

No	Faculty/Department	Authors	Title	Source Title	Publication Date
1	IZTECH Faculty of Architecture/Architecture	Taşer, Aybüke; Kundakçı Koyunbaba, Başak; Kazanasmaz, Zehra Tuğçe	Thermal, daylight, and energy potential of building-integrated photovoltaic (BIPV) systems: A comprehensive review of effects and developments	Solar Energy	Feb 2023
2	IZTECH Faculty of Architecture/Architecture	Taşer, A.	Multi-objective Evolutionary Optimization of Photovoltaic Glass for Thermal, Daylight, and Energy Consideration	Msc thesis	June 2023
3	IZTECH Faculty of Architecture/Architecture	Taşer, A., Kazanasmaz, T.	Daylight Performance and Lighting Energy Savings of Amorphous and Crystalline Silicon Solar Cells in an Architecture Studio	EEEIC International conference on Environment and electrical engineering, 2023, Madrid	June 2023
4	IZTECH Faculty of Engineering	Khorrani, B., Ali, S., Sahin, O. G., & Gunduz, O	Model-Coupled GRACE-Based Analysis of Hydrological Dynamics of Drying Lake Urmia and its Basin	Hydrological Processes	April 2023
5	IZTECH Faculty of Engineering	Khorrani, B., & Gündüz, O.	Remote sensing-based monitoring and evaluation of the basin-wise dynamics of terrestrial water and groundwater storage fluctuations	Environmental Monitoring and Assessment,	June 2023
6	IZTECH Faculty of Engineering	Khorrani, B., Ali, S., & Gündüz, O.	Investigating the local-scale fluctuations of groundwater storage by using downscaled GRACE/GRACE-FO JPL mascon product Based on Machine Learning (ML) Algorithm	Water Resources Management	April 2023
7	IZTECH Faculty of Chemical and Environmental	Pazos, M., Sofuoglu, A., Sanromán, M.A.	Immobilization of esterase from Bacillus subtilis on Halloysite nanotubes and applications on dibutyl phthalate degradation	Environmental Technology and Innovation	
8	IZTECH Faculty of Chemical and Environmental	Ayri, I., Genisoglu, M., Sofuoglu, A., ...Birgul, A., Sofuoglu, S.C.	The effect of military conflict zone in the Middle East on atmospheric persistent organic pollutant contamination in its north		Science of the Total Environment, 2023
9	IZTECH Faculty of Engineering/Department of Food Engineering	Surek E, Sabancı K, Buyukkileci AO	The potential of walnut shells for production of oligosaccharides by liquid hot water treatment	Biomass Conversion and Biorefinery	July 2023
10	IZTECH Faculty of Engineering/Department of Food Engineering	Buyukkileci AO, Temelli N	Organosolv pretreatment of corncob for enzymatic hydrolysis of Xylan	Biomass Conversion and Biorefinery	January 2023
11	IZTECH Faculty of Engineering/Department of Food Engineering and Department of Chemical Engineering and IZTECH Faculty of Science/Chemistry	Zeybek N, Buyukkileci AO, Gulec S, Polat M, Polat H	Designing robust xylan/chitosan composite shells around drug-loaded MSNs: Stability in upper GIT and degradation in the colon microbiota	Journal of Drug Delivery Science and Technology	January 2023
12	Materials Science and Eng	Çapkin İ.Y., Gökelma M.	Characterization and Separation Behavior of Multi-layers in Aluminum-Rich Waste Pharmaceutical Blisters	Journal of Metals	September 2023
13	Materials Science and Eng	Çapkin İ.Y., Gökelma M.	An Investigation on Inclusions Forming During Remelting of Aluminum and Magnesium Scraps Under a Salt Flux	Journal of Metals	August 2023
14	Materials Science and Eng	Çapkin İ.Y., Gökelma M.	A Review on Characterization and Recyclability of Pharmaceutical Blisters	Cleaner Waste Systems	Feb 2023
15	Materials Science and Eng	Gökelma M., Önen Tüzgel R., Kaya A.Y., Özaydın O.	A Study on Recyclability of AISi7Mg0.3 Machining Waste	Black Sea Journal of Engineering and Science	July 2023
16	Materials Science and Eng	Habibzadeh A., Küçükler M.A., Gökelma M.	Review on the Parameters of Recycling NdFeB Magnets via a Hydrogenation Process	ACS OMEGA	May 2023
17	Chemical Engineering	Elif Güngörmüş, Sacide Alsoy Altinkaya	A new-generation poly (ether imide sulfone) based solvent resistant ultrafiltration membrane for a sustainable production of silica nanopowder	Separation and Purification Technology	January 2023
18	Chemical Engineering	Elif Güngörmüş, Erol Şeker, Sacide Alsoy Altinkaya	Antifouling Polydopamine-Modified Poly (ether sulfone) Membrane Immobilized With Alumina-Calcium Oxide Catalyst	Fuel	October 2023
19	Architecture	Saadet Kök, Ipek Akpınar	An attempt to read the change in aesthetics through Deleuze: IAA and SANART aesthetic congresses	Res Mobilis: International Research Journal of Furniture and Decorative Objects, ISSN:2255-2057	June 2023
20	Civil Engineering	Oguz Egilmez, Efthymia Staiou, and Cemalettin Donmez	Integration of Sustainable Design and Circular Economy Concepts in Civil Engineering Curriculum	11th european Conferenceon Education	July 2023
21	Architecture	Cogul, I, Kazanasmaz, T.	Literature Review On Smart Windows In Terms Of Daylight Performance, Visual Comfort and Human Perception	EEEIC International conference on Environment and electrical engineering, 2023, Madrid	June 2023
22	Architecture	Battal,C., Kazanasmaz, T, İpekoğlu, B.	Geleneksel konutlarda günışığı aydınlığının değerlendirilmesi: Kula geleneksel konutlarında başoda	Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi	2023
23	Energy Systems Engineering	Reza Nazerifard, Mousa Mohammadpourfard, Saeed Zeinali Heris	Design, thermodynamic and economic evaluation, and optimization of gasoline production from refinery furnaces flue gas	Energy Conversion and Management	2023
24	Energy Systems Engineering	Zahra Hajimohammadi Tabriz, Mousa Mohammadpourfard, Güliden Gökçen Akkurt, Saeed Zeinali Heris	Energy, exergy, exergoeconomic, and exergoenvironmental (4E) analysis of a new bio-waste driven multigeneration system for power, heating, hydrogen, and freshwater production: Modeling and a case study in Izmir	Energy Conversion and Management	2023

25	Energy Systems Engineering	Rasoul Najafi Anamaq, Leyla Khani, Mousa Mohammadpourfard, Saeed Zeinali Heris, Gül den Gökçen Akkurt	Comprehensive thermoeconomic study of a new solar thermosyphon-assisted multigeneration system	Solar Energy	2023
26	Energy Systems Engineering	Zahra Hajimohammadi Tabriz, Leyla Khani, Mousa Mohammadpourfard, Gulden G Akkurt	Biomass driven polygeneration systems: a review of recent progress and future prospects	Process Safety and Environmental Protection	2023
27	Energy Systems Engineering	Reza Nazerifard, Mousa Mohammadpourfard, Saeed Zeinali Heris	Optimization of the integrated ORC and carbon capture units coupled to the refinery furnace with the RSM-BBD method	Journal of CO2 Utilization	2022.12.1
28	Energy Systems Engineering	Leyla Khani, Zahra Hajimohammadi Tabriz, Mousa Mohammadpourfard, Gül den Gökçen Akkurt	Energy and exergy analysis of combined power, methanol, and light olefin generation system fed with shale gas	Sustainable Cities and Society	2022.12.1
29	Energy Systems Engineering	Demet Canpolat Tosun, Emin Açikkalp, Basar Caglar, Onder Altuntas, Arif Hepbasli	Proposal of novel exergy-based sustainability indices and case study for a biomass gasification combine cycle integrated with liquid metal magnetohydrodynamics	Process Safety and Environmental Protection	2023
30	IZTECH Faculty of Engineering/Department of Environmental Engineering	Youssef Mortada, Eyad Masad, Reginald B. Kogbara, Bilal Mansoor, Thomas Seers, Ahmad Hammoud, Ayman Karaki	Development of Ca(OH) ₂ -based geopolymer for additive manufacturing using construction wastes and nanomaterials	Case Studies in Construction Materials	June 2023
31	IZTECH Faculty of Engineering/Civil Engineering Department	Tolga Ercan, Nuri C. Onat, Nowreen Keya, Omer Tatari, Naveen Eluru, Murak Kucukvar	Autonomous electric vehicles can reduce carbon emissions and air pollution in cities	Transportation Research Part D: Transport and Environment	Nov 2022
32	IZTECH Faculty of Engineering/International Water Resources	Khalilullah Zulal	ASSESSMENT OF LAND USE CHANGE IMPACTS ON HYDROLOGICAL PARAMETERS IN PORSUK RIVER BASIN - TURKEY	Msc thesis	June 2023
33	IZTECH Faculty of Engineering/Environmental Engineering	Bilgiç, E., Tuna Tuygun, G. and Gündüz, O.	Development of an emission estimation method with satellite observations for significant forest fires and comparison with global fire emission inventories: Application to catastrophic fires of summer 2021 over the Eastern Mediterranean	Atmospheric Environment	September 2023
34	IZTECH Faculty of Engineering/Environmental Engineering	Şahin, O.G. and Gündüz, O.	Fusion of MODIS TERRA and SENTINEL SLSTR land surface temperature products for minimizing gaps in basin scale hydrological studies	12th World Congress on Water Resources and Environment (EWRA 2023) Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability	June 2023
35	IZTECH Faculty of Engineering/Environmental Engineering	Kazancı, Y., Gündüz, O. and Baycan, N.	Environmental assessment of Nif Creek in terms of microplastics: A mathematical modeling approach	12th World Congress on Water Resources and Environment (EWRA 2023) Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability	June 2023
36	IZTECH Faculty of Engineering/Environmental Engineering	Baycan, N., Alyürük, N., Kara, N., Alpergün, C., Kazancı, Y., and Gündüz, O.	Evaluation of microplastic pollution from treated wastewaters in terrestrial inland waters: A case study from Nif river	12th World Congress on Water Resources and Environment (EWRA 2023) Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability	June 2023
37	IZTECH Faculty of Engineering/Environmental Engineering	Khorrami, B., Gündüz, O.	Basin-Wise Drought Assessment Based On GRACE/GRACE-FO Observations And Fine Resolution FLDAS Hydrologic Model	HİDRO'2023: National Hydrogeology and Water Resources Symposium, Proceedings Book	May 2023
38	IZTECH Faculty of Engineering/Environmental Engineering	Gündüz, O., Şimşek, C.	Determination of Basin-Based Groundwater Thresholds	HİDRO'2023: National Hydrogeology and Water Resources Symposium, Proceedings Book	May 2023
39	IZTECH Faculty of Engineering/Environmental Engineering	Kazancı, Y., Alpergün, C., Kara, N., Alyürük, N., Gündüz, O., Baycan, N.	Environmental Assessment of a River Water Body for Microplastics: A Mathematical Modeling Approach	HİDRO'2023: National Hydrogeology and Water Resources Symposium, Proceedings Book	May 2023
40	IZTECH Faculty of Engineering/International Water Resources	Şahin, O.G., Gündüz, O.	Physics Based Modeling of Vertical Soil Moisture Profile in Root Zone Using FXW-M1 SWRC and HCC Curves	HİDRO'2023: National Hydrogeology and Water Resources Symposium, Proceedings Book	May 2023
41	IZTECH Faculty of Engineering/Environmental Engineering	Şahin, O.G., Kazancı, Y., Gündüz, O.	Hydrometeorological status and dynamic landuse analysis of Lake Marmara under water stress	International Gediz and Aegean River Basins Symposium (GEDIZSYMP2022) Proceedings Book	November 2022
42	IZTECH Faculty of Engineering/Civil Engineering	Elçi, S., Rinke, K.	Factors Influencing the Cyanobacterial Dominance in Lakes: Analysis of Lakes in Central Germany	Proceedings of the 40th IAHR World Congress, Vienna, Austria.	August 2023

43	IZTECH Faculty of Engineering/Civil Engineering	Hazar, O, Elçi, S.	Renewable Energy Powered Artificial Mixing of the Reservoirs	Proceedings of the 40th IAHR World Congress, Vienna, Austria.	August 2023
44	IZTECH Faculty of Engineering/Civil Engineering	Bor Türkben, A., Hazar, O. Elçi, S.	Morphological Analysis of Büyük Menderes River over the Years Using Satellite Imagery.	Proceedings of the 40th IAHR World Congress, Vienna, Austria.	August 2023
45	IZTECH Faculty of Engineering/Civil Engineering	Karakaya, D. Bor Türkben, A., Elçi, S.	Novel Design of a Vertical Axis Hydrokinetic Turbine.	Proceedings of the 40th IAHR World Congress, Vienna, Austria.	August 2023
46	IZTECH Faculty of Engineering/Civil Engineering	Karahan, SM; Elçi, S.	Assessment of future water demand in a semiarid region of Turkey: a case study of Tahtali-Seferihisar	Sustainable Water Resources Management	February 2023
47	IZTECH Faculty of Engineering/Civil Engineering	Elçi, S.; Hazar, O.; Baha	Destratification of Thermally Stratified Water Columns by Air Diffusers	Journal of Hydro-environment Research	January 2023
48	IZTECH Faculty of Engineering/Environmental Engineering	Ozkan A.	Screening diatom strains belonging to Cyclotella genus for chitin nanofiber production under photobioreactor conditions: Chitin productivity and characterization of physicochemical properties	Algal Research	March 2023
49	IZTECH Faculty of Engineering/Environmental Engineering	Ozkan A.	Dynamics of CO2 consumption, and biomass and lipid carbon production during photobioreactor cultivation of the diatom Cyclotella	Turkish Journal of Botany	March 2023
50	IZTECH Faculty of Engineering/Environmental Engineering	Chaderchi, B.M.A.	Improvement of energy performance using modular green systems as a retrofitting strategy on building envelope	Msc thesis	July 2023
51	IZTECH Faculty of Architecture/Architecture	Özsavaşçı,U.	Optimization of energy consumption and thermal comfort in historic buildings: case study of İzmir National Library Building, Türkiye	Msc thesis	March 2023
52	Faculty of Architecture, Department of Architecture	Couch, V.; Salata, S.; Saygın, N.; Frary A.; Arslan, B.	De-sealing Reverses Habitat Decay More Than Increasing Groundcover Vegetation	Climate	May 2022
53	Faculty of Architecture, Department of Architecture	Salata, S.; Thompson Couch, V.	Monitoring Soil Degradation processes for Ecological Compensation in the İzmir Institute of Technology Campus (Turkey)	Eng	July 2022
54	Faculty of Architecture, Department of Architecture	Salata, S.; Velibeyoğlu, K., Baba, A., Saygın, N., Thompson Couch, V., Uzelli, T.,	Adapting Cities to Pluvial Flooding: The Case of Izmir (Türkiye)	Sustainability	Dec 2022
55	Faculty of Engineering, Materials Science and Engineering.	Ç Erdem, T Isık, N Horzum, B Hazer, MM Demir	Electrospinning of fatty acid-based and metal incorporated polymers for the fabrication of eco-friendly fibers	Macromolecular Chemistry and Physics 223 (13), 2100438	
56	Faculty of Architecture, Department of City and Regional Planning	Özden, P. & Velibeyoglu, K.	Citizen science projects in the context of participatory approaches: The case of Izmir	Journal of Design for Resilience in Architecture & Planning	May 2023
57	Faculty of Architecture, Department of City and Regional Planning	Fatma Şenol, İ. Atay-Kaya	GIS-based mappings of park accessibility at multiple spatial scales: A research framework with a case study of Izmir	Local Environment: The International Journal of Justice and Sustainability	Dec 2021
58	Faculty of Architecture, Department of City and Regional Planning	Işın Can Traunmüller, İrem İnce Keller & Fatma Şenol	Application of space syntax in neighbourhood park research: an investigation of multiple socio-spatial attributes of parks	Local Environment: The International Journal of Justice and Sustainability	Jan 2023
59	Faculty of Architecture, Department of City and Regional Planning	Şenol, F., Öztürk, S. P., & Atay Kaya, İ.	An urban plan evaluation for park accessibility: a case in Izmir (Türkiye)	URBAN DESIGN International	May 2023
60	Faculty of Architecture, Department of City and Regional Planning	İpek KAŞTAŞ UZUN, Fatma ŞENOL	Recent "Nation Gardens" and Historical Development of Public Green Spaces in Turkey	Art-Sanat Journal	2020
61	Faculty of Architecture, Department of Conservation and Restoration of Cultural Heritage	Ayşen ETLACAKUŞ, Mine TURAN	Characteristics of Housing in Darkale Rural Settlement, Soma, Manisa	Periodica Polytechnica Architecture	2023
62	Faculty of Architecture, Department of Conservation and Restoration of Cultural Heritage	Merve CALISKAN, Mine TURAN	Integration of Archaeological Heritage in Metropolitan City Centres with Urban Life: Agora of Smyrna	Conservation and Management of Archaeological Sites	2021
63	Faculty of Architecture, Department of Conservation and Restoration of Cultural Heritage	Elif Ece YONETKEN, Mine TURAN	Impact of Conservation Planning and Implementations on Cultural Heritage Values in the Historic Urban Site of Kuşadası	Periodica Polytechnica Architecture	2021
64	Faculty of Architecture, Department of Conservation and Restoration of Cultural Heritage	Figen AKPINAR, Mine TURAN, Özge Deniz TOKÖZ	Urban protection and renewal dilemma: İzmir Mezarlıkbaşı	ITU A-Z	2021
65	Faculty of Architecture, Department of City and Regional Planning	Yavuz Duvarcı & Figen Akpınar	Using Personal Rapid Transit as an Effective Transport Solution in Historical Downtown Areas: A Case from Historic Kemeraltı, Izmir	Planlama	2023
66	Faculty of Architecture, Department of City and Regional Planning	Damla Özsoy	The Effects of Various Intelligent Transportation Systems Applications on the Transportation Disadvantaged Groups	Msc thesis (& Yavuz Duvarcı ile BAP İYTE 2023 raporu)	June 20023
67	IZTECH Faculty of Architecture/Architecture	Bariş Ali Timur, Tahsin Başaran & Başak İpekoğlu	On-Site Measurements of Temperature and Humidity Conditions for the Comparison of Urban and Rural Sub-Spaces of Traditional Settlements: Historical City of Muğla, Turkey	International Journal of Architectural Heritage	03 May 2023
68	IZTECH Faculty of Architecture/Architecture	Mümine GERÇEK ŞEN	INVESTIGATIONS OF INDOOR THERMAL AND AIR FLOW CONDITIONS IN A TOBACCO WAREHOUSE	PhD Thesis	July 2023
69	Faculty of Architecture, Department of Conservation and Restoration of Cultural Heritage	Elif ÇAM, Elif UĞURLU SAĞIN	Characteristics and Production Technologies of Byzantine Building Bricks from the Anaia Church in Western Anatolia	Clay and Clay Minerals	August 2023
70	IZTECH/Faculty of Engineering/Food Engineering	Gulsun Evrendilek, Nurullah Bulut, Sibel Uzunur	Assessing Edible Composite Film Polymer from Potato Industry Effluent under High Hydrostatic Pressure and its Antimicrobial Properties.	Clean Soil Air Water	November 2022

71	IZTECH/Faculty of Engineering/Food Engineering	Ahmet Yemenicioğlu	Edible Food Packaging with Natural Hydrocolloids and Active Agents	CRC Press, Taylor and Francis Grup	November 2022
72	IZTECH/Faculty of Engineering/Food Engineering	Çavdaroğlu, E., Büyüktaş, D., Farris, S., & Yemenicioğlu, A	Novel edible films of pectins extracted from low-grade fruits and stalk wastes of sun-dried figs: Effects of pectin composition and molecular properties on film characteristics.	Food Hydrocolloids	2023
73	Department of Photonics	Gizem Saygi, Ozlem Kap, Fehime Cakicioglu Ozkan, Canan Varlikli	Photocatalytic Reactors Design and Operating Parameters on the Wastewater Organic Pollutants Removal	Chapter 5 of Photocatalysis for Environmental Remediation and Energy Production: Recent Advances and Applications	07.05.2023
74	Department of Photonics	Erkan Aksoy, Volkan Bozkus, Canan Varlikli	Tuning the colour of solution processed perylene tetraester based OLEDs from yellowish-green to greenish-white: A molecular engineering approach	Dyes and Pigments	01.03.2023
75	Department of Photonics	Guvenc, C. M., Kocabas, A., & Balci, S.	Polar solvent-free room temperature synthesis of CsPbX ₃ (X= Br, Cl) perovskite nanocubes	Journal of Materials Chemistry C	February 2023
76	Department of Photonics	Inanc, D. O., Ng, Z. K., Baskurt, M., Keles, B., Vardar, G., Sahin, H., ... & Teo, E. H. T.	A multi-layered graphene based gas sensor platform for discrimination of volatile organic compounds via differential intercalation	Journal of Materials Chemistry C	March 2023
77	Energy Systems Engineering	Ümütlü Ayaz H.C., Kırıl Z., Karadeniz Z.H.	Experimental investigation of NACA 4415 airfoil using vibration data for stall detection	Aircraft Engineering and Aerospace Technology	June 2023
78	Eşli Çalışan Düşey Eksenli Türbin Performansının İki Boyutlu Benzetimi	Akgül U., Kökey I., Karadeniz Z.H., Turgut A.	Eşli Çalışan Düşey Eksenli Türbin Performansının İki Boyutlu Benzetimi	DEÜ Fen ve Mühendislik Dergisi,	January 2023
79	Environmental Engineering	Sengur O., Akgul D., Bayraktar A., Calli B.	Effects of vacuum stripping on anaerobic digestion of chicken manure digestate	CHANIA 2023 10 th International Conference on Sustainable Solid Waste Management	Jun 2023
80	Environmental Engineering	Sengur O., Akgul D., Bayraktar A., Calli B.	A Novael Digester Configuration for Simultaneous Biogas Production and Ammonia Recovery	International Sustainable Resource Recovery Strategies Toward Zero Waste (FULLRECO4US)	September 2023
81	Materials Science and Eng	V.C. Ozalp, S. Ucak, A.D. Dursun, M. Sudagidan, O. Icin, C. Vakifahmetoglu, L.M. Henning, U. Simon, A. Gurlo	Targeted multidrug delivery systems to kill antibiotic-resistant Staphylococcus aureus	Journal of Drug Delivery Science and Technology	September 2023
82	Rectorate, International Office	BUHARİ GÜLMEZ, Didem, and Bengü AYDIN DİKMEN	Gezegensel Siyaset Manifestosunun Ardından Yeşil Teorinin Uluslararası İlişkilerdeki Konumu	Uluslararası İlişkiler / International Relations	
83	Rectorate, International Office	AYDIN DİKMEN, Bengü	Küresel Çevre Politikaları ve Sürdürülebilirlik	EUSUSGOV Policy Paper	
84	Technology, Design and Innovation Management	Gizem Kaplan	Exploring Determinants of Micro-Mobility Adoption For Environmental Sustainability	Msc thesis; supervisors Başoğlu Nuri, Çorbacıoğlu Eda	.June 2023
85	Technology, Design and Innovation Management	Kaplan Gizem, Çorbacıoğlu Eda, Başoğlu Nuri	Segmentation Of Society Based On Attitude Toward Environmental Issues	ETMS-2023-International Engineering and Technology Management Summit	October 2023