

Prof. MUSTAFA YÜCEL

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Biography

Prof Dr Mustafa Yucel, PhD University of Delaware, is a faculty member and Vice Director at Middle East Technical University's [Institute of Marine Sciences](#) in Turkey. Currently, he is the coordinator of one ERC Consolidator Grant project, DEEPTRACE and co-coordinator of the ongoing [BRIDGE-BS](#) and past [Black Sea CONNECT](#) project. His research interests include biogeochemical cycles in the oceans, deep-sea ecosystems, sustainable blue economy and developing marine observation systems. He is also METU PI for different EU H2020 and Horizon Europe projects (ARSINOE and BLUEMISSIONMED) in the Black Sea and Mediterranean basins. He holds several awards such as TÜBA-GEBİP (2018) and BAGEP (2019) and Mustafa Parlak Foundation award (2021), and is an associate member of TÜBA Turkish Academy of Sciences since 2023.

Education Information

Doctorate, University of Delaware, College Of Ocean, Earth And Environment, United States Of America 2005 - 2010

Undergraduate Minor, Middle East Technical University, Faculty of Arts and Sciences, Department of Philosophy, Turkey 2000 - 2005

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 2000 - 2005

Dissertations

Doctorate, New perspectives in sulfur-iron cycling at the ocean- seafloor interface: The Black Sea sediments and deep-sea hydrothermal vents, University of Delaware, College of Earth, Ocean and Environment, 2010

Research Areas

Marine Sciences and Technology, Oceanography, Geological and Geophysical Oceanography, Chemical Oceanography,

Biogeochemical Cycles, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Institute of Marine Sciences, Marine Geology & Geophysics, 2023 - Continues
Associate Professor, Middle East Technical University, Institute of Marine Sciences, Marine Geology & Geophysics, 2017 - 2023

Assistant Professor, Middle East Technical University, Institute of Marine Sciences, Marine Geology & Geophysics, 2015 - 2017

Researcher, Geomar Helmholtz Centre For Ocean Research Kiel, 2013 - 2015

Researcher, Université Pierre-et-Marie-Curie: Paris VI, 2010 - 2012

Research Assistant, University of Delaware, 2005 - 2010

Academic and Administrative Experience

Head of Department, Middle East Technical University, Institute of Marine Sciences, Marine Geology & Geophysics, 2019 - Continues

Assistant Director of the Institute, Middle East Technical University, Institute of Marine Sciences, 2016 - Continues

Courses

GEOCHEMISTRY OF SEDIMENTS, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

BIOGEOCHEMISTRY OF SEAFLOOR ECOSYSTEMS, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

INTRODUCTION TO OCEANOGRAPHY, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Global Biogeochemistry, Postgraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016

Advising Theses

Yücel M., THE RELATIONSHIP OF THE POST-MUCILAGE WATER COLUMN OXYGEN BALANCE AND CARBON CYCLE OF THE SEA OF MARMARA WITH PLANKTON METABOLISM, Postgraduate, M.Kazak(Student), Continues

Yücel M., THE ROLE OF REDOX BIOGEOCHEMICAL CYCLES OF THE BLACK SEA IN ITS ECOSYSTEM RESILIENCE: INTEGRATING SMART OBSERVATIONS TO THE ANALYSIS OF HISTORICAL DATA AND NEW TECHNIQUES FOR FORECASTING., Doctorate, E.Ermiş(Student), Continues

Yücel M., GEOCHEMICAL AND SEDIMENTOLOGICAL PROPERTIES OF EDREMIT BAY, Doctorate, P.Çağatay(Student), Continues

Altın S., Yücel M., MICROPALaeONTOLOGICAL INVESTIGATION OF THE ANTHROPOCENE IN THE TURKISH SEAS, Doctorate, G.TANIK(Student), Continues

Yücel M., CO-MOBILIZATION OF KEY COFACTOR METALS IN MODERN OCEAN REDOX BOUNDARIES, Doctorate, N.ALIMLI(Student), Continues

Yücel M., INVESTIGATION OF N₂ FIXATION ACROSS THE REDOXCLINE IN THE BLACK SEA, Postgraduate, Z.Ayral(Student), Continues

Yücel M., Seafloor iron mobilization across the deep-water redox gradients of the Black Sea and the Sea of Marmara, Postgraduate, N.Alımlı(Student), 2022

Yücel M., Investigation of bacterial community composition in oxic and anoxic sediment cores along redox gradients of the Black Sea, Postgraduate, M.ESTİ(Student), 2022

Yücel M., Coastal eutrophication and hypoxia under focus: Redox dependent benthic nutrient fluxes across sea boundaries in the Northeastern Mediterranean and Marmara sea, Doctorate, İ.AKÇAY(Student), 2022

Güneş Ş., Yücel M., EVALUATION OF THE EUROPEAN UNION AND TURKISH LEGISLATION AND PRACTICE IN THE CONTEXT OF MARINE LITTER PROBLEM, Doctorate, M.Aydın(Student), 2021

Yücel M., Geochemistry of deep-sea hydrothermal vent fluids from broken spur, rainbow and lost city hydrothermal vent fields, mid-atlantic ridge, Postgraduate, S.SEVGEN(Student), 2021

Yücel M., Yilmaz A., Investigation of redox-dependent benthic nutrient and metal feedbacks under anoxia using early diagenetic modeling, Postgraduate, K.BİÇE(Student), 2018

Yücel M., SPATIAL VARIATIONS OF SEAFLOOR IRON CYCLE IN CILICIAN BASIN (EASTERN MEDITERRANEAN), Postgraduate, E.Ermiş(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Implementing regional blue economy research and innovation strategies: a case study for the Black Sea**
Salihoglu B., Yücel M., Uygurer P., Yücel E. Ş., Papathanassiou E., Tezcan D., Stanica A., Stanciu I., Moncheva S. P., Dzhembekova N., et al.
FRONTIERS IN MARINE SCIENCE, vol.11, pp.1-20, 2024 (SCI-Expanded)
- II. **Subsurface microbial community structure shifts along the geological features of the Central American Volcanic Arc**
Basili M., Rogers T., Nakagawa M., Yücel M., De Moor M., Barry P., Schrenk M., Jessen G., Sanchez-Murillo R., Zahirovic S., et al.
PLOS ONE, no.0308756, pp.1-20, 2024 (SCI-Expanded)
- III. **Distinct patterns of sedimentary phosphorus fractionation and mobilization in the seafloor of the Black Sea, Marmara Sea and Mediterranean Sea**
Akçay I., Yücel M.
Science of the Total Environment, vol.863, 2023 (SCI-Expanded)
- IV. **Chemolithoautotroph distributions across the subsurface of a convergent margin**
Rogers T. J., Buongiorno J., Jessen G. L., Schrenk M. O., Fordyce J. A., De Moor J. M., Ramirez C. J., Barry P. H., Yücel M., Selci M., et al.
ISME JOURNAL, vol.17, no.1, pp.140-150, 2023 (SCI-Expanded)
- V. **High Precision Femtosecond Laser Ablation ICP-MS Measurement of Benthic Foraminiferal Mn-Incorporation for Paleoenvironmental Reconstruction: A Case Study From the Plio-Pleistocene Caribbean Sea**
Ogretmen N., Schiebel R., Jochum K. P., Galer S., Leitner J., Khanolkar S., Yücel M., Stoll B., Weis U., Haug G. H.
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.23, no.10, 2022 (SCI-Expanded)
- VI. **Differential Behavior of Metal Sulfides in Hydrothermal Plumes and Diffuse Flows**
Estes E. R., Berti D., Findlay A. J., Hochella M. F., Shaw T. J., YÜCEL M., De Carlo E. H., Luther G. W.
ACS Earth and Space Chemistry, vol.6, no.6, pp.1429-1442, 2022 (SCI-Expanded)
- VII. **High $^3\text{He}/^4\text{He}$ in central Panama reveals a distal connection to the Galapagos plume**
Bekaert D. V., Gazel E., Turner S., Behn M. D., de Moor J. M., Zahirovic S., Manea V. C., Hoernle K., Fischer T. P., Hammerstrom A., et al.
Proceedings of the National Academy of Sciences of the United States of America, vol.118, no.47, 2021 (SCI-Expanded)
- VIII. **Soluble, Colloidal, and Particulate Iron Across the Hydrothermal Vent Mixing Zones in Broken Spur and Rainbow, Mid-Atlantic Ridge**
Yücel M., Sevgen S., Le Bris N.
FRONTIERS IN MICROBIOLOGY, vol.12, 2021 (SCI-Expanded)
- IX. **Fe-catalyzed sulfide oxidation in hydrothermal plumes is a source of reactive oxygen species to the ocean**
Shaw T. J., Luther G. W., Rosas R., Oldham V. E., Coffey N. R., Ferry J. L., Dias D. M. C., YÜCEL M., de Chanvalon A. T.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.118, no.40,

2021 (SCI-Expanded)

- X. **Effect of tectonic processes on biosphere-geosphere feedbacks across a convergent margin**
Fullerton K. M., Schrenk M. O., YÜCEL M., Manini E., Basili M., Rogers T. J., Fattorini D., Di Carlo M., D'Errico G., Regoli F., et al.
NATURE GEOSCIENCE, vol.14, no.5, pp.301-306, 2021 (SCI-Expanded)
- XI. **Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea**
Tintore J., Pinardi N., Alvarez-Fanjul E., Aguiar E., Alvarez-Berastegui D., Bajo M., Balbin R., Bozzano R., Nardelli B. B., Cardin V., et al.
FRONTIERS IN MARINE SCIENCE, 2019 (SCI-Expanded)
- XII. **Forearc carbon sink reduces long-term volatile recycling into the mantle**
Barry P. H., De Moor J. M., Giovannelli D., Schrenk M., Hummer D. R., Lopez T., Pratt C. A., Alpizar Segura Y., Battaglia A., Beaudry P., et al.
NATURE, vol.568, no.7753, pp.487-499, 2019 (SCI-Expanded)
- XIII. **Iron and sulfide nanoparticle formation and transport in nascent hydrothermal vent plumes**
Findlay A. J., Estes E. R., Gartman A., YÜCEL M., Kamyshny A., Luther G. W.
NATURE COMMUNICATIONS, vol.10, 2019 (SCI-Expanded)
- XIV. **Turbidite deposition and diagenesis in the southwestern Black Sea: Implications for biogeochemical cycling in an anoxic basin**
Kraal P., YÜCEL M., Slomp C. P.
MARINE CHEMISTRY, vol.209, pp.48-61, 2019 (SCI-Expanded)
- XV. **Hydrothermal energy transfer and organic carbon production at the deep seafloor**
LE BRIS N., Yücel M., DAS A., Sievert S. M., LokaBharathi P., Girguis P. R.
Frontiers in Marine Science, vol.5, 2019 (SCI-Expanded)
- XVI. **Ecological Succession of Sulfur-Oxidizing Epsilon- and Gammaproteobacteria During Colonization of a Shallow-Water Gas Vent**
PATWARDHAN S., FOUSTOUKOS D., Goyannelli D., YÜCEL M., VETRIANI C.
FRONTIERS IN MICROBIOLOGY, vol.9, 2018 (SCI-Expanded)
- XVII. **Microbial Sulfide Filter along a Benthic Redox Gradient in the Eastern Gotland Basin, Baltic Sea**
Yucel M., SOMMER S., Dale A. W., PFANNKUCHE O.
FRONTIERS IN MICROBIOLOGY, vol.8, 2017 (SCI-Expanded)
- XVIII. **GEOLOGY AND GEOPHYSICS OF THE SOUTHERN SHELF OF THE BLACK SEA**
TEZCAN D., YÜCEL M., Cifci G.
BLACK SEA MARINE ENVIRONMENT: THE TURKISH SHELF, vol.46, pp.32-51, 2017 (SCI-Expanded)
- XIX. **Major Bottom Water Ventilation Events Do Not Significantly Reduce Basin-Wide Benthic N and P Release in the Eastern Gotland Basin (Baltic Sea)**
SOMMER S., CLEMENS D., YÜCEL M., PFANNKUCHE O., Hall P. O. J., ALMROTH-ROSELL E., Schulz-Vogt H. N., Dale A. W.
FRONTIERS IN MARINE SCIENCE, vol.4, 2017 (SCI-Expanded)
- XX. **Diversity and Distribution of Prokaryotes within a Shallow-Water Pockmark Field**
Giovannelli D., d'Errico G., Fiorentino F., Fattorini D., Regoli F., Angeletti L., Bakran-Petricioli T., Vetriani C., YÜCEL M., Taviani M., et al.
FRONTIERS IN MICROBIOLOGY, vol.7, 2016 (SCI-Expanded)
- XXI. **Bathymodiolus growth dynamics in relation to environmental fluctuations in vent habitats**
Nedoncelle K., Lartaud F., Pereira L. C., Yucel M., Thurnherr A. M., Mullineaux L., Le Bris N.
DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS, vol.106, pp.183-193, 2015 (SCI-Expanded)
- XXII. **Temporal and spatial constraints on community assembly during microbial colonization of wood in seawater**
KALENİTCHENKO D., Fagervold S. K., Pruski A. M., VÉTİON G., Yucel M., LE BRIS N., Galand P. E.
ISME JOURNAL, vol.9, no.12, pp.2657-2670, 2015 (SCI-Expanded)
- XXIII. **Nitrate and Nitrite Variability at the Seafloor of an Oxygen Minimum Zone Revealed by a Novel Microfluidic In-Situ Chemical Sensor**

YÜCEL M., BEATON A. D., DENGLER M., MOWLEM M. C., SOHL F., SOMMER S.

PLOS ONE, vol.10, no.7, 2015 (SCI-Expanded)

- XXIV. **Community succession in hydrothermal vent habitats of the Eastern Lau Spreading Center and Valu Fa Ridge, Tonga**
SEN A., Podowski E. L., Becker E. L., Shearer E. A., Gartman A., Yucel M., HOURDEZ S., Luther G. W., Fisher C. R.
LIMNOLOGY AND OCEANOGRAPHY, vol.59, no.5, pp.1510-1528, 2014 (SCI-Expanded)
- XXV. **Ecogeochemical fate of coarse organic particles in sediments of the Rhone River prodelta**
CHARLES F., COSTON-GUARINI J., LANTOÏNE F., Guarini J., Yucel M.
ESTUARINE COASTAL AND SHELF SCIENCE, vol.141, pp.97-103, 2014 (SCI-Expanded)
- XXVI. **Down the thermodynamic ladder: A comparative study of marine redox gradients across diverse sedimentary environments**
Yucel M.
ESTUARINE COASTAL AND SHELF SCIENCE, vol.131, pp.83-92, 2013 (SCI-Expanded)
- XXVII. **Eco-geochemical dynamics of a shallow-water hydrothermal vent system at Milos Island, Aegean Sea (Eastern Mediterranean)**
Yucel M., Sievert S. M., VETRIANI C., Foustoukos D. I., Giovannell D., LE BRIS N.
CHEMICAL GEOLOGY, vol.356, pp.11-20, 2013 (SCI-Expanded)
- XXVIII. **Compact autonomous voltammetric sensor for sulfide monitoring in deep sea vent habitats**
CONTREIRA-PEREIRA L., Yucel M., OMANOVIC D., BRULPORT J., LE BRIS N.
DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS, vol.80, pp.47-57, 2013 (SCI-Expanded)
- XXIX. **Temporal trends in vent fluid iron and sulfide chemistry following the 2005/2006 eruption at East Pacific Rise, 9 degrees 50 ' N**
Yucel M., Luther G. W.
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.14, no.4, pp.759-765, 2013 (SCI-Expanded)
- XXX. **Sulfide production and consumption in degrading wood in the marine environment**
Yucel M., Galand P. E., Fagervold S. K., CONTREIRA-PEREIRA L., LE BRIS N.
CHEMOSPHERE, vol.90, no.2, pp.403-409, 2013 (SCI-Expanded)
- XXXI. **Recent sedimentation in the Black Sea: New insights from radionuclide distributions and sulfur isotopes**
Yucel M., Moore W. S., Butler I. B., BOYCE A., Luther G. W.
DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS, vol.66, pp.103-113, 2012 (SCI-Expanded)
- XXXII. **Chemistry, Temperature, and Faunal Distributions at Diffuse-Flow Hydrothermal Vents Comparison of Two Geologically Distinct Ridge Systems**
Luther G. W., Gartman A., Yucel M., Madison A. S., Moore T. S., Nees H. A., Nuzzio D. B., SEN A., Lutz R. A., Shank T. M., et al.
OCEANOGRAPHY, vol.25, no.1, pp.234-245, 2012 (SCI-Expanded)
- XXXIII. **Turkey's globally important biodiversity in crisis**
Sekercioglu C. H., ANDERSON S., AKÇAY E., Bilgin R., Can O. E., Semiz G., Tavsanoğlu C., Yokes M. B., Soyumert A., Ipekdal K., et al.
BIOLOGICAL CONSERVATION, vol.144, no.12, pp.2752-2769, 2011 (SCI-Expanded)
- XXXIV. **Sulfide Oxidation across Diffuse Flow Zones of Hydrothermal Vents**
Gartman A., Yucel M., Madison A. S., Chu D. W., MA S., Janzen C. P., Becker E. L., Beinart R. A., Girguis P. R., Luther G. W.
AQUATIC GEOCHEMISTRY, vol.17, pp.583-601, 2011 (SCI-Expanded)
- XXXV. **Hydrothermal vents as a kinetically stable source of iron-sulphide-bearing nanoparticles to the ocean**
Yucel M., Gartman A., Chan C. S., Luther G. W.
NATURE GEOSCIENCE, vol.4, no.6, pp.367-371, 2011 (SCI-Expanded)
- XXXVI. **Earthquake-induced turbidite deposition as a previously unrecognized sink for hydrogen sulfide in the Black Sea sediments**
Yucel M., Luther G. W., Moore W. S.

- MARINE CHEMISTRY, vol.121, pp.176-186, 2010 (SCI-Expanded)
- XXXVII. **Sulfur speciation in the upper Black Sea sediments**
Yucel M., Kononov S. K., Moore T. S., Janzen C. P., Luther G. W.
CHEMICAL GEOLOGY, vol.269, pp.364-375, 2010 (SCI-Expanded)
- XXXVIII. **Marine Chemical Technology and Sensors for Marine Waters: Potentials and Limits**
Moore T. S., Mullaugh K. M., Holyoke R. R., Madison A. S., Yucel M., Luther G. W.
ANNUAL REVIEW OF MARINE SCIENCE, vol.1, pp.91-115, 2009 (SCI-Expanded)
- XXXIX. **Formation of Zn- and Fe-sulfides near hydrothermal vents at the Eastern Lau Spreading Center: implications for sulfide bioavailability to chemoautotrophs**
Hsu-Kim H., Mullaugh K. M., Tsang J. J., Yucel M., Luther G. W.
GEOCHEMICAL TRANSACTIONS, vol.9, 2008 (SCI-Expanded)
- XL. **Voltammetric (micro)electrodes for the in situ study of Fe²⁺ oxidation kinetics in hot springs and S₂O₃²⁻ production at hydrothermal vents**
Mullaugh K. M., Luther G. W., Ma S., Moore T. S., Yucel M., Becker E. L., Podowski E. L., Fisher C. R., Trouwborst R. E., Pierson B. K.
ELECTROANALYSIS, vol.20, no.3, pp.280-290, 2008 (SCI-Expanded)
- XLI. **Porewater redox species and processes in the Black Sea sediments**
Kononov S. K., Luther G. W., Yucel M.
CHEMICAL GEOLOGY, vol.245, pp.254-274, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Standard Operating Procedure for the determination of trace elements in hydrothermal fluids by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)**
Correggia M., Di Iorio L., Bastianoni A. B., YÜCEL M., Cordone A., Giovannelli D.
Open Research Europe, vol.3, 2024 (Scopus)
- II. **Standard operating procedure for the analysis of major ions in hydrothermal fluids by ion chromatography**
Correggia M., Di Iorio L., Bastianoni A. B., YÜCEL M., Cordone A., Giovannelli D.
Open Research Europe, vol.3, 2024 (Scopus)
- III. **BENTHIC NUTRIENT FLUXES ACROSS A PRODUCTIVE SHELF ADJACENT TO AN OLIGOTROPHIC BASIN: CASE OF THE NORTHEASTERN MEDITERRANEAN SEA**
Akçay İ., Tuğrul S., Yücel M.
<https://eartharxiv.org/>, pp.1-27, 2021 (Non Peer-Reviewed Journal)
- IV. **High temperature responses of *Aegilops biuncialis* species and *Triticum durum* cultivar**
Terzioglu S., Yildiz M., YÜCEL M., ÖKTEM H. A.
Pakistan Journal of Biological Sciences, vol.9, no.14, pp.2579-2585, 2006 (Scopus)
- V. **Marker gene delivery to mature wheat embryos via particle bombardment**
ÖKTEM H. A., Eyidoğan F., Ertuğrul F., YÜCEL M., Jenés B., Toldi O.
Turkish Journal of Botany, vol.23, no.5, pp.303-308, 1999 (Scopus)

Books & Book Chapters

- I. **MARMARA DENİZİ'NİN GÜNCEL OKSİJEN DURUMU VE MÜSİLAJIN ETKİSİ**
MANTIKCI A. M., ÖREK H., YÜCEL M., UYSAL Z., ARKIN Ş. S., SALİHOĞLU B.
in: Marmara Denizi 2022 Sempozyumu Bildiriler Kitabı, ÖZTÜRK BAYRAM, ERGÜL HALİM AYTEKİN, YALÇINER AHMET CEVDET, ÖZTÜRK HÜSEYİN, SALİHOĞLU BARIŞ, Editor, TÜDAV, İstanbul, pp.18-24, 2022
- II. **MARMARA DENİZİ'NDE YAYILI KAYNAKLARDAN GELEN KİRLİLİĞİN AZALTILMASI İÇİN MEVCUT OLAN METOTLAR VE UYGULANMA ALANLARI**

ÖZHAN K., ÖZKAN K., SALİHOĞLU B., YÜCEL M., FACH SALİHOĞLU B. A., ÖREK H., MANTIKCI A. M., TEZCAN D., AKOĞLU E., ARKIN Ş. S., et al.

in: Marmara Denizi 2022 Sempozyumu Bildiriler Kitabı, ÖZTÜRK BAYRAM, ERGÜL HALİM AYTEKİN, YALÇINER AHMET CEVDET, ÖZTÜRK HÜSEYİN, SALİHOĞLU BARIŞ, Editor, TÜDAV, İstanbul, pp.113-119, 2022

- III. **Türkiye Derin Denizlerinde Anaerobik ve Kemosenetik Ekosistemler**
Yücel M., Akçay I., Sevgen S., Alımlı N., Ermiş E., Tanik G., Esti M.
in: Extreme Marine Environments of Turkey, Hüseyin Öztürk, Güler Alkan, Editor, Türk Deniz Araştırmaları Vakfı (TÜDAV), İstanbul, pp.1-27, 2021
- IV. **İklim Değişikliği, Ekosistem Servisleri ve Bölgesel Yönetim Stratejileri**
Salıhoğlu B., Şahin Yücel E., Ibello V., Yücel M.
in: İklim Değişikliği Ve Türkiye Denizleri Üzerine Etkileri, Barış SALİHOĞLU, Bayram ÖZTÜRK, Editor, Türk Deniz Araştırmaları Vakfı (TÜDAV), İstanbul, pp.1-23, 2021
- V. **Marmara Denizi'nin Geçirdiği Biyojeokimyasal Değişimler Bağlamında 2021 Müsilaj Patlaması, Güncel Baskılar ve Çözüm Önerileri**
Yücel M., Özkan K., Fach B. A., Örek H., Mantıkçı M., Tezcan D., Akçay I., Özhan K., Arkin Ş. S., Tuğrul S., et al.
in: Marmara Denizi'nin Ekolojisi: Deniz Salyası Oluşumu, Etkileşimleri ve Çözüm Önerileri, Muzaffer Şeker, İzzet Öztürk, Editor, TÜBA, pp.249-268, 2021
- VI. **MARMARA DENİZİ'NİN GEÇİRDİĞİ BİYOJEOKİMYASAL DEĞİŞİMLER BAĞLAMINDA 2021 MÜSİLAJ PATLAMASI, GÜNCEL BASKILAR VE ÇÖZÜM ÖNERİLERİ**
YÜCEL M., ÖZKAN K., FACH B. A., ÖREK H., MANTIKCI A. M., TEZCAN D., AKÇAY İ., ÖZHAN K., ARKIN Ş. S., TUĞRUL S., et al.
in: Marmara Denizi'nin Ekolojisi: Deniz Salyası Oluşumu, Etkileşimleri ve Çözüm Önerileri, ÖZTÜRK İZZET, ŞEKER MUZAFFER, Editor, TÜBA, Ankara, pp.250-268, 2021
- VII. **Türkiye Derin Denizlerinde Anaerobik ve Kemosenetik Ekosistemler**
YÜCEL M., AKÇAY İ., SEVGEN S., ALIMLI N., ESTİ M.
in: Türkiye'nin ekstrem deniz ortamları, Öztürk, Hüseyin; Alkan Güler, Editor, Türk Deniz Araştırmaları Vakfı (TÜDAV), İstanbul, pp.1-27, 2021
- VIII. **Marmara Denizi'nin geçirdiği biyojeokimyasal değişimler bağlamında 2021 müsilaj patlaması güncel baskılar ve çözüm önerileri**
YÜCEL M., ÖZKAN K., FACH B. A., ÖREK H., Mustafa M., TEZCAN D., AKÇAY İ., ÖZHAN K., ARKIN Ş. S., TUĞRUL S., et al.
in: Marmara Denizi'nin Ekolojisi: Deniz Salyası Oluşumu, Etkileşimleri ve Çözüm Önerileri, Şeker, Muzaffer; Öztürk, İzzet, Editor, Türkiye Bilimler Akademisinden (TÜBA), Ankara, pp.249-268, 2021
- IX. **Catchment-Sea Interactions in the Black Sea**
ÖZKAN K., ÖZHAN K., YÜCEL M.
in: Black Sea Marine Environment: The Turkish Shelf, Sezgin Murat, Bat Levent, Ürkmez Derya, Arıcı Elif, Öztürk Bayram, Editor, Turkish Marine Research Foundation (TÜDAV), İstanbul, pp.98-113, 2017
- X. **Geology and Geophysics of the Southern Shelf of the Black Sea**
Tezcan D., Yücel M., Çifci G.
in: Black Sea Marine Environment: the Turkish Shelf, Murat Sezgin, Levent Bat, Derya Ürkmez, Elif Arıcı, Bayram Öztürk, Editor, Turkish Marine Research Foundation, İstanbul, pp.32-36, 2017
- XI. **Geology and Geophysics of the Southern Shelf of the Black Sea**
TEZCAN D., YÜCEL M., ÇİFTÇİ G.
in: Black Sea Marine Environment: The Turkish Shelf, Murat Sezgin, Levent Bat, Derya Ürkmez, Elif Arıcı, Bayram Öztürk, Editor, Turkish Marine Research Foundation, pp.32-51, 2017
- XII. **Deep sea ecosystems of the Eastern Mediterranean**
Yücel M., Özkan K., Tezcan D.
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- I. YOUTH ENGAGEMENT IN OCEAN LITERACY: HOW THE BLACK SEA YOUNG AMBASSADORS SUPPORT OCEAN LITERACY IN THE BLACK SEA AND EUROPE**
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- II. The Black Sea Young Ambassadors program: Lessons learned in supporting ocean literacy and communicating marine geoscience**
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- III. Towards multi-element characterization of marine metal nanoparticles: First results from the suboxic zone of the Black Sea**
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- X. DIGITAL TWIN AND MANAGEMENT PLAN RECOMMENDATIONS FOR THE SEA OF MARMARA**

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- XI. **KARADENİZ TÜRKİYE KARASULARINDA MEVSİMSSEL BİRİNCİL ÜRETİM**
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5. ULUSAL DENİZ BİLİMLERİ KONFERANSI, Trabzon, Turkey, 1 - 03 June 2022, pp.1-236
- XII. **MARMARA DENİZİ'NDE OKSİJENİN TÜKENMESİ VE MÜSİLAJIN ETKİLERİ**
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- XIII. **CHANGES OBSERVED ON THE MARMARA SEA ECOSYSTEM DURING RECENT YEARS AND SOLUTIONS**
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- XIV. **IMPACTS OF EUTROPHICATION ON BLACK SEA ECOSYSTEM: LONG-TERM CHANGES IN THE UPPER LAYER BIO-CHEMICAL PROPERTIES OVER THE DEEP BASIN**
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- XV. **Seafloor iron mobilization across the deep-water redox gradients of the Black Sea and the Sea of Marmara**
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- XVI. **MARMARA DENİZİNİN GÜNCEL OKSİJEN DURUMU VE MÜSİLAJIN ETKİSİ**
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- XVII. **Comparison of Porewater Diffusive Nutrient Fluxes with External Inputs in the Northeastern Mediterranean Sea**
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- XVIII. **Deoxygenation and coastal eutrophication drive distinct benthic nutrient dynamics in the hypoxic Marmara Sea and oxic northeastern Mediterranean Sea**
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- XXI. **Dissolved, Colloidal and Particulate Iron in Hydrothermal Vent Fluids and Rising Plumes from Broken Spur and Rainbow, Mid-Atlantic Ridge**
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- XXII. **Center for Marine Ecosystem and Climate Research - DEKOSIM: A hub of excellence in support of blue economy at the Institute of Marine Sciences**
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- XXIII. **Kilikya Baseni (Dođu Akdeniz) Kıta Sahaneliđında Demir ve Manganezin Jeokimyasal Dönüşümleri**
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- XXXV. **Oceanographic and Seafloor Ecosystem Research in METU Turkey**
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- XXXVI. **Carbon oxidation and fixation through sulfur dependent pathways on the seafloor**
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Deep Carbon Observatory Second Early Career Scientist Meeting, 31 August - 05 September 2015
- XXXVII. **Functioning of marine chemosynthetic ecosystems A biogeochemistry perspective**
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SALİHOĞLU B., YÜCEL M., TEZCAN D., ŞAHİN YÜCEL E., FACH SALİHOĞLU B. A., Project Supported by Higher Education Institutions, Marmara Büyük Deniz Verisi Sağlıklı Deniz Ekosistemi için Büyük Veri, 2023 - Continues

ALTINER S., TANIK G., YÜCEL M., ALIMLI N., AKÇAY İ., Project Supported by Higher Education Institutions, Çınarcık Çukurluğu'nda (Marmara Denizi) foraminifer topluluklarının dağılımı, zaman içinde değişimi ve etkileyen faktörler, 2021 - Continues

Yücel M., Salihoğlu B., Fach Salihoğlu B. A., Örek H., Alimli N., Demir N. Y., Uygurer Z. P., H2020 Project, DeepTrace: Tracing nanoparticle-fuelled co-mobilization of catalyst metals across Earth's deep-sea redox interfaces to pave the way for habitability detection in Ocean Worlds , 2023 - 2027

Uygurer Z. P., Salihoğlu B., Yücel M., H2020 Project, Ocean-ICU Improving Carbon Understanding, 2022 - 2027

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Mantıkçı A. M., Uysal Z., Salihoğlu B., Örek H., Yücel M., Arkin Ş. S., TUBITAK Project, Marmara Denizi'nde Plankton Metabolizması Ve Müsilajın Oksijen Tüketimine Etkisi, 2021 - 2023

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Activities in Scientific Journals

Frontiers in Microbiology, Assistant Editor/Section Editor, 2018 - Continues

Memberships / Tasks in Scientific Organizations

Türkiye Bilimler Akademisi, Associate Member, 2023 - Continues, Turkey

Scientific Refereeing

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

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Tasks In Event Organizations

Şahin Yücel E., Uygurer Z. P., Yücel M., Salihođlu B., OKYANUSLAR VE SULARIN RESTORASYONU" MİSYONU: TÜRKİYE, AKDENİZ HUB'ININ KURULMASI ÇALIŞTAYI, Workshop Organization, Mersin, Turkey, Aralık 2023

Şahin Yücel E., Uygurer Z. P., Salihođlu B., Yücel M., Black Teatime with Youth, Social Activities, Turkey, Aralık 2023

Şahin Yücel E., Yücel M., Salihođlu B., Uygurer Z. P., Demir N. Y., Durgut B., Alımlı N., Gülmez Z. A., Bitir Soylu B., TÜRKİYE'NİN BİRLEŞMİŞ MİLLETLER OKYANUS BİLİMLERİ ON YILINA KATKILARI KONFERANSI, Workshop Organization, Ankara, Turkey, Eylül 2023

Şahin Yücel E., Uygurer Z. P., Salihođlu B., Yücel M., Black Sea Young Ambassadors Summer School , Science / Art Camp or Summer School Organization, İstanbul, Turkey, Haziran 2023

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Şahin Yücel E., Salihoğlu B., Yücel M., Uygurer Z. P., Consultation Workshop with Linked Projects and Initiatives on the SRIA Implementation Plan, Workshop Organization, Bucuresti, Romania, Mart 2023

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Şahin Yücel E., Uygurer Z. P., Yücel M., Salihoğlu B., Photo Contest: "Visual Storytelling of The Black Sea, Art Activities, Turkey, Ekim 2022

Uygurer Z. P., Şahin Yücel E., Yücel M., Salihoğlu B., CulTour4Youth Projesi 2. Çalıştayı, Workshop Organization, Mersin, Turkey, Ekim 2022

Uygurer Z. P., Şahin Yücel E., Salihoğlu B., Yücel M., Blue Economy High Tech Summit For the Black Sea - Karadeniz Mavi Ekonomi Yüksek Teknoloji Zirvesi, Scientific Congress, Bulgaria, Eylül 2022

Uygurer Z. P., Yücel M., Şahin Yücel E., Salihoğlu B., ARSINOE Türkiye Yaşayan Lab'ı - ARSINOE Turkish Living Lab, Workshop Organization, Turkey, Eylül 2022

Şahin Yücel E., Uygurer Z. P., Yücel M., Salihoğlu B., 1st Summer School of the H2020 BRIDGE-BS, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ağustos 2022

Uygurer Z. P., Şahin Yücel E., Yücel M., Salihoğlu B., Innovation Workshop - Yenilik Çalıştayı, Workshop Organization, Turkey, Şubat 2022

Şahin Yücel E., Uygurer Z. P., Yücel M., Salihoğlu B., Black Sea Young Ambassadors Awareness-raising Campaign Development Workshop, Workshop Organization, Turkey, Şubat 2022

Salihoğlu B., Yücel M., Art Fair "Healing the Black Sea By Art" - Black Sea CONNECT , Art Activities, Romania, Aralık 2021

Salihoğlu B., Yücel M., Supporting the Common Maritime Agenda Priorities with Research and Innovation towards Cultivating the Potential for Blue Entrepreneurship, Workshop Organization, Ankara, Turkey, Aralık 2021

Salihoğlu B., Yücel M., Şahin Yücel E., Uygurer Z. P., CulTourE4Youth: Supporting Youth Entrepreneurship in Cultural Tourism for coastal communities Mersin Workshop, Workshop Organization, Mersin, Turkey, Kasım 2021

Şahin Yücel E., Salihoğlu B., Yücel M., Uygurer Z. P., Black Sea Young Ambassadors Autumn School - Black Sea CONNECT, Science / Art Camp or Summer School Organization, Mersin, Turkey, Kasım 2021

Salihoğlu B., Yücel M., Şahin Yücel E., Uygurer Z. P., Policy Panel featuring BRIDGE-BS and DOORS and the synergies between them, Workshop Organization, Mersin, Turkey, Temmuz 2021

Salihoğlu B., Yücel M., Şahin Yücel E., Uygurer Z. P., Blue Growth Hackathon - Black Sea CONNECT, Social Activities, Romania, Haziran 2021

Salihoğlu B., Yücel M., Şahin Yücel E., Uygurer Z. P., Caravan for Blue Growth - Black Sea CONNECT, Social Activities, Romania, Haziran 2021

Salihoğlu B., Yücel M., Şahin Yücel E., İklim Değişikliği ve Denizlerimiz, Scientific Congress, Turkey, Ocak 2021

Yücel M., Salihoğlu B., Şahin Yücel E., Uygurer Z. P., Research and Innovation in the Black Sea: Empowering the next generation for a healthy, resilient and productive Black Sea - Black Sea CONNECT, Workshop Organization, Mersin, Turkey, Ekim 2020

Metrics

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Invited Talks

From expanding anoxia to recent sea snot events: Biogeochemical transformation of the connected Black Sea - Marmara Sea System in response to multiple stressors , Seminar, University of Leeds, United Kingdom, December 2021

Regional Webinar on Greening the Maritime Transport & Preparedness for Marine Pollution Prevention in the Black Sea , Workshop, Coordination of the Common Maritime Agenda of the Black Sea , Turkey, November 2021

Awards

Yücel M., Research Incentive Award, Mustafa Parlar Foundation, December 2020

Yücel M., Bilim Akademisi BAGEP Ödülü, Bilim Akademisi, April 2019

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