# Asst. Prof. Başak SAVUN

## **Personal Information**

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#### **Education**

Doctorate, Bogazici University, Institute Of Environmental Sciences, Department Of Environmental Technology, Turkey 2011 - 2019

#### **Foreign Languages**

English, C2 Mastery

### **Research Areas**

Environmental Engineering, Environmental Sciences, Environmental Technology, Marine Sciences and Technology, Coastal Sciences, Oceanography

## Journal articles indexed in SCI, SSCI, and AHCI

 Material Design for Synergistic Advanced Oxidation Processes
 SAVUN B., KORKMAZ N., AKSU A., TAŞKIN Ö. S., ÇAĞLAR N., Nurmanov S., Turabov N., Turaev K., Ruzimuradov O. Water, Air, and Soil Pollution, vol.235, no.7, 2024 (SCI-Expanded)

 Optimization of wastewater treatment systems for growing industrial parks
 SAVUN HEKİMOĞLU B., İşler Z., Hekimoğlu M., BURAK Z. S., Karlı D., Yücekaya A., Akpınar E., Ediger V. Ş.
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 Occurrence and environmental risk assessment of antifouling paint biocides in the Golden Horn
 Estuary, Sea of Marmara, Turkey
 KORKMAZ N., Kapudan T., TAŞKIN Ö. S., AKSU A., SAVUN HEKİMOĞLU B., Balkıs N. Ç.
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 Occurrence, sources and environmental risk assessment of pharmaceuticals in the Sea of Marmara, Turkey
 E. Korkmaz N., Savun-Hekimoğlu B., Aksu A., Burak Z. S., Caglar N. B.

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V. Oxidative decomposition and mineralization of caffeine by advanced oxidation processes: The effect of hybridization

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VI. Evaluation of water supply alternatives for Istanbul using forecasting and multi-criteria decision making methods

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- VII. Catalytic ozonation of caffeine with sepiolite: Effects of impregnation with zero-valent iron and ultrasound Savun-Hekimoglu B., Eren Z., Ince N. H. ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.40, no.2, 2021 (SCI-Expanded)
- VIII. Photocatalytic Destruction of Caffeine on Sepiolite-Supported TiO2 Nanocomposite Savun-Hekimoglu B., Eren Z., Ince N. H. SUSTAINABILITY, no.24, 2020 (SCI-Expanded)
  - IX. Hydroxyl radical-mediated degradation of salicylic acid and methyl paraben: an experimental and computational approach to assess the reaction mechanisms
     Arslan E., Hekimoglu B., Cinar S. A., Ince N., Aviyente V.
     ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.32, pp.33125-33134, 2019 (SCI-Expanded)
  - X. Optimization of methylparaben degradation by sonocatalysis
     Savun-Hekimoglu B., Ince N. H.
     ULTRASONICS SONOCHEMISTRY, vol.58, 2019 (SCI-Expanded)
  - XI. Sonochemical and sonocatalytic destruction of methylparaben using raw, modified and SDSintercalated particles of a natural clay mineral Savun-Hekimoglu B., Ince N. H.
     ULTRASONICS SONOCHEMISTRY, vol.54, pp.233-240, 2019 (SCI-Expanded)
- XII. Decomposition of PPCPs by ultrasound-assisted advanced Fenton reaction: A case study with salicylic acid (Reprinted from Ultrasonics Sonochemistry, vol 39, pg 243-249, 2017)
   Savun-Hekimoglu B., Ince N. H.
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XIV. Pretreatment of Sewage Sludge by Low-frequency Ultrasound
 Savun B., Neis U., Ince N. H., Yenigun O.
 JOURNAL OF ADVANCED OXIDATION TECHNOLOGIES, vol.15, no.2, pp.374-379, 2012 (SCI-Expanded)

# Articles Published in Other Journals

 I. Multi-Criteria Decision-Making Analysis for the Selection of Desalination Technologies Hekimoğlu M., Savun Hekimoğlu B., Erbay B., Gazioğlu C. International Journal of Environment and Geoinformatics, vol.9, no.4, pp.207-216, 2022 (Peer-Reviewed Journal)
 II. Mucilage Problem in the Semi-Enclosed Seas: Recent Outbreak in the Sea of Marmara Savun Hekimoğlu B., Gazioğlu C.

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III. A Comparative MCDM Analysis of Potential Short-Term Measures for Dealing with Mucilage Problem in the Sea of Marmara

Savun Hekimoğlu B., Erbay B., Burak Z. S., Gazioğlu C.

International Journal of Environment and Geoinformatics, vol.8, no.4, pp.572-580, 2021 (Peer-Reviewed Journal)

 IV. Comparison of Advanced Oxidation Processes (Sonication, Fenton Reaction and Ozone-Based Processes) for Water Decolorization
 Savun Hekimoğlu B. International Journal of Environment and Geoinformatics, vol.8, pp.166-171, 2021 (Peer-Reviewed Journal)

 V. On the Use of Mathematical Models for Wastewater Treatment: A Review and Analysis of Activated Sludge Models ASM1 and ASM3
 Savun Hekimoğlu B.
 International Journal of Environment and Geoinformatics, vol.8, pp.1-18, 2021 (Peer-Reviewed Journal)

# Books

I. PHARMACEUTICALS IN THE SEA OF MARMARA, TÜRKİYE
 Çağlar N., Aksu A., Korkmaz N., Savun B.
 in: ECOLOGICAL CHANGES IN THE SEA OF MARMARA, Melek İşinibir,Ahmet Kıdeyş,Alenka Malerj, Editor, İstanbul
 University Press, İstanbul, pp.297-339, 2024

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. PRESENCE, SPATIAL DISTRIBUTION, AND RISK ASSESSMENT OF PHARMACEUTICAL COMPOUNDS IN THE SEA OF MARMARA, TURKEY
   Korkmaz N., Savun Hekimoğlu B., Aksu A., Burak Z. S., Çağlar N.
   III. ULUSAL DENİZLERDE İZLEME VE DEĞERLENDİRME SEMPOZYUMU, Antalya, Turkey, 6 - 09 December 2022, pp.81-82, (Summary Text)
- II. Assesment of water quality of Lake Bafa in Turkey
   Ülker D., Savun-Hekimoğlu B., Burak Z. S.
   IWA Digital World Water Congress, 24 May 04 June 2021, pp.1, (Full Text)
- III. Sonocatalytic Destruction of PPCP's in Water Using Costless Clay Minerals
   İNCE H. N., SAVUN HEKİMOĞLU B.
   16th Meeting of the European Society of Sonochemistry, Besançon, France, 15 19 April 2018, (Summary Text)

# Metrics

Publication: 23 Citation (WoS): 106 Citation (Scopus): 124 H-Index (WoS): 7 H-Index (Scopus): 6