

Prof. ERHAN GENGEÇ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-5836-2018

ScopusID: 54408421900

Yoksis Researcher ID: 29548

Education Information

Doctorate, Gebze Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 2007 - 2012

Postgraduate, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, Turkey 2001 - 2005

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Electrochemical Treatment of Melanoidin and Melanoid Containing Yeast Industry Wastewater , Gebze Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2012

Postgraduate, İşçi sağlığı ve iş güvenliği açısından hava ve gürültü kirliliği, Kocaeli Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2005

Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Water Pollution and Control, Water Supply and Treatment, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, İzmit Meslek Yüksekokulu, Çevre Koruma Teknolojileri, 2024 - Continues

Assistant Professor, Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, Çevre Koruma Teknolojileri, 2018 - Continues

Associate Professor, Kocaeli University, İzmit Meslek Yüksekokulu, Environmental Protection Technology, 2020 - 2024

Assistant Professor, Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, Çevre Koruma Teknolojileri, 2013 - 2018

Lecturer, Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, Çevre Koruma Teknolojileri, 2005 - 2013

Academic and Administrative Experience

Director of Vocational School, Kocaeli University, İzmit Meslek Yüksekokulu, 2021 - Continues

Head of Department, Kocaeli University, İzmit Meslek Yüksekokulu, 2020 - Continues

Assistant Director of Vocational School, Kocaeli University, İzmit Meslek Yüksekokulu, 2020 - 2021

Assistant Director of Vocational School, Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, 2015 - 2020

Head of Department, Kocaeli University, Ali Rıza Veziroğlu Meslek Yüksekokulu, Teknik Programlar Bölümü, 2013 - 2020

Courses

Elektrokimyasal Arıtma Yöntemleri, Postgraduate, 2017 - 2018, 2016 - 2017

Proje, Associate Degree, 2017 - 2018, 2016 - 2017

Çevre Kimyası, Associate Degree, 2017 - 2018, 2016 - 2017

Çevre Analiz Teknikleri, Associate Degree, 2016 - 2017

Advising Theses

Gengeç E., Grafen bazlı elektrotlarla sudan organik kirleticilerin elektro oksidasyon ile arıtımı, Postgraduate, B.DURMUŞ(Student), 2019

Gengeç E., Farklı metallerle doplanmış grafen elektrotların elektrooksidasyonla su arıtımında etkinliğinin incelenmesi, Postgraduate, M.MANAC(Student), 2019

Jury Memberships

Doctorate, Doctorate, Gebze Teknik Üniversitesi, June, 2023

Post Graduate, Post Graduate, Bursa Teknik Üniversitesi, January, 2023

Doctorate, Doctorate, Gebze Teknik Üniversitesi, January, 2023

Post Graduate, Post Graduate, Bursa Teknik Üniversitesi, December, 2022

Post Graduate, Post Graduate, Bursa Teknik Üniversitesi, August, 2022

Doctoral Examination, Doctoral Examination, Bursa Teknik Üniversitesi, February, 2022

Doctoral Examination, Doctoral Examination, Bursa Teknik Üniversitesi, February, 2022

Doctoral Examination, Doctoral Examination, Bursa Teknik Üniversitesi, February, 2022

Post Graduate, Post Graduate, Kocaeli Üniversitesi, December, 2021

Doctorate, Doctorate, Kocaeli Üniversitesi, December, 2021

Doctorate, Doctorate, Kocaeli Üniversitesi, June, 2021

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, November, 2020

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2020

Doctorate, Doctorate, Gebze Teknik Üniversitesi, June, 2020

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2020

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2020

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Doctorate, Doctorate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, July, 2019

Doctorate, Doctorate, Gebze Teknik Üniversitesi, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gebze Teknik Üniversitesi, January, 2019
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, December, 2018
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2018
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, February, 2018

Research Infrastructure Information

Gengeç E., Su Atıksu Laboratuvarı, June 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Treatment of embroidery wastewater containing poly(vinyl alcohol) by electrooxidation process**
Gengeç E., Bozbas S., Ayhan H. H.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.21, no.2, pp.1223-1234, 2024 (SCI-Expanded)
- II. **The effect of various thermochemical methods on the production of biochar and removal of 2-naphthol orange from wastewater**
Temur Ergen B., Aydin E. S., Gengeç E.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.99, no.1, pp.81-91, 2024 (SCI-Expanded)
- III. **Improving electro-fenton degradation performance using waste biomass-derived-modified biochar electrodes: A real environment textile water treatment**
Temur Ergen B., Aydin E. S., Gengeç E.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.11, no.6, 2023 (SCI-Expanded)
- IV. **A Comparative Study among the Technology Classic Fenton and Electro-Fenton for the Degradation of Polyvinyl Alcohol in Textile Industrial Wastewater**
Aldaher M., GENGEÇ E.
JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY, no.5, pp.446-454, 2023 (SCI-Expanded)
- V. **Carbonaceous CoCr LDH nanocomposite as a light-responsive sonocatalyst for treatment of a plasticizer-containing water**
Sadeghi Rad S., Khataee A., Arefi-Oskoui S., Sadeghi Rad T., Zarei M., Orooji Y., GENGEÇ E., Kobya M.
Ultrasonics Sonochemistry, vol.98, 2023 (SCI-Expanded)
- VI. **Tuned CuCr layered double hydroxide/carbon-based nanocomposites inducing sonophotocatalytic degradation of dimethyl phthalate**
Sadeghi Rad T., Sevval Yazici E., Khataee A., GENGEÇ E., Kobya M.
Ultrasonics Sonochemistry, vol.95, 2023 (SCI-Expanded)
- VII. **The used automobile catalytic converter as an efficient catalyst for removal of malathion through wet air oxidation process**
İŞGÖREN M., GENGEÇ E., VELİ S., Hassandoost R., Khataee A.
International Journal of Hydrogen Energy, vol.48, no.17, pp.6499-6509, 2023 (SCI-Expanded)
- VIII. **A techno-economical assessment of treatment by coagulation-flocculation with aluminum and iron-bases coagulants of landfill leachate membrane concentrates**
Turan A., Kobya M., Iskurt C., GENGEÇ E., Khataee A.
Chemosphere, vol.314, 2023 (SCI-Expanded)
- IX. **Ultrasound-assisted photocatalytic decomposition of rifadin with biochar and CNT-based NiCr layered double hydroxides**
Sadeghi Rad T., Yazici E. S., Khataee A., GENGEÇ E., Kobya M.
Surfaces and Interfaces, vol.36, 2023 (SCI-Expanded)
- X. **Impact of thermal modification of carbon felt on the performance of oxygen reduction reaction and**

mineralisation of dye in on-line electro fenton system

Ergan B. T., Soybelli M., GENGEÇ E.

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.103, no.20, pp.9730-9746, 2023 (SCI-Expanded)

- XI. **Polyaniline-coated charcoal ash: a novel high-capacity adsorbent for removal of thiocyanate ions from aqueous solutions**
Gengec N., Özbay B., Özbay İ., Kobya M., Gengeç E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.103, no.16, pp.3865-3883, 2023 (SCI-Expanded)
- XII. **Nanoarchitecture of graphene nanosheets decorated with NiCr layered double hydroxide for sonophotocatalytic degradation of refractory antibiotics**
Rad T. S., Yazici E. S., Khataee A., GENGEÇ E., KOBYA M.
ENVIRONMENTAL RESEARCH, vol.214, 2022 (SCI-Expanded)
- XIII. **Electrochemical oxidation of pretreated landfill leachate nanofiltration concentrate in terms of pollutants removal and formation of by-products**
Iskurt C., Aliyev E., GENGEÇ E., KOBYA M., Khataee A.
CHEMOSPHERE, vol.307, 2022 (SCI-Expanded)
- XIV. **Treatment of real printing and packaging wastewater by combination of coagulation with Fenton and photo-Fenton processes**
SAYIN F. E., Karatas O., ÖZBAY İ., GENGEÇ E., Khataee A.
CHEMOSPHERE, vol.306, 2022 (SCI-Expanded)
- XV. **Graphene-based ZnCr layered double hydroxide nanocomposites as bactericidal agents with high sonophotocatalytic performances for degradation of rifampicin**
Rad T. S., Khataee A., Arefi-Oskoui S., Rad S. S., Orooji Y., GENGEÇ E., Kobya M.
CHEMOSPHERE, vol.286, 2022 (SCI-Expanded)
- XVI. **<p>Zinc-chromium layered double hydroxides anchored on carbon nanotube and biochar for ultrasound-assisted photocatalysis of rifampicin</p>**
Khataee A., Arefi-Oskoui S., GENGEÇ E., KOBYA M., Yoon Y., Rad T. S., Rad S. S.
ULTRASONICS SONOCHEMISTRY, vol.82, 2022 (SCI-Expanded)
- XVII. **High-performance carbon black electrode for oxygen reduction reaction and oxidation of atrazine by electro-Fenton process**
Karatas O., Gengec N., GENGEÇ E., Khataee A., Kobya M.
CHEMOSPHERE, vol.287, 2022 (SCI-Expanded)
- XVIII. **Anodic Oxidation of Effluents from Stages of MBR-UF Municipal Landfill Leachate Treatment Plant**
Ukundimana Z., KOBYA M., Omwene P. I., GENGEÇ E., Can O. T.
ENVIRONMENTAL ENGINEERING SCIENCE, vol.37, no.10, pp.702-714, 2020 (SCI-Expanded)
- XIX. **Dye degradation and kinetics of online Electro-Fenton system with thermally activated carbon fiber cathodes**
Ergan B. T., GENGEÇ E.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.8, no.5, 2020 (SCI-Expanded)
- XX. **Removal of natural organic matter from Lake Terkos by EC process: Studying on removal mechanism by floc size and zeta potential measurement and characterization by HPSEC method**
Ulu F., GENGEÇ E., Kobya M.
JOURNAL OF WATER PROCESS ENGINEERING, vol.31, 2019 (SCI-Expanded)
- XXI. **TOC and COD removal from instant coffee and coffee products production wastewater by chemical coagulation assisted electrooxidation**
Can O. T., GENGEÇ E., Kobya M.
JOURNAL OF WATER PROCESS ENGINEERING, vol.28, pp.28-35, 2019 (SCI-Expanded)
- XXII. **Electrooxidation as post treatment of ultrafiltration effluent in a landfill leachate MBR treatment plant: Effects of BDD, Pt and DSA anode types**
Ukundimana Z., Omwene P., GENGEÇ E., Can O. T., Kobya M.

- ELECTROCHIMICA ACTA, vol.286, pp.252-263, 2018 (SCI-Expanded)
- XXIII. **Heterogeneous Activation of Persulfate by Graphene Oxide-TiO₂ Nanosheet for Oxidation of Diclofenac: Optimization by Central Composite Design**
GENÇ N., DURNA E., GENGEÇ E.
WATER AIR AND SOIL POLLUTION, vol.229, no.10, 2018 (SCI-Expanded)
- XXIV. **Optimization of Beidellite/Polyaniline Production Conditions by Central Composite Design for Removal of Acid Yellow 194**
Gengec N., İŞGÖREN M., Kobya M., VELİ S., GENGEÇ E.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.26, no.6, pp.2619-2631, 2018 (SCI-Expanded)
- XXV. **Treatment of highly toxic cardboard plant wastewater by a combination of electrocoagulation and electrooxidation processes**
GENGEÇ E.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.145, pp.184-192, 2017 (SCI-Expanded)
- XXVI. **Removal of humic acid by fixed-bed electrocoagulation reactor: Studies on modelling, adsorption kinetics and HPSEC analyses**
Kac F. U., Kobya M., GENGEÇ E.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.804, pp.199-211, 2017 (SCI-Expanded)
- XXVII. **Removal of micropollutants from Sakarya River water by ozone and membrane processes**
Yaman F. B., ÇAKMAKCI M., Yuksel E., Ozen I., GENGEÇ E.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, no.9, 2017 (SCI-Expanded)
- XXVIII. **Combined effects of co-existing anions on the removal of arsenic from groundwater by electrocoagulation process: Optimization through response surface methodology**
Sik E., Kobya M., Demirbas E., Gengeç E., Oncel M. S.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.5, no.4, pp.3792-3802, 2017 (SCI-Expanded)
- XXIX. **Evaluation of wet air oxidation variables for removal of organophosphorus pesticide malathion using Box-Behnken design**
İŞGÖREN M., GENGEÇ E., VELİ S.
WATER SCIENCE AND TECHNOLOGY, vol.75, no.3, pp.619-628, 2017 (SCI-Expanded)
- XXX. **Treatments of alkaline non-cyanide, alkaline cyanide and acidic zinc electroplating wastewaters by electrocoagulation**
Kobya M., Demirbas E., ÖZYONAR F., Sirtbas G., GENGEÇ E.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.105, pp.373-385, 2017 (SCI-Expanded)
- XXXI. **Operating parameters and costs assessments of a real dyehouse wastewater effluent treated by a continuous electrocoagulation process**
Kobya M., GENGEÇ E., Demirbas E.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.101, pp.87-100, 2016 (SCI-Expanded)
- XXXII. **Color removal from anaerobic/aerobic treatment effluent of bakery yeast wastewater by polyaniline/beidellite composite materials**
GENGEÇ E.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.3, no.4, pp.2484-2491, 2015 (SCI-Expanded)
- XXXIII. **Treatment of textile dyeing wastewater by electrocoagulation using Fe and Al electrodes: optimisation of operating parameters using central composite design**
Kobya M., GENGEÇ E., Sensoy M. T., Demirbas E.
COLORATION TECHNOLOGY, vol.130, no.3, pp.226-235, 2014 (SCI-Expanded)
- XXXIV. **Treatment of Baker's Yeast Wastewater by Electrocoagulation and Evaluation of Molecular Weight Distribution with HPSEC**
GENGEÇ E., Kobya M.
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.18, pp.2880-2889, 2013 (SCI-Expanded)
- XXXV. **Optimizing Dye Adsorption Onto a Waste-Derived (Modified Charcoal Ash) Adsorbent Using Box-Behnken and Central Composite Design Procedures**

GENGEÇ E., ÖZDEMİR U., ÖZBAY B., ÖZBAY İ., VELİ S.

WATER AIR AND SOIL POLLUTION, vol.224, no.10, 2013 (SCI-Expanded)

XXXVI. **Optimization of baker's yeast wastewater using response surface methodology by electrocoagulation**

Gengeç E., Kobya M., Demirbas E., Akyol A., Oktör K.

DESALINATION, vol.286, pp.200-209, 2012 (SCI-Expanded)

XXXVII. **Decolourization of melanoidins by a electrocoagulation process using aluminium electrodes**

Kobya M., GENGEÇ E.

ENVIRONMENTAL TECHNOLOGY, vol.33, no.21, pp.2429-2438, 2012 (SCI-Expanded)

XXXVIII. **Electrochemical treatment of Baker's yeast wastewater containing melanoidin: optimization through response surface methodology**

Gengeç E., Kobya M., Demirbas E., Akyol A., Oktör K.

WATER SCIENCE AND TECHNOLOGY, vol.65, pp.2183-2190, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. **Electrooxidation of Alkyd Resin Production Wastewater By Boren Doped Diamond Electrode**

ATALAY GENGEÇ N., GENGEÇ E., CAN O. T., KOBYA M.

Academic Perspective Procedia, vol.1, pp.1026-1033, 2018 (Peer-Reviewed Journal)

II. **The Adsorption of Basic Dye (Astrazon Blue FGRL) from Aqueous Solutions Onto Two Diferent Clays: Talc and Chrysotile**

GENGEÇ E.

Karaelmas Fen ve Mühendislik Dergisi, vol.7, pp.438-448, 2017 (Peer-Reviewed Journal)

III. **Determination of Optimum Conditions in Treatment of Carbofos by Wet Air Oxidation with Using Pd/AC catalyst**

Abanova Z., İŞGÖREN M., GENGEÇ E., VELİ S.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.1, pp.61-66, 2016 (ESCI)

IV. **Pd/AC Katalizörü Eşliğinde Karbofos'un Islak Hava Oksidasyonu ile Arıtımında Optimum Koşulların Belirlenmesi**

ABANOVA Z., İŞGÖREN M., GENGEÇ E., VELİ S.

Politeknik Dergisi, vol.19, no.1, pp.61-66, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Electrodeposition: Fundamentals and Applications**

DEMİRBAŞ E., KOBYA M., GENGEÇ E., CAN O. T., ŞENOCAK A., KHATAEE A.

in: Contaminated Water: Pollutants, Effects and Remediation Technologies, Dominic O'Brien, Editor, Nova Science Publishers, New York, pp.127-180, 2020

Refereed Congress / Symposium Publications in Proceedings

I. **Optimization of Treatment Parameters In Coagulation of The Textile Industry Wastewater**

ALDAHHER M., WAHHOUB D., GENGEÇ E.

7th International Aegean Conference on Innovation Technologies & Engineering, İzmir, Turkey, 26 April 2023, vol.1, pp.127-141

II. **Treatment of The Textile Industry Wastewater Containing Polyvinyl Alcohol By Coagulation**

WAHHOUB D., ALDAHHER M., GENGEÇ E.

7th International Aegean Conference on Innovation Technologies & Engineering, İzmir, Turkey, 26 - 27 April 2023, vol.1, pp.142-150

- III. **Treatment of food aroma and ingredients production wastewater by electrochemical processes**
GENGEÇ E., KOBYA M., Karakas O.
5th International Eurasian Conference on Biological and Chemical Sciences, Turkey, 23 - 25 November 2022
- IV. **Treatment of dye production wastewater by coagulation and flocculation processes**
Akalpoğlu B., GENGEÇ E., KOBYA M.
5th International Eurasian Conference on Biological and Chemical Sciences, Turkey, 23 November 2022
- V. **Sonocatalytic Decomposition of Organic Pollutant Under Visible Light Over Graphene-Based NiCr Layered Double Hydroxide**
Rad T. S., Yazici E. S., KHATAEE A., GENGEÇ E., KOBYA M.
International Environmental Chemistry Congress, Antalya, Turkey, 1 - 04 November 2021
- VI. **ZnCr Layered Double Hydroxide@Biochar as Novel Sonophotocatalyst for Antibiotic Decontamination**
Rad T. S., KHATAEE A., Rad S., Oskoui S., GENGEÇ E.
International Environmental Chemistry Congress, Antalya, Turkey, 01 November 2021
- VII. **PREPARATION OF THERMAL MODIFIED CARBON CATHODE TO ELIMINATE DYE IN AQUEOUS MEDIUM USING ON-LINE ELECTRO- FENTON SYSTEM**
Ergan B. T., Gengeç E., Soybelli M.
6th INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT, 6 - 07 November 2020, pp.2-3
- VIII. **Treatment By An Electrooxidation Process Using Tungsten Oxide Coating Electrodes Of Organic Compounds From Wastewaters**
SARABI S. M., KOBYA M., GENGEÇ E., KHATAEE A.
13. Ulusal 1. Uluslararası Çevre Mühendisliği Kongresi, Kocaeli-Gebze, Turkey, 10 - 12 October 2019, vol.1, pp.354-355
- IX. **Ağaç İşleme Atıksularının İleri Oksidasyon Yöntemleri İle Arıtılması**
POLAT N., GENGEÇ E., ÖZBAY İ.
1. Uluslararası Çevre Mühendisliği Kongresi, 10 - 12 October 2019
- X. **Kinetics of anodic oxidation of ammonia N, COD and TOC at each stage of the MBR treatment plant of leachate effluents**
UKINDIMANA Z., KOBYA M., GENGEÇ E.
4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Turkey, 17 - 18 June 2019, vol.1, pp.659-670
- XI. **Molecular Weight Distribution Analysis and Coagulation of Nanofiltration Concentrate of a Municipal Landfill Leachate Treatment Plant**
TURAN A., İSKURT Ç., GENGEÇ E., KOBYA M.
4th Eurasian Conference on Civil and Environmental Engineering, İstanbul, Turkey, 17 - 18 June 2019, vol.1, pp.688-694
- XII. **Treatment of Coke Oven Wastewater by Electrochemical Oxidation Using BDD Anodes**
İSKURT Ç., TURAN A., GENGEÇ E., KOBYA M.
4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Turkey, 17 - 18 June 2019, vol.1, pp.695-703
- XIII. **Treatment by a batch electrocoagulation reactor using Al and Fe plate electrodes of metal processing wastewater**
KOBYA M., GENGEÇ E.
International Symposium on Engineering Natural Sciences and Architecture (ISENSA 2019), Kocaeli, Turkey, 2 - 04 May 2019, vol.1, pp.205-209
- XIV. **Decolorization of Reactive Orange 67 dye by a packed bed reactor using a low-cost electrode material(industrial coke)**
ALTAY M., KOBYA M., GENGEÇ E.
International Symposium on Engineering Natural Sciences and Architecture (ISENSA 2019), Kocaeli, Turkey, 2 - 04 May 2019, vol.1, pp.196-201
- XV. **Treatment of nickel-cyanide electroplating wastewater by a batch electrocoagulation reactor using**

iron plate electrodes

KOBYA M., GENGEÇ E.

International Symposium on Engineering Natural Sciences and Architecture (ISENSA 2019), Kocaeli, Turkey, 2 - 04 May 2019, vol.1, pp.190-195

- XVI. **ATIKTAN TÜRETİLMİŞ YAKIT ÜRETİM TESİSLERİNDE İŞLETME SORUNLARI VE ÇÖZÜM YAKLAŞIMLARI**
ÖZBAY İ., ANGİN V. O., GENGEÇ E., ÖZBAY B.
INTERNATIONAL CONGRESS OF ENERGY ECONOMY AND SECURITY, 10 - 11 November 2018
- XVII. **Atıktan türetilmiş Yakıt Üretim Tesislerinde İşletme Sorunları ve Çözüm Yaklaşımları**
ÖZBAY İ., ANGİN V. O., GENGEÇ E., ÖZBAY B.
International Congress of Energy Economy and Security (ENSCON), İstanbul, Turkey, 10 - 11 November 2018
- XVIII. **Electrooxidation of Alkyd Resin Production Wastewater By Borene Doped Diamond Electrode**
ATALAY GENGEÇ N., GENGEÇ E., CAN O. T., KOBYA M.
6th International Symposium on Innovative Technologies in Engineering and Science, Antalya, Turkey, 9 - 11 November 2018
- XIX. **Electrooxidation of Alkyd Resin Production Wastewater by Borene Doped Diamond Electrode**
ATALAY GENGEÇ N., GENGEÇ E., CAN O. T., KOBYA M.
6th INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Antalya, Turkey, 9 - 11 November 2018, pp.1026-1033
- XX. **Color Removal of Astrazon Blue through Electro-Fenton Using Carbon Fiber Cathode**
TEMUR ERGAN B., GENGEÇ E.
2nd International Conference on Innovations in Natural Science and Engineering, Kiev, Ukraine, 7 - 10 September 2018
- XXI. **Electrooxidation Of Cardboard Plant Wastewater By Ti/Ru-Ir-Sn And Ti/Ru-Ir Electrodes**
GENGEÇ E., ANAC M., DURMUS B., KOBYA M.
The third edition of International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 April 2018, pp.451
- XXII. **The Effect Of Process Parameters On Removal Efficiencies Of Electro-Fenton Process By Carbon Felt Electrode.**
GENGEÇ E., ATALAY GENGEÇ N., KOBYA M., ANAC M.
Third edition of International Conference on Civil and Environmental Engineering (ICOCEE), İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.487-492
- XXIII. **The Effect of Process Parameters on Removal Efficiencies of Electro-Fenton Process by Carbon Felt Electrode**
GENGEÇ E., ATALAY GENGEÇ N., KOBYA M., ANAC M.
3rd International Conference on Civil and Environmental Engineering (ICOCEE), ÇEŞME, Turkey, 24 - 27 April 2018
- XXIV. **The effect of process parameters on removal efficiencies of electro-Fenton process by graphite felt electrode**
GENGEÇ E., GENGEÇ N. A., KOBYA M., ANAC M.
3. International Conference on Civil and Environmental Engineering, Çeşme, İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.487-492
- XXV. **OPTIMIZATION OF OPERATION COST WITH BOX-BEHNKEN DESIGN IN ELECTROCHEMICAL WASTEWATER TREATMENT METHODS: A COMPREHENSIVE REVIEW**
GENGEÇ E.
INTERNATIONAL CONGRESS OF ENERGY ECONOMY AND SECURITY, İstanbul, Turkey, 21 - 22 April 2018, pp.100
- XXVI. **Electrooxidation of ultrafiltration effluent in a landfill leachate treatment plant by DSA anodes**
OMWENE P. I., UKUNDIMANA Z., GENGEÇ E., CAN O. T., KOBYA M.
2nd International Conference on Civil and Environmental Engineering, 8 - 10 May 2017
- XXVII. **Electrooxidation of treatment stage effluents (raw leachate, anoxic-aerobic oxidation and ultrafiltration) in landfill leachate plant using BDD anodes**
UKUNDIMANA Z., OMWENE P. I., GENGEÇ E., CAN O. T., KOBYA M.
2nd International Conference on Civil and Environmental Engineering, 8 - 10 May 2017

- XXVIII. **Treatment of Acid Orange 7 dye by Electro- Fenton: Optimization through Response Surface Methodology**
GENGEÇ E., KOBYA M., DURMUS B.
3rd International Conference on Engineering and Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017
- XXIX. **The Removal of Phenol by Electro-Oxidation Process Using Graphene Cathode**
GENGEÇ E., ATALAY GENGEÇ N., MERVE A., KOBYA M.
3rd International Conference on Engineering and Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017
- XXX. **The Removal of Phenol by Electro-Oxidation Process Using Graphene Cathode**
GENGEÇ E., ATALAY GENGEÇ N., ANAÇ M., KOBYA M.
3rd International Conference on Engineering and Natural Sciences (ICENS), Hungary, 3 - 07 May 2017
- XXXI. **The effect of production conditions on the structural and physical properties of the graphene: A potential electrode**
GENGEÇ N. A., GENGEÇ E., KOBYA M.
3rd International Conference on Engineering and Natural Science, Budapest, Hungary, 3 - 07 May 2017, pp.212-217
- XXXII. **The Effect of Production Conditions on the Structural and Physical Properties of the Graphene a potential electrode**
ATALAY GENGEÇ N., GENGEÇ E., KOBYA M.
3rd International Conference on Engineering and Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017
- XXXIII. **Removal of Organophosphorous Pesticide from Water with Fenton and Photo Fenton Reaction**
İŞGÖREN M., GENGEÇ E., VELİ S., ABANOVA J.
3rd International Conference on Recycling and Reuse, 28 - 30 August 2016
- XXXIV. **Affinity of electrocoagulation process on hydrophobic hydrophilic fraction of Baker s yeast wastewater**
GENGEÇ E., KOBYA M.
13th International Conference on Protection and Restoration of the Environment, Mykonos, Greece, 3 - 08 July 2016, pp.72-80
- XXXV. **Humic acid removal from aqueous solution by fixed bed electrocoagulation reactor using Al ball anodes**
ULU F., GENGEÇ E., KOBYA M.
13th International Conference on Protection and Restoration of the Environment, Mykonos, Greece, 3 - 08 July 2016, pp.80-86
- XXXVI. **Treatment of alkaline and acidic zinc plating wastewaters by electrocoagulation using iron plate anodes**
KOBYA M., DEMİRBAŞ E., ÖZYONAR F., SİRTBAS G., GENGEÇ E.
The Fifth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and to the SECOTOX Conference, Mykonos, Greece, 14 - 18 June 2015
- XXXVII. **Struvite and potassium calcium sulphate production by recovery of ammonium and sulphate from anesthetic gas N2O plant wastewaters**
ULU F., GENGEÇ E., KOBYA M., DEMİRBAŞ E.
The Fifth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and to the SECOTOX Conference, Mykonos, Greece, 14 - 18 June 2015
- XXXVIII. **Evaluation of non catalytic wet air oxidation variables for removal of organophosphorous pesticide malathion using Box Behnken**
GENGEÇ E., İŞGÖREN M., KOBYA M., VELİ S.
International Conference on Civil and Environmental Engineering, Cappadocia, Turkey, 20 - 23 May 2015
- XXXIX. **Effect of Anions on Arsenic Removal from Groundwater by Air Feed Electrocoagulation Reactor Using Iron Ball Anodes**
SİK E., GENGEÇ E., KOBYA M., DEMİRBAŞ E., ÖNCEL M. S.
The International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia 2015), Nevşehir, Turkey, 20 - 23 May 2015

- XL. Monitoring of molecular weight distribution by HPSEC with ultraviolet diode array and refractiveindex detectors in biologically treated bakery yeast wastewater**
GENGEÇ E., KOBYA M.
The International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia 2015), Nevşehir, Turkey, 20 - 23 May 2015
- XLI. EVALUTION OF NON CATALYTIC WET AIR OXIDATION VARIABLES FOR REMOVAL OFORGONOPHOSPHROUS PESTICIDE MALATHION USING BOX BEHNKEN**
İŞGÖREN M., GENGEÇ E., VELİ S.
The International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia 2015)„ Nevşehir, Turkey, 20 - 23 May 2015
- XLII. Optimization by Central Composite Design of a New Adsorbent Beidellite Polyaniline Production For Adsorption of Acid Yellow 194**
GENGEÇ E., İŞGÖREN M., KOBYA M., VELİ S.
Internatinal Conference on Advances in Composite Materials and Structures, İstanbul, Turkey, 13 - 15 April 2015
- XLIII. Effects of charge loading and electrode connection mode on treatment of cattle slaughterhouse wastewater by hybrid aluminium iron electrodes**
ÖZYONAR F., GENGEÇ E., KOBYA M., DEMİRBAŞ E.
The Fifth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and to the SECOTOX Conference, Mykonos, Greece, 14 - 18 June 2015
- XLIV. Photocatalytic Oxidation of Benzoquinone in Aqueous ZnO Suspensions**
GENGEÇ E., KOBYA M., CAN O. T., AKYOL A.
2nd International Conference on Recycling and Reuse, İstanbul, Turkey, 4 - 06 June 2014
- XLV. Maya Endüstrisi Atık Sularının Elektrokoagülasyonla Arıtımında Moleküler Ağırlık Dağılımının İncelenmesi**
GENGEÇ E., KOBYA M.
Kromatografi Kongresi -2013, Tokat, Turkey, 6 - 09 June 2012
- XLVI. Response surface methodology for treatment of Baker s yeast wastewater by electrocoagulation**
GENGEÇ E., KOBYA M., DEMİRBAŞ E., AKYOL A., OKTOR K.
AGRO 2011 The Eighth IWA International Symposium on Waste Management Problems in Agro-Industries, 22 - 24 July 2011, pp.383-393

Supported Projects

- Ergan B. T., Gengeç E., TUBITAK Project, Biyoçar Elektrotların Modifikasyon Şartlarının Elektro-Fenton Prosesinde Arıtım Verimi ve Kinetiği Üzerine Etkilerinin İncelenmesi, 2020 - 2021
- GENGEÇ E., TEMUR ERGAN B., Project Supported by Higher Education Institutions, Kimyasal Olarak Modifiye Edilmiş Karbon Fiberlerin ElektroFenton Prosesinde Etkinliğinin incelenmesi, 2019 - 2021
- GENGEÇ E., TEMUR ERGAN B., Project Supported by Higher Education Institutions, ATIK SULARIN ELEKTRO-FENTON YÖNTEMİ İLE ARITIMINDA KARBON TEMELLİ ELEKTROTLARIN KULLANIM POTANSİYELLERİ, 2019 - 2021
- Gengeç E., Technopark, Çam Ağaçlarından Reçine Eldesinde Asit Pasta Veriminin Metal Katalizör ile İyileştirilmesi, 2020 - 2020
- GENGEÇ E., Project Supported by Higher Education Institutions, 2019- SU ATIKSU LABORATUVARI (ÇEVRE KORUMA TEKNOLOJİLERİ), 2019 - 2020
- GENGEÇ E., Project Supported by Higher Education Institutions, ÇELTİK KAVUZUNDAN ATIKSU ARITIMINDA KULLANILMAK ÜZERE ADSORBENT ÜRETİMİ, 2018 - 2019
- GENGEÇ E., Project Supported by Higher Education Institutions, ELEKTRO-PENTON YÖNTEMİ İLE SULARDAN FENOL GİDERİMİ VE GİDERİM MEKANİZMASININ İNCELENMESİ, 2017 - 2018
- GENGEÇ E., DURMUŞ B., Project Supported by Higher Education Institutions, GRAFEN TABANLI KATOTLARIN ELEKTROT-FENTON YÖNTEMİ İLE SU/ATIKSU ARITIMINDA KULLANIMI, 2017 - 2018
- GENGEÇ E., Project Supported by Higher Education Institutions, GRAFEN VE GRAFEN-METAL KOMPOZİT

ADSORBENTLERİN ÜRETİMİ VE SUDAN ORGANİK KİRLETİCİLERİN GİDERİMİ, 2016 - 2017

GENGEÇ E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Dezavantajlı Gruplar Sürekli Eğitim Birimi, 2013 - 2015

GENGEÇ E., Project Supported by Higher Education Institutions, YÜKSEK TOKSİSİTEYE SAHİP ATIKSULARIN FARKLI ELEKTROTLAR KULLANARAK ELEKTRO-OKSİDASYON METOTU İLE GİDERİMİ, 2013 - 2014

OKTOR K., GENGEÇ E., Project Supported by Higher Education Institutions, Maya Endüstrisi Atık Sularının Elektro-KOA Glasyan Yöntemi ile Arıtımı, 2009 - 2010

OKTOR K., GENGEÇ E., Project Supported by Higher Education Institutions, Boya Endüstrisi Atık Sularının Elektro Kimyasal Yöntemlerle Arıtımı, 2009 - 2010

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Sakarya University Of Applied Sciences, Turkey, March 2022

WATER AND ENVIRONMENT JOURNAL, SCI Journal, February 2022

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, February 2022

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, SCI Journal, February 2022

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, January 2022

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, SCI Journal, December 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TUBITAK, Turkey, November 2021

Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, October 2021

ANALYTICAL METHODS, SCI Journal, April 2021

WATER SCIENCE AND TECHNOLOGY, SCI Journal, March 2021

SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, March 2021

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, March 2021

WATER AND ENVIRONMENT JOURNAL, SCI Journal, February 2021

Project Supported by Higher Education Institutions, BAP Research Project, Kocaeli University, Turkey, October 2020

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, August 2020

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, April 2020

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, SCI Journal, May 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kocaeli Üniversitesi, Turkey, May 2019

DESALINATION AND WATER TREATMENT, SCI Journal, February 2019

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, November 2018

CHEMICAL ENGINEERING JOURNAL, SCI Journal, September 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kocaeli University, Turkey, July 2018

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, June 2018

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, June 2018

ENVIRONMENTAL TECHNOLOGY, SCI Journal, May 2018

ELECTROCHIMICA ACTA, SCI Journal, January 2018

WATER SCIENCE AND TECHNOLOGY, SCI Journal, December 2017

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, June 2017

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, March 2017

WATER SCIENCE AND TECHNOLOGY, SCI Journal, July 2016

ENVIRONMENTAL TECHNOLOGY, SCI Journal, June 2016

WATER SCIENCE AND TECHNOLOGY, SCI Journal, April 2016

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, February 2016

DESALINATION AND WATER TREATMENT, SCI Journal, February 2016
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Kocaeli University, Turkey, January 2016
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI Journal, November 2015
WATER SCIENCE AND TECHNOLOGY, SCI Journal, October 2015
DESALINATION AND WATER TREATMENT, SCI Journal, February 2015
DESALINATION AND WATER TREATMENT, SCI Journal, May 2014
DESALINATION AND WATER TREATMENT, SCI Journal, March 2014
JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, February 2014
WATER SCIENCE AND TECHNOLOGY, SCI Journal, May 2013
WATER SCIENCE AND TECHNOLOGY, SCI Journal, March 2013
WATER SCIENCE AND TECHNOLOGY, SCI Journal, October 2012
WATER SCIENCE AND TECHNOLOGY, SCI Journal, May 2012
WATER SCIENCE AND TECHNOLOGY, SCI Journal, March 2012
WATER SCIENCE AND TECHNOLOGY, SCI Journal, March 2012
WATER SCIENCE AND TECHNOLOGY, SCI Journal, December 2011

Tasks In Event Organizations

Gengeç E., 2. International Environmental Engineering Congress, Scientific Congress, Bursa, Turkey, Aralık 2021
Gengeç E., 1. International Environmental Engineering Congress, Scientific Congress, Kocaeli, Turkey, Ekim 2019

Metrics

Publication: 89
Citation (WoS): 842
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