydraulic Research*, 42, 59-67, 2004.
- [53] **Copty, N. K.**, Findikakis, A., Quantitative estimates of the uncertainty in the evaluation of ground water remediation schemes, *Ground Water*, 38(1), 29-37, 2000.
- [54] **Copty, N. K.**, Rubin, Y., A stochastic approach to the characterization of lithofacies from surface seismic and well data, *Water Resources Research*, 31(7), 1673-1686, 1995.
- [55] **Copty, N. K.**, Rubin, Y., Mavko, G., Geophysical-hydrological identification of field permeabilities through Bayesian updating, *Water Resources Research*, 29(8), 2813-2825, 1993.

BOOK CHAPTER

- [1] Öztürk, M., N. K. Copty, Landscape Planning for Sustainable Groundwater Resources, in *New Approaches to Spatial Planning and Design: Planning, Design, Applications*, Edited by Murat Özyavuz, Peter Lang Publication, 2019
- [2] Uyguner-Demirel, C. S., Demirel, B., Copty, N. K., Onay, T. T., Presence, Behavior and Fate of Engineered Nanomaterials in Municipal Solid Waste Landfills in *Nanotechnologies for Environmental Remediation*, Editors G. Lofrano, G. Libralato, J. Brown, Springer, 2017

CONFERENCE PROCEEDINGS EDITOR

- [1] Hadi, K., and Coptly, N. K., Editors, *Proceedings of the 6th International Association of Hydraulic Research and Engineering (IAHR) International Groundwater Symposium*, held in Kuwait, 19-21 November, 2012
- [2] Kazezyilmaz Alhan, C. M., and Coptly, N. K., Editors, *Proceedings of the International Water Association (IWA) 4th Conference on Diffuse Pollution and Eutrophication (DIPCON 2022)* held in Istanbul, Turkey, 24-28 October, 2022, pp. 495, ISBN 978-605-7880-13-0

CONFERENCE PROCEEDINGS

- [3] Ongar, Y., Tezel, U., Demirel, B., Coptly, N. K., Fate and transport of some commonly used pesticides in the Konya Plain, Turkey, *Proceedings of the International Water Association (IWA) 4th Conference on Diffuse Pollution and Eutrophication (DIPCON 2022)* held in Istanbul, Turkey, 24-28 October, 2022, pp. 434-437
- [4] Di Addario, M., Temizel, I., Onay, T. T., Demirel B., Coptly, N. K., Ruggeria, B., A Fuzzy-Logic based model to predict the effects of ZnO Nanoparticles on Methane Generation in Landfills, *Proceedings of the 6th International Symposium on Energy from Biomass and Waste*, Venice, Italy, November 14-17, 2016
- [5] Dokou, Z., Stampouli, A., Karatzas, G. P., Sarikurt, D. A., Coptly, N. K., Modeling ethanol-enhanced DNAPL remediation in a two-dimensional experimental setting, *Proceedings of the 14th International Conference on Environmental Science and Technology* held in Rhodes, Greece, 3-5 September, 2015.
- [6] Stamou A. I., Otay E. N., Tsoukala V. K., Coptly N. K., Karakoc F. T., Christodoulou G., Papadopoulou A., Papadonikolaki G. and Altan Y. C., Risk assessment of oil spill accidents. Part 1: presentation of the methodology, *Proceedings of the 13th International Conference on Environmental Science and Technology* held in Athens, Greece, 5-7 September, 2013.
- [7] Otay E. N., Stamou A. I., Altan Y. C., Papadonikolaki G., Coptly N. K., Christodoulou G., Karakoc F. T., Tsoukala V. K., Koutsoyiannis D. and Papadopoulou A., Risk assessment of oil spill accidents. Part 2: Application to Saronikos Gulf and Izmir Bay, *Proceedings of the 13th International Conference on Environmental Science and Technology* held in Athens, Greece, 5-7 September, 2013.
- [8] Gokdemir, C., Coptly, N. K., Waterman, M., Findikakis, A. N., Analysis of time-drawdown data from heterogeneous leaky aquifer systems, *Models Repositories of Knowledge, Proceedings of the ModelCARE 2011 conference* held in Leipzig, Germany in September 2011, Edited by Sascha E. Oswald, Olaf Kolditz & Sabine Attinger, pp. 229-236, 2012
- [9] Coptly, N. K., Trincherro, P., Sanchez-Vila, X., Analysis of pumping tests for the characterization of heterogeneous transmissivity fields, *Proceedings of the Seventh International Conference on Calibration and Reliability in Groundwater Modelling: Credibility and Modelling, ModelCARE 2009*, Wuhan, China, 20-23 September 2009, pp. 251-254.

- [10] Akgoze Aydin, G., Agaoglu, B., Copty, N. K., Kocasoy, G., Influence of flooding solution composition and temperature on the enhanced solubilization and recovery of NAPLs in porous media, *Proceedings of the IAHR International Groundwater Symposium*, Istanbul, Turkey, 18-20 June, 2008, pp. 1003-1011.
- [11] Aksoy, D., Ziylan, A., Ince N. H., Yagci Acar H. F., Copty N. K., Transport of superparamagnetic iron oxide nanoparticles in porous media, *Proceedings of the IAHR International Groundwater Symposium*, Istanbul, Turkey, 18-20 June, 2008, pp. 299-307.
- [12] Ozturk, M., Copty, N. K., Bozkurtoglu, E., Saysel, A. K., Development of a Coupled Land Use-Hydrodynamic Model for Bartın Spring Watershed, Turkey, *Proceedings of the IAHR International Groundwater Symposium*, Istanbul, Turkey, 18-20 June, 2008, pp. 251-260.
- [13] Trincherro, P., Copty, N. K., Findikakis, A. N., Sanchez-Vila, X., The Double Inflection Point Method for the Analysis of Pumping Tests in Leaky Aquifers, *Proceedings of ModelCARE 2007, the Sixth International Conference on Calibration and Reliability in Groundwater Modelling: Credibility and Modelling*, Copenhagen, Denmark, 9-13 September 2007, pp. 599-604.
- [14] Ozturk, M., Saysel, A. K., Copty, N. K., Aydın, A., A GIS-based dynamic land use model for Bartın-Ulupınar watershed management, *Proceedings of the International Congress on River Basin Management, General Directorate of State Hydraulic Works*, Antalya, Turkey, 22-24 March, 2007, Volume 2, pp. 207-219.
- [15] Akgoze Aydin, G., Copty, N. K., Chemical Agent Combinations for the Enhanced Removal of DNAPLs from Contaminated Groundwater Systems, *Proceedings of the 10th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management*, International Water Association, Istanbul, Turkey 18-22 September, 2006.
- [16] Copty, N. K.; Sarioglu, M. S., Findikakis, A., Trincherro, P., Sanchez-Vila, X., Estimation of Flow Parameters in Heterogeneous Leaky Aquifers, *Proceedings of the IAHR International Groundwater Symposium on Groundwater Hydraulics in Complex Environments*, Toulouse, France, 12-14 June, 2006.
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CONFERENCE ORAL AND POSTER PRESENTATIONS

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- [2] Daloğlu Çetinkaya, I., Uygur, I., Saysel, A. K., Yoloğlu, O. C., Copty, N. K., Groundwater use in a semi-arid area: Governance of an overexploited resource, presented at the Sustain Valencia Conference held in Valencia Spain, Oct. 6-8, 2022
- [3] Yoloğlu, O.C., Copty, N. K., Tunca, M. C., Daloğlu, I., Saysel, A. K., Regional-Scale Modeling of Surface-Subsurface Flow: The Konya Closed Basin Case Study, presented at the 7th IAHR Europe Congress held in Athens, Greece, 7-9 September 2022
- [4] Yoloğlu, O.C., Copty, N. K., Uygur, İ, Tunca, M. C., Bal, E., Yetiştı, B., Daloğlu, I., Saysel, A. K., Coupled Surface-Subsurface Hydrological Model for the Estimation of Net Recharge of the Konya Closed Basin, Turkey, presented at the 14th International Conference on Geostatistics for Environmental Applications (GeoEnv 2022) held in Parma, Italy, 20-22 June 2022
- [5] Jomaa, S., Ben-Salem, N., Chávez, R., ... Copty N.K., Inclusive and resilient groundwater assessment towards sustainable development in the Mediterranean region, presented at the XIth Scientific Assembly of the International Association of Hydrological Sciences (IAHS 2022) in Montpellier (France) from 29 May to 3 June 2022
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