

Prof. MUSTAFA YÜCEL

Personal Information

Office Phone: [+90 324 521 3434](tel:+903245213434)

Email: muyucel@metu.edu.tr

Web: <https://www.deepsearedox.com>

Address: ODTU Deniz Bilimleri Enstitüsü, 33731 Erdemli-Mersin

International Researcher IDs

ScholarID: G3qMyFcAAAAJ

ORCID: 0000-0002-7478-902X

Publons / Web Of Science ResearcherID: F-7067-2010

ScopusID: 22735900000

Yoksis Researcher ID: 220534

Biography

Doç. Dr. Mustafa Yücel 1982 yılında Bandırma’da doğmuştur. 2005 yılında ODTÜ Kimya Mühendisliği Bölümü’nden lisans derecesini, Felsefe Bölümü’nden de Bilim Felsefesi yandal derecesini almıştır. 2005-2010 arasında ABD’de Delaware Üniversitesi’nde Oşinografi doktorasını Prof. George Luther’in danışmanlığında tamamlamıştır. Mustafa Yücel 2010 ile 2012 arasında Fransa, UPMC-CNRS’de; 2013-2015 arasında da Almanya GEOMAR’da doktora sonrası araştırmalarda bulunmuştur. Nisan 2015’den beri ODTÜ Deniz Bilimleri Enstitüsü’nde öğretim üyesidir ve Aralık 2016’dan beri Enstitü Müdür Yardımcısı olarak da görev yapmaktadır. Ayrıca ODTÜ Ankara Kampusu Yer Sistem Bilimleri Anabilim Dalı’nda da dersler vermektedir.

Dr Yücel’in araştırma ilgi alanları arasında okyanuslardaki biyojeokimyasal döngüler, derin deniz ekosistemleri, sürdürülebilir deniz ekonomisi ve deniz gözlem sistemleri geliştirmek sayılabilir. Doç. Dr. Mustafa Yücel’in 2021 itibari ile *Nature*, *Nature Geoscience*, *Marine Chemistry* başta olmak üzere doğa bilimlerinin önde gelen uluslararası dergilerinde 40’ın üzerinde yayını vardır. Dr. Yücel Pasifik, Atlantik, Akdeniz, Karadeniz, Marmara ve Baltık Denizi’de 14 adet uzun süreli araştırma seferlerine katılmış ve 5 kere *Alvin* (ABD) ve *Nautila* (Fransa) araştırma denizaltıları ile dalışlara katılmıştır. Makalelerine Google Akademik atf indeksine göre 1500’e yakın atf yapılmıştır. Dr Yücel şu an ODTÜ’nün koordine ettiği 2 adet AB Ufuk 2020 araştırma konsorsiyumunun eş-koordinatörü olarak da görev yapmakta ve 3 TÜBİTAK projesinde yer almaktadır. Mustafa Yücel aynı zamanda Türk Deniz Araştırmaları Vakfı TÜDAV Bilim Ödülü (2017), TÜBA-GEBİP ödülü (2018) ve BAGEP ödülü (2019) sahibidir.

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.SEVGİN(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. **Distinct patterns of sedimentary phosphorus fractionation and mobilization in the seafloor of the Black Sea, Marmara Sea and Mediterranean Sea**
AKÇAY İ., YÜCEL M.
Science of the Total Environment, vol.863, 2023 (SCI-Expanded)
- II. **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)
- III. **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**
Oğretmen 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)
- IV. **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)
- V. **High ³He/⁴He 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., Zhirovic 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)
- VI. **Soluble, Colloidal, and Particulate Iron Across the Hydrothermal Vent Mixing Zones in Broken Spur and Rainbow, Mid-Atlantic Ridge**
Yücel M., Sevgin S., Le Bris N.
FRONTIERS IN MICROBIOLOGY, vol.12, 2021 (SCI-Expanded)
- VII. **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)

- VIII. **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)
- IX. **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, vol.6, 2019 (SCI-Expanded)
- X. **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)
- XI. **Iron and sulfide nanoparticle formation and transport in nascent hydrothermal vent plumes**
Findlay A. J., Estes E. R., Gartman A., YÜCEL M., Kamysny A., Luther G. W.
NATURE COMMUNICATIONS, vol.10, 2019 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **Ecological Succession of Sulfur-Oxidizing Epsilon- and Gammaproteobacteria During Colonization of a Shallow-Water Gas Vent**
PATWARDHAN S., FOUSTOUKOS D., Gioannelli D., YÜCEL M., VETRIANI C.
FRONTIERS IN MICROBIOLOGY, vol.9, 2018 (SCI-Expanded)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)

- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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., Giovannelli D., LE BRIS N.
CHEMICAL GEOLOGY, vol.356, pp.11-20, 2013 (SCI-Expanded)
- XXVI. **Compact autonomous voltammetric sensor for sulfide monitoring in deep sea vent habitats**
CONTREIRA-PEREIRA L., Yucel M., OMANOVIĆ D., BRULPORT J., LE BRIS N.
DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS, vol.80, pp.47-57, 2013 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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., Ipekdağ K., et al.
BIOLOGICAL CONSERVATION, vol.144, no.12, pp.2752-2769, 2011 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)

- XXXV. **Sulfur speciation in the upper Black Sea sediments**
Yücel M., Konovalov S. K., Moore T. S., Janzen C. P., Luther G. W.
CHEMICAL GEOLOGY, vol.269, pp.364-375, 2010 (SCI-Expanded)
- XXXVI. **Marine Chemical Technology and Sensors for Marine Waters: Potentials and Limits**
Moore T. S., Mullaugh K. M., Holyoke R. R., Madison A. S., Yücel M., Luther G. W.
ANNUAL REVIEW OF MARINE SCIENCE, vol.1, pp.91-115, 2009 (SCI-Expanded)
- XXXVII. **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., Yücel M., Luther G. W.
GEOCHEMICAL TRANSACTIONS, vol.9, 2008 (SCI-Expanded)
- XXXVIII. **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., Yücel 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)
- XXXIX. **Porewater redox species and processes in the Black Sea sediments**
Konovalov S. K., Luther G. W., Yücel M.
CHEMICAL GEOLOGY, vol.245, pp.254-274, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **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)
- II. **High temperature responses of *Aegilops biuncialis* species and *Triticum durum* cultivar**
Terzioğlu S., Yıldız M., YÜCEL M., ÖKTEM H. A.
Pakistan Journal of Biological Sciences, vol.9, no.14, pp.2579-2585, 2006 (Scopus)
- III. **Marker gene delivery to mature wheat embryos via particle bombardment**
ÖKTEM H. A., Eyidoğan F., Ertuğrul F., YÜCEL M., Jenes B., Toldi O.
Turkish Journal of Botany, vol.23, no.5, pp.303-308, 1999 (Scopus)

Books & Book Chapters

- I. **Türkiye Derin Denizlerinde Anaerobik ve Kemosenetik Ekosistemler**
Yücel M., Akçay İ., Sevgen S., Alımlı N., Ermiş E., Tanık G., Esti M.
in: Extreme Marine Environments of Turkey, Hüseyin Öztürk, Güler Alkan, Editor, Türk Deniz Araştırmaları Vakfı (TÜDAV), İstanbul, pp.1-27, 2021
- II. **İklim Değişikliği, Ekosistem Servisleri ve Bölgesel Yönetim Stratejileri**
Salihoğlu 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
- III. **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
- IV. **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 İ., Özhan K., Arkin Ş. S., Tuğrul S., et al.

in: Marmara Denizi'nin Ekolojisi: Deniz Salyası Oluşumu, Etkileşimleri ve Çözüm Önerileri, Muzafer Şeker, İzzet Öztürk, Editor, TÜBA, pp.249-268, 2021

V. 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

VI. 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

VII. Deep-Sea Ecosystems of the Mediterranean

YÜCEL M., ÖZKAN K., TEZCAN D.

in: The Sea of Marmara Marine Biodiversity Fisheries Conservation and Governance, Turan Cemal, Salihoğlu Barış, Özgür Özbek Elif, Öztürk Bayram, Editor, Türk Deniz Araştırmaları Vakfı, İstanbul, pp.366-379, 2016

VIII. Advances in marine benthic ecology using in situ sensors

Le Bris N., Contreira L., Yücel M.

in: Sensors for Ecology, J.-F. Le Galliard, J.-M. Guarini, F. Gaill, Editor, Centre National de la Recherche Scientifique (CNRS), Paris, pp.20-30, 2012

IX. In situ sensors for benthic ecosystem studies

Le Bris N., Contreira L., Yücel M.

in: Sensors for Ecology, J.-F. Le Galliard, J.-M. Guarini, F. Gaill, Editor, Centre National de la Recherche Scientifique (CNRS), Paris, pp.40-50, 2012

Refereed Congress / Symposium Publications in Proceedings

I. Benthic Iron Redox Mobilization Via Iron Reductive Respiration in Low Oxygen Seas: The Case of The Sea of Marmara

Alımlı N., Yücel M.

Goldschmidt 2023 Conference, Lyon, France, 9 - 14 July 2023

II. Towards multi-element characterization of marine metal nanoparticles: First results from the suboxic zone of the Black Sea

Yücel M., Alımlı N., Borovinskaya O., Demir N. Y., Cura H., Tanner M., Djurdjevic S.

Goldschmidt 2023 Conference, Lyon, France, 9 - 14 July 2023

III. Western Black Sea suboxic layer biogeochemical structure during the December 2022 R/V Bilim Expedition

Yücel M., Alımlı N., Cura H., Demir N. Y., Myroshnychenko V., Fach B. A., Arkan Ş. S., Tuğrul S., Salihoğlu B.

Goldschmidt 2023 Conference, Lyon, France, 09 July 2023

IV. Phosphorus build-up, nitrogen loss and sulfide accumulation in response to recent deep-water deoxygenation in the Sea of Marmara

Yücel M., Örek H., Alımlı N., Mantıkçı M., Özhan K., Fach B. A., Tezcan D., Örek Y., Kalkan E., Arkan Ş. S., et al.

Goldschmidt 2023 Conference, Lyon, France, 9 - 14 July 2023

V. Organic carbon distributions and carbon burial in a modern Proterozoic ocean analogue: the Sea of Marmara

Yücel M., Alımlı N., Gülmez Z. A., Cura H., Demir N. Y.

Goldschmidt 2023 Conference, Lyon, France, 09 July 2023

VI. An Opportunistic Foraminifera Virgulinitella fragilis Grindel and Collen in the Anoxic/Sulphidic İzmit Bay

Tanik G., Altiner S., Yücel M., Alımlı N., Akçay I.

75. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 10 - 14 April 2023, pp.530

VII. DIGITAL TWIN AND MANAGEMENT PLAN RECOMMENDATIONS FOR THE SEA OF MARMARA

SALİHOĞLU B., YÜCEL M., TEZCAN D., FACH B. A., ÖREK H., ARKIN Ş. S., ÖZHAN K., ÖZKAN K., Mantıkçı A. M.

III. Ulusal Denizlerde İzleme ve Değerlendirme Sempozyumu, Antalya, Turkey, 6 - 09 December 2022, pp.39-40

VIII. KARADENİZ TÜRKİYE KARASULARINDA MEVSİMSSEL BİRİNCİL ÜRETİM

MANTIKÇI M., UYSAL Z., YÜCEL M., ÖREK H., SALİHOĞLU B.

5. ULUSAL DENİZ BİLİMLERİ KONFERANSI, Trabzon, Turkey, 1 - 03 June 2022, pp.1-236

IX. MARMARA DENİZİ'NDE OKSİJENİN TÜKENMESİ VE MÜSİLAJIN ETKİLERİ

MANTIKÇI M., YÜCEL M., ÖREK H., UYSAL Z., KAZAK M., ARKIN Ş. S., SALİHOĞLU B.

5. ULUSAL DENİZ BİLİMLERİ KONFERANSI, Trabzon, Turkey, 01 June 2022, pp.1-236

X. 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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XI. CHANGES OBSERVED ON THE MARMARA SEA ECOSYSTEM DURING RECENT YEARS AND SOLUTIONS

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XII. Seafloor iron mobilization across the deep-water redox gradients of the Black Sea and the Sea of Marmara

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XIII. MARMARA DENİZİNİN GÜNCEL OKSİJEN DURUMU VE MÜSİLAJIN ETKİSİ

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XVII. Outreach and Communication in Marine Geosciences: The Integrated Strategy of METU Institute of Marine Sciences to Engage Communities in Turkey and Europe

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XVIII. Dissolved, Colloidal and Particulate Iron in Hydrothermal Vent Fluids and Rising Plumes from Broken Spur and Rainbow, Mid-Atlantic Ridge

Yücel M., Sevgen S., Le Bris N.

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XIX. 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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OceanObs'19, 15 September 2019

XX. Kilikya Baseni (Doğu Akdeniz) Kıta Saharlığında Demir ve Manganezin Jeokimyasal Dönüşümleri

Ermis E., Örek H., Tezcan D., Yücel M.

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XXI. Solution and (nano)particulate chemistry within the dynamic mixing zone of the first 2 meters of hydrothermal vent orifices

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- XXII. **Contrasting the permanently anoxic Black Sea with the rapidly deoxygenating Marmara Sea: Distinct redox processes of sulfur, nitrogen and oxygen in the two interconnected enclosed basins**
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- XXIII. **Comparing the permanently anoxic Black Sea with the rapidly deoxygenating Marmara Sea: Distinct redox processes of sulfur, nitrogen and oxygen in the two interconnected basins.**
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- XXIV. **Marmara Denizi için Bütünleşik Modelleme Sistemi**
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- XXV. **Modelling of Advective Transport and Biogeochemistry at a Shallow Hydrothermal Vent System**
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Goldschmidt Conference 2017, 13 - 18 August 2017
- XXVI. **Intermediate sulfur products along natural marine redox gradients: new insights from a holistic analysis of microelectrode cyclic voltammograms**
YÜCEL M.
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- XXVII. **Reactive iron in the seafloor of Cilician Basin, Eastern Mediterranean**
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- XXVIII. **Physical Control of the Spatial and Temporal Diversity of Microbial Mats at a Shallow Water Hydrothermal Vent**
Giovannelli D., Foustoukos D., Le Bris N., Sievert S., YÜCEL M., Dalessandro V., Ricci R., Vetriani C.
Goldschmidt Conference, 26 June - 01 July 2016
- XXIX. **Redox Processes in Suboxic Worlds The Highly Different Benthic Geochemistry of Fe S Mn Across the Chemoclines of Baltic and Black Sea**
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- XXX. **Karadeniz ve Baltık Denizi nde oksijen azlığı sonucu gelişen deniz tabanı biyojeokimyasal süreçleri**
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- XXXI. **From anoxic seas to seafloor hotspot ecosystems Deep carbon cycle through sulfur dependent biogeochemical pathways**
YÜCEL M.
EastMed Symposium 2015: Regional Cooperation in Eastern Mediterranean Sea Research, 19 - 21 October 2015
- XXXII. **Oceanographic and Seafloor Ecosystem Research in METU Turkey**
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IUCN Workshop on Mediterranean Deep-Sea Ecosystems, 8 - 09 September 2015
- XXXIII. **Carbon oxidation and fixation through sulfur dependent pathways on the seafloor**
YÜCEL M., Le Bris N., Sommer S.
Deep Carbon Observatory Second Early Career Scientist Meeting, 31 August - 05 September 2015
- XXXIV. **Functioning of marine chemosynthetic ecosystems A biogeochemistry perspective**
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Ecology and Evolutionary Biology Symposium Turkey, Turkey, 6 - 07 August 2015

Supported Projects

- 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
- Uygurer Z. P., Salihoğlu B., Yücel M., Horizon Europe Project, Ocean-ICU Improving Carbon Understanding, 2022 - 2027
- Yücel M., Salihoğlu B., Şahin Yücel E., Tezcan D., Fach Salihoğlu B. A., UYGURER Z. P., H2020 Project, ARSINOE: CLIMATE RESILIENT-REGIONS THROUGH SYSTEMIC SOLUTIONS AND INNOVATIONS, 2021 - 2025
- Salihoğlu B., Yücel M., Şahin Yücel E., Ibello V., Akoğlu E., Örek H., Ok M., Karahan A., Uysal Z., Sürücü B., et al., H2020 Project, BRIDGE-BS: Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems , 2021 - 2025
- Özhan K., Fach Salihoğlu B. A., Salihoğlu B., Yücel M., Akoğlu E., Özkan K., Örek H., Tezcan D., Project Supported by Other Official Institutions, MARMARA DENİZİ'NE DEŞARJ EDİLEN SOĞUTMA SULARININ ÇEVRESEL ETKİLERİNİN DEĞERLENDİRİLMESİ PROJESİ (MARDESS), 2022 - 2023
- Salihoğlu B., Tuğrul S., Uysal Z., Fach Salihoğlu B. A., Yücel M., Özhan K., Özkan K., Tezcan D., Örek H., Başdurak N. B., et al., Project Supported by Other Official Institutions, Marmara Denizi Bütünleşik Modelleme Sistemi (MARMOD) Faz II, 2021 - 2023
- Yücel M., Şahin Yücel E., Salihoğlu B., Uygurer Z. P., EU Supported Other Project, Cultoure4Youth: Supporting Youth Entrepreneurship in Cultural Tourism for coastal communities in the Black Sea region, 2021 - 2023
- Salihoğlu B., Yücel M., Şahin Yücel E., Tezcan D., Ibello V., H2020 Project, Black Sea CONNECT: Coordination of marine and maritime research and innovation in the Black Sea, 2019 - 2023
- TEZCAN D., YÜCEL M., Project Supported by Higher Education Institutions, Mersin Körfezi Sualtı Kanyonlarının Araştırılması, 2016 - 2023
- Salihoğlu B., Mantıkcı A. M., Tezcan D., Gücü A. C., Özhan K., Fach Salihoğlu B. A., Yücel M., Örek H., Tuğrul S., Mantıkcı G., et al., Municipality, İZMİT KÖRFEZİ SAĞLIKLI DENİZ EKOSİSTEMİ VE EKOSİSTEM SERVİSLERİ İÇİN STRATEJİ BELGESİ HAZIRLANMASI PROJESİ, 2022 - 2022
- Mantıkcı A. M., Uysal Z., Salihoğlu B., Örek H., Yücel M., Arkın Ş. S., TUBITAK Project, Marmara Denizi'nde Plankton Metabolizması Ve Müsilajın Oksijen Tüketimine Etkisi, 2021 - 2022
- Salihoğlu B., Tuğrul S., Uysal Z., Kıdeyş A. E., Fach Salihoğlu B. A., Yücel M., Başdurak N. B., Özhan K., Tezcan D., Örek H., et al., Project Supported by Other Official Institutions, Denizlerde Bütünleşik Kirlilik İzleme Programı (2020-2022), 2020 - 2022
- Yücel M., Salihoğlu B., Fach Salihoğlu B. A., Tezcan D., Örek H., Arkin Ş. S., Sevgen S., TUBITAK Project, Deep-sea metal and nutrient cycling in the Marmara and the Black Sea: Improving the detection of redox processes and nanoparticle formation, 2020 - 2022
- Yücel M., Kıdeyş A. E., Salihoğlu B., Tezcan D., Myroshnychenko V., EU Supported Other Project, EMODNET Chemistry Lot 4, 2019 - 2022
- Salihoğlu B., Yücel M., Kıdeyş A. E., Zenginer Yılmaz A., H2020 Project, MERSCIN: International Mersin Science Night Start, 2018 - 2020
- TEZCAN D., ÖZKAN K., UYSAL Z., AKOĞLU E., TUĞRUL S., KIDEYŞ A. E., YÜCEL M., SALİHOĞLU B., ZENGİNER YILMAZ A., Project Supported by Higher Education Institutions, Erdemli Zaman Serisi Deniz Araştırmaları 2017, 2017 - 2019
- Yücel M., Tezcan D., EU Supported Other Project, Emodnet Ingestion and safe-keeping of marine data, 2016 - 2019
- YÜCEL M., ERMİŞ E., Project Supported by Higher Education Institutions, Denizel Redoks Arayüzlerinde Oluşan Metal Nanoparçacıklarının Kompozisyon ve Morfolojisinin Belirlenmesi, 2016 - 2019
- Salihoğlu B., Tuğrul S., Fach Salihoğlu B. A., Yücel M., Özhan K., Özkan K., Akoğlu E., Tezcan D., Akçay I., Project Supported by Other Official Institutions, Marmara Denizi Bütünleşik Model Sistemi: Faz 1, 2017 - 2018
- YÜCEL M., TUBITAK Project, Karadeniz anoksik baseninde redoksa duyarlı bileşenlerin bentik dönüşümleri ve akıları: Güncel veri setleri ışığında bir diyajenetik model çalışması, 2015 - 2017
- Yücel M., TUBITAK Project, KARADENİZ ANOKSİK BASENİNDE REDOKSA DUYARLI BİLEŞENLERİN BENTİK DÖNÜŞÜMLERİ VE AKILARI GÜNCEL VERİ SETLERİ İŞİĞİNDA BİR DİYAJENETİK MODEL ÇALIŞMASI, 2015 - 2017

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

FRONTIERS IN MARINE SCIENCE, Journal Indexed in SCI-E, November 2021

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MARINE GEOLOGY, Journal Indexed in SCI-E, February 2021

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EARTH AND SPACE SCIENCE, SCI Journal, April 2020

Tasks In Event Organizations

Yücel M., Uygurer Z. P., Şahin Yücel E., Salihoğlu B., Marine Litter Action Forum / Deniz Atığı Eylem Forumu, Workshop Organization, İstanbul, Turkey, Kasım 2022

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

Publication: 85

Citation (WoS): 1096

Citation (Scopus): 1360

H-Index (WoS): 20

H-Index (Scopus): 21

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

Yücel M., TÜBA-GEBİP Ödülü, Türkiye Bilimler Akademisi, December 2018

Yücel M., TÜDAV Bilim Ödülü, Türk Deniz Araştırmaları Vakfı - Tüдав, November 2017

Yücel M., ODTÜ Geliştirme Vakfı Genç Araştırmacı Başarı Ödülü, Odtü Geliştirme Vakfı, May 2017