

# RECEP KAYA GÖKTAŞ

## ASSOC. PROF.

Email : rkaya.goktas@kocaeli.edu.tr

Office Phone : [+90 262 303 3187](tel:+902623033187)

Address : Kocaeli Üniversitesi Çevre Mühendisliği Bölümü  
Umuttepe Yerleşkesi Mühendislik Fakültesi A Blok 41001 İzmit  
KOCAELİ

### International Researcher IDs

ScholarID: Dw1IkOsAAAAJ

ORCID: 0000-0003-1968-066X

Publons / Web Of Science ResearcherID: F-4864-2018

ScopusID: 8686923300

Yoksis Researcher ID: 153632



## Learning Knowledge

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Doctorate 2005 - 2011	Georgia Institute of Technology, School Of Civil And Environmental Engineering, Environmental Engineering, United States Of America
Postgraduate 2001 - 2004	Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey
Undergraduate 1997 - 2001	Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey

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## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Contaminant Fate and Transport Analysis in Soil-Plant Systems, Georgia Institute of Technology, 2011

Postgraduate, Application of genetic algorithms to calibration and verification of QUAL2E model, Middle East Technical University, Graduate School Of Natural And Applied Sciences, 2004

## Academic Titles / Tasks

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Assistant Professor 2018 - Continues	Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği
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Assistant Professor 2014 - 2018	Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği
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Expert  
2014 - 2014

Stockholms Universitet (Stockholm University), Department Of Applied  
Environmental Science, Department Of Applied Environmental Science

Research Assistant  
2004 - 2014

Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği

Research Assistant  
2009 - 2010

Georgia Institute of Technology, Mühendislik Fakültesi, İnşaat Ve Çevre  
Mühendisliği

Research Assistant  
2001 - 2004

Middle East Technical University, Faculty Of Engineering, Department Of  
Environmental Engineering

## Supported Projects

1. GÖKTAŞ R. K., ACAREL D., BALTACI H., GÖKTAŞ Ç., Project Supported by Higher Education Institutions, Atmosferik sirkülasyon paternlerinin, yerel meteorolojik koşulların ve deprem olaylarının bölgesel olarak partikül madde artışına etkisinin araştırılması ve kaynak bölgelerinin belirlenmesi, 2024 - Continues
2. CİVAN M., YENİSOY KARAKAŞ S., YURTSEVER M., DOĞAN G., CAN DOĞAN E., GÖKTAŞ R. K., KASIM M. U., ARSLANBAŞ D., Project Supported by Higher Education Institutions, ÖRTÜALTI DOMATES YETİŞTİRİCİLİĞİNDE MİKRO ve NANOPLASTİK KİRLİLİĞİNİN ve BİTKİYE GEÇİŞİNİN İNCELENMESİ, 2023 - Continues
3. Civan M., Can Doğan E., Kasım M. U., Göktaş R. K., Arslanbaş D., Yenisoy Karakaş S., Yurdakul S., Yurtsever M., TUBITAK Project, Topraksız Tarım Yöntemiyle Yetiştirilen Domateslerde Mikro-Nano Plastik Seviyelerinin Tespiti, Bitkiye Geçişlerinin Modellenmesi ve Kaynaklarının Belirlenmesi, 2024 - 2027
4. Özbay İ., Göktaş R. K., Çallı B., Özbay B., TUBITAK Project, Investigation of the efficiency of the bio-drying process in obtaining fuel-qualified products from municipal solid wastes and developing a mathematical model for the process, 2023 - 2025
5. CİVAN M., ARSLANBAŞ D., GÖKTAŞ R. K., Project Supported by Higher Education Institutions, İzmit Kent Atmosferinde Ftalat Seviyelerinin Değerlendirilmesi, 2024 - 2024
6. Göktaş R. K., Civan M., Ergül H. A., Pekey B., Karademir A., TUBITAK Project, İzmit Körfezi için Çok-Ortamlı Polisiklik Aromatik Hidrokarbon Akıbeti Modeli Geliştirilmesi, 2018 - 2022
7. GÖKTAŞ R. K., HASANOĞLU S., Project Supported by Higher Education Institutions, İZMİT KÖRFEZİ'NDE POLİAROMATİK HİDROKARBON KİRLİLİĞİNİN FUGASİTE BAZLI İNCELEMESİ, 2019 - 2020
8. Tezel U., Göktaş R. K., TUBITAK Project, Ergene Havzası Su Kalitesi Yönetimi İçin Kirletici Parmak İzine Bağlı Coğrafi Bilgi Sistemi Bazlı Karar Destek Sistemleri Geliştirilmesi, 2016 - 2019
9. GÖKTAŞ R. K., MacLeod M., TUBITAK Project, Yüksek Coğrafi Çözünürlükte Küresel Ölçekli Çok Ortam Kimyasal Akıbeti Modellemesi, 2016 - 2017
10. Göktaş R. K., Karademir A., Ergül H. A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Çevresel Kirliliği Azaltılması İçin Risk Temelli Bir Yaklaşımla Kirli Alanların Değerlendirilmesi, 2013 - 2015

## Scholarships

Doktora Eğitimi, YOK, 2005 - 2009

## Jury Memberships

Doctorate, Doctorate, Kocaeli Üniversitesi, June, 2020

Post Graduate, Post Graduate, Boğaziçi Üniversitesi, November, 2019

## Designed Lessons

Göktaş R. K., Multimedia Environmental Modeling, Doctorate, 2016 - 2017

Göktaş R. K., Computer Applications in Environmental Engineering, Undergraduate, 2014 - 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Phthalate ester levels in agricultural soils of greenhouses, their potential sources, the role of plastic cover material, and dietary exposure calculated from modeled concentrations in tomato**  
Yesildagli B., Göktaş R. K., Ayaz T., Olgun B., Dokumacı E. N., Özkaleli M., Erdem Ünşar A., Yurtsever M., Doğan G., Yurdakul S., et al.  
Journal of Hazardous Materials, vol.468, 2024 (SCI-Expanded)
- 2. Fugacity-based analysis of polycyclic aromatic hydrocarbon pollution in Izmit Bay, Turkey: An analytical framework for assessment with limited data**  
Hasanoğlu S., Göktaş R. K.  
MARINE POLLUTION BULLETIN, vol.182, 2022 (SCI-Expanded)
- 3. Simultaneous disinfection of E. faecalis and degradation of carbamazepine by sulfate radicals: An experimental and modelling study**  
Liu K., Bai L., Shi Y., Wei Z., Spinney R., GÖKTAŞ R. K., Dionysiou D. D., Xiao R.  
ENVIRONMENTAL POLLUTION, vol.263, 2020 (SCI-Expanded)
- 4. Inactivation of pathogenic microorganisms by sulfate radical: Present and future**  
Xiao R., Liu K., Bai L., Minakata D., Seo Y., GÖKTAŞ R. K., Dionysiou D. D., Tang C., Wei Z., Spinney R.  
CHEMICAL ENGINEERING JOURNAL, vol.371, pp.222-232, 2019 (SCI-Expanded)
- 5. Profiling wines in China for the biogenic amines: A nationwide survey and pharmacokinetic fate modelling**  
KE R., WEI Z., BOGDAL C., GÖKTAŞ R. K., Xiao R.  
FOOD CHEMISTRY, vol.250, pp.268-275, 2018 (SCI-Expanded)
- 6. Remoteness from sources of persistent organic pollutants in the multi-media global environment**  
GÖKTAŞ R. K., MacLeod M.  
ENVIRONMENTAL POLLUTION, vol.217, pp.33-41, 2016 (SCI-Expanded)
- 7. Integrated Dynamic Modeling of Contaminant Fate and Transport within a Soil-Plant System**  
GÖKTAŞ R. K., Aral M. M.  
VADOSE ZONE JOURNAL, vol.10, no.4, pp.1130-1150, 2011 (SCI-Expanded)
- 8. Exploring Engineering Graduate Student Research Proficiency with Student Surveys**  
Rogers S. W., Goktas R. K.  
JOURNAL OF ENGINEERING EDUCATION, vol.99, no.3, pp.263-278, 2010 (SCI-Expanded)
- 9. Calibration and verification of QUAL2E using genetic algorithm optimization**  
GÖKTAŞ R. K., AKSOY A.  
Journal Of Water Resources Planning And Management-Asce, vol.133, pp.126-136, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- 1. Evaluation of the environmental exposure risks of pesticides used in vegetable production in Türkiye**  
Kula E. P., Göktaş R. K.

- Environmental Research & Technology, vol.7, no.1, pp.83-96, 2024 (Peer-Reviewed Journal)
- SERA ZİRAİ TOPRAĞINDA TOPLAM PESTİSİT SEVİYELERİ VE SERA ÖZELLİKLERİ İLE PESTİSİT SEVİYELERİ ARASINDAKİ İLİŞKİNİN DEĞERLENDİRİLMESİ**  
Serttaş A., Ayaz T., Yurdakul S., Doğan G., Göktaş R. K., Civan M.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.9, no.3, pp.900-910, 2021 (Peer-Reviewed Journal)
  - Yenicegözü Havzası'ndaki Yağış-Akış İlişkisinin HEC-HMS Hidrolojik Modeli ile Belirlenmesi**  
Mesta B., Kargı P. G., Tezyapar İ., AYVAZ M. T., GÖKTAŞ R. K., KENTEL ERDOĞAN E., TEZEL U.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.25, no.8, pp.949-955, 2019 (ESCI)
  - Genetik Algoritma Yardımıyla Model Kalibrasyonu Aşağı Seyhan Nehri Örneği**  
Göktaş R. K., Aksoy A.  
Çevre, Bilim ve Teknoloji, vol.3, no.3, pp.169-186, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

- Hazardous pollutants in the water environment**  
GÖKTAŞ R. K., MACLEOD M.  
in: Hazardous Pollutants in Biological Treatment Systems, Ferhan Çeçen, Ulaş Tezel, Editor, IWA Publishing, London, pp.17-67, 2018

## Refereed Congress / Symposium Publications in Proceedings

- İzmit Körfezi'nde Görülen Alg Çoğalmaları ve Ekolojik Kalite Üzerine Bir Çalışma**  
ERGÜL H. A., Koral M., Aldemir H., GÖKTAŞ R. K., AKSAN S.  
Marmara Denizi 2022 Sempozyumu, İstanbul, Turkey, 8 - 09 January 2022, pp.61-68
- İzmit Körfezi'nde Polisiklik Aromatik Hidrokarbon Akıbeti: Çok-Ortamlı Modelleme Verisi Elde Etmek için Gerçekleştirilen Saha Çalışmaları**  
Çavuşoğlu S., AKSAN S., BAYKÖSE A., Ayaz T., Tezyapar İ., Akyıldız H. B., ERGÜL H. A., CİVAN M., BİRGÜL A., PEKEY B., et al.  
Marmara Denizi 2022 Sempozyumu, İstanbul, Turkey, 8 - 09 January 2022, pp.54-60
- İzmit Körfezi'nde Polisiklik Aromatik Hidrokarbon Akıbeti: Ön Modelleme Çalışması**  
HASANOĞLU S., GÖKTAŞ R. K.  
Marmara Denizi 2022 Sempozyumu, İstanbul, Turkey, 8 - 09 January 2022, pp.69-75
- Nehir Suyu Kalitesi Gözlem Verileri Yardımıyla Kimyasal Kirleticilerin Nehir Deşarjlarının Belirlenmesi**  
Tezyapar İ., AYVAZ M. T., GÖKTAŞ R. K., Kargı P. G., KENTEL ERDOĞAN E., Mesta B., TEZEL U.  
13. Ulusal 1. Uluslararası Çevre Mühendisliği Kongresi, 10 - 12 October 2019
- İZMİT KÖRFEZİ'NE AİT ÇEVRESEL ORTAMLARDA POLİAROMATİK HİDROKARBON KİRLİLİĞİNİN FUGASİTE BAZLI İNCELEMESİ**  
Hasanoğlu S., GÖKTAŞ R. K.  
13. ULUSAL 1. ULUSLARARASI ÇEVRE MÜHENDİSLİĞİ KONGRESİ, 10 - 12 October 2019
- İzmit Körfezi'nde Polisiklik Aromatik Hidrokarbon Kirliliğinin Tarihçesi ve Fugasite Bazlı İncelemesi**  
HASANOĞLU S., GÖKTAŞ R. K.  
Uluslararası Tarım, Çevre ve Sağlık Kongresi, Aydın, Turkey, 26 - 28 October 2018
- Yenicegözü Havzası'ndaki Yağış-Akış İlişkisinin HEC-HMS Hidrolojik Modeli ile Belirlenmesi**  
MESTA B., KARGI P. G., AYVAZ M. T., GÖKTAŞ R. K., KENTEL ERDOĞAN E., TEZEL U.  
International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.200-207
- Nehir suyu kalite gözlem sonuçlarının hidrolik ve taşınım modelleri yardımıyla incelenmesi**  
GÖKTAŞ R. K., AYVAZ M. T., Kargı P. G., KENTEL ERDOĞAN E., Mesta B., Tezyapar İ., TEZEL U.

International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018

9. **Nehir Suyu Kalitesi Gözlem Sonuçlarının Hidrolik ve Taşınım Modelleri Yardımıyla İncelenmesi**  
TEZYAPAR İ., KARGI P. G., MESTA B., AYVAZ M. T., GÖKTAŞ R. K., KENTEL ERDOĞAN E., TEZEL U.  
Uluslararası Kentsel Su ve Atıksu Yönetimi Sempozyumu (UKSAY)-2018, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.1061-1068
10. **Weekly flow prediction of Ergene river using an artificial neural network based solution approach**  
AYVAZ M. T., TEZEL U., KENTEL ERDOĞAN E., GÖKTAŞ R. K.  
13 th International Conference on Hydroinformatics, 1 - 06 July 2018
11. **Effect of land surface elevation data availability on river hydraulic model output**  
GÖKTAŞ R. K., AYVAZ M. T., KARGI P. G., KENTEL ERDOĞAN E., MESTA B., TEZYAPAR İ., TEZEL U.  
European Geosciences Union General Assembly 2018, Viyana, Austria, 8 - 13 April 2018, vol.20
12. **Effect of using extreme years in hydrologic model calibration performance**  
GÖKTAŞ R. K., TEZEL U., KARGI P. G., AYVAZ M. T., TEZYAPAR İ., MESTA B., KENTEL ERDOĞAN E.  
American Geophysical Union (AGU) 2017 Fall Meeting, New Orleans, United States Of America, 11 - 15 December 2017
13. **Global Scale Multimedia Chemical Fate Modeling in High Spatial Resolution Introducing BETR Research 3 0**  
GÖKTAŞ R. K., WÖHRNSCHİMMELE H., SCHENKER S., VON WALDOW H., MACLEOD M.  
7th SETAC World Congress / SETAC North America 37th Annual Meeting, Orlando, United States Of America, 6 - 10 November 2016
14. **CONTAMINATED SITES WITH RISK BASED APPROACH TURKISH AND ROMANIAN PRACTICE**  
KARADEMİR A., GÖKTAŞ R. K., COCARTA D., ROBESCU D.  
3rd Science for the Environment Conference, Arhus, Denmark, 1 - 02 October 2015
15. **İzmit Körfezi nde PAH Taşınımı Kavramsal Model ve Veri Gereksinimleri**  
GÖKTAŞ R. K., KARADEMİR A.  
10. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 12 - 14 September 2013
16. **An Integrated Modeling Approach for Organic Chemical Contamination in Plants**  
GÖKTAŞ R. K.  
Awareness Raising Workshop: Pesticide Residues in Closed Cropping and Organic Pollutants in the Turkish Environment, Aydın, Turkey, 10 - 12 March 2014
17. **Plant Pathway Modeling for Health Risk Assessment The Importance of Incorporating the Terrestrial Environmental Processes**  
GÖKTAŞ R. K.  
6th International Perspective on Water Resources & the Environment, İzmir, Turkey, 7 - 09 January 2013
18. **The Online Survey An Efficient and Effective Means of Engineering Graduate Student Assessment**  
PADHYE L., GOLDMAN G., SZEINBAUM N., ROGERS S., GÖKTAŞ R. K., KURT Z.  
Proceedings, 2009 ASEE Annual Conference and Exposition, Austin, Texas, United States Of America, 14 - 17 June 2009
19. **Exploring Academic Factors Affecting Engineering Graduate Student Research Proficiency**  
ROGERS S., GÖKTAŞ R. K., TEZEL U.  
Proceedings, 2007 ASEE Annual Conference and Exposition, 24 - 27 June 2007
20. **The Impact of Objective Function Formulations on the Optimal Calibration of QUAL2E**  
GÖKTAŞ R. K., AKSOY A.  
Proceedings of World Water and Environmental Resources Congress 2005, 15 - 19 May 2005
21. **Application of Genetic Algorithms for Calibration and Verification of QUAL2E Model**  
GÖKTAŞ R. K., AKSOY A.  
Proceedings of World Water and Environmental Resources Congress 2004, 27 June - 01 July 2004
22. **Calibration and verification of QUAL2E for the reaeration coefficient using genetic algorithms**  
GÖKTAŞ R. K., AKSOY A.  
Proceedings of the 13th Turkish Symposium on Artificial Intelligence and Artificial Neural Networks, 10 - 11 June 2004, pp.201-207

## Academic and Administrative Experience

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2023 - Continues **Deputy Head of Department** Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği

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### Courses

Environmental Remediation, Undergraduate, 2023 - 2024, 2021 - 2022, 2019 - 2020  
Computer Applications in Environmental Engineering, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Multimedia Environmental Modeling, Doctorate, 2022 - 2023, 2021 - 2022, 2019 - 2020  
Computer Programming, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018  
Analysis of Environmental Systems, Undergraduate, 2020 - 2021, 2017 - 2018

### Advising Theses

Göktaş R. K., Analysis of Environmental Fate of Pesticides Used in Vegetable Production by Multi-Media Transport Models, Postgraduate, E.Pınar(Student), 2024  
Göktaş R. K., Investigation of Multimedia Polycyclic Aromatic Hydrocarbon Pollution in Izmit Bay by Observation and Modeling Studies, Postgraduate, S.Çavuşoğlu(Student), 2022  
Göktaş R. K., Fugacity-based Analysis of Polyaromatic Hydrocarbon Pollution in Izmit Bay, Postgraduate, S.Hasanoğlu(Student), 2019  
Göktaş R. K., Development of Hydraulic and Pollutant Transport Models for Ergene River, Postgraduate, İ.Tezyapar(Student), 2019

### Activities in Scientific Journals

Kocaeli Journal of Science and Engineering, Committee Member, 2017 - Continues

### Scientific Refereeing

ENVIRONMENTAL POLLUTION, SCI Journal, November 2024  
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, March 2024  
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, December 2023  
Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, November 2023  
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, August 2021  
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, September 2018  
ENVIRONMENTAL SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, January 2018

### Tasks In Event Organizations

Taştan R., Göktaş R. K., VI. International Earthquake Symposium (IESKO 2019), Scientific Congress, Kocaeli, Turkey, Eylül 2019

## Scientific Research / Working Group Memberships

Katı Ve Tehlikeli Atık Laboratuvarı, Kocaeli University, Turkey, <https://avesis.kocaeli.edu.tr/arastirma-grubu/katal>, 2022  
- Continues

## Metrics

Publication: 37  
Citation (WoS): 256  
Citation (Scopus): 302  
H-Index (WoS): 6  
H-Index (Scopus): 7

## Research Areas

Environmental Engineering, Environmental Technology, Environmental Modeling, Engineering and Technology