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Eğitim Bilgileri

Doktora, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2003 - 2010

Yüksek Lisans, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2000 - 2003

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Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Kimya

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Selective photocatalytic and photoelectrocatalytic synthesis of valuable compounds in aqueous medium**
Bellardita M., Loddo V., Augugliaro V., Palmisano L., YURDAKAL S.
Catalysis Today, cilt.432, 2024 (SCI-Expanded)
- II. **Transient photocatalytic oxidation of toluene vapor via nanostructured layers prepared by sol-gel on anatase particles**
Soria J., Sanz J., Sobrados I., Fresno F., YURDAKAL S., Augugliaro V.
Journal of Environmental Chemical Engineering, cilt.12, sa.1, 2024 (SCI-Expanded)
- III. **Voltammetric determination of arbutin using carbon paste electrode modified with low crystalline home-prepared rutile TiO₂ nanoparticles**
Özcan L., Ünlüsoy B., Yurdakal S.
Materials Chemistry and Physics, cilt.301, 2023 (SCI-Expanded)
- IV. **Selective photoelectrocatalytic oxidation of 3-methylpyridine to vitamin B₃ by WO₃ decorated nanotube-structured TiO₂**
Çetinkaya S., Özcan L., Alagöz O., Palmisano L., Yurdakal S.
Chemical Communications, cilt.59, sa.38, ss.5741-5744, 2023 (SCI-Expanded)
- V. **Preparation of PHEMA/TiO₂ nanocomposites by combination of in-situ polymerization/hydrothermal method and determination of their thermal, swelling, biological and dielectric properties**

Erol I., Yurdakal S., Demirelli K., Gurler Z.

JOURNAL OF POLYMER RESEARCH, cilt.29, sa.7, 2022 (SCI-Expanded)

- VI. **Selective Photocatalytic Oxidation of Glycerol and 3-Pyridinemethanol by Nanotube/Nanowire-Structured TiO₂ Powders Obtained by Breakdown Anodization**
Cetinkaya S., Khamidov G., Ozcan L., Palmisano L., Yurdakal S.
FRONTIERS IN CHEMISTRY, cilt.10, 2022 (SCI-Expanded)
- VII. **Selective photoelectrocatalytic oxidation of glycerol by nanotube, nanobelt and nanosponge structured TiO₂ on Ti plates**
Cetinkaya S., Khamidov G., Oezcan L., Palmisano L., Yurdakal S.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, cilt.10, sa.2, 2022 (SCI-Expanded)
- VIII. **Partial photoelectrocatalytic oxidation of 3-pyridinemethanol by Pt, Au and Pd loaded TiO₂ nanotubes on Ti plate**
YURDAKAL S., Cetinkaya S., Ozcan L., Gok O., Palmisano L.
CATALYSIS TODAY, cilt.380, ss.248-258, 2021 (SCI-Expanded)
- IX. **Aqueous selective photocatalytic oxidation of salicyl alcohol by TiO₂ catalysts: Influence of some physico-chemical features**
Yurdakal S., Bellardita M., Pibiri I., Palmisano L., Loddo V.
CATALYSIS TODAY, cilt.380, ss.16-24, 2021 (SCI-Expanded)
- X. **Preface to the special issue entitled "New frontiers in photo(thermo)catalysis" in honour of Prof. Leonardo Palmisano**
Augugliaro V., Loddo V., Bellardita M., Marci G., Yurdakal S.
CATALYSIS TODAY, cilt.380, ss.1-2, 2021 (SCI-Expanded)
- XI. **Partial photocatalytic oxidations of 3-pyridinemethanol and 3-picoline by TiO₂ prepared in HCl, HNO₃ and H₂SO₄ at different temperatures**
Cetinkaya S., YURDAKAL S.
CATALYSIS TODAY, cilt.380, ss.237-247, 2021 (SCI-Expanded)
- XII. **Tuning the selectivity to aldehyde via pH regulation in the photocatalytic oxidation of 4-methoxybenzyl alcohol and vanillyl alcohol by TiO₂ catalysts**
Bellardita M., YURDAKAL S., Tek B. S., Degirmenci C., Palmisano G., Loddo V., Palmisano L., Soria J., Sanz J., Augugliaro V.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, cilt.9, sa.4, 2021 (SCI-Expanded)
- XIII. **Selective photocatalytic oxidation of 3-pyridinemethanol on platinized acid/base modified TiO₂**
YURDAKAL S., Cetinkaya S., Augugliaro V., Palmisano G., Sa J., Lewin E., Garlisi C.
CATALYSIS SCIENCE & TECHNOLOGY, cilt.11, sa.13, ss.4549-4559, 2021 (SCI-Expanded)
- XIV. **Alkaline treatment as a means to boost the activity of TiO₂ in selective photocatalytic processes**
YURDAKAL S., Cetinkaya S., Augugliaro V., Palmisano G., Soria J., Sanz J., Torralvo M. J., Livraghi S., Giamello E., Garlisi C.
CATALYSIS SCIENCE & TECHNOLOGY, cilt.10, sa.15, ss.5000-5012, 2020 (SCI-Expanded)
- XV. **Photoelectrocatalytic oxidation of 3-pyridinemethanol to 3-pyridinemethanal and vitamin B-3 by TiO₂ nanotubes**
Yurdakal S., Cetinkaya S., Sarlak M. B., Ozcan L., Loddo V., Palmisano L.
CATALYSIS SCIENCE & TECHNOLOGY, cilt.10, sa.1, ss.124-137, 2020 (SCI-Expanded)
- XVI. **Heterogeneous photocatalysis: guidelines on experimental setup, catalyst characterization, interpretation, and assessment of reactivity**
Parrino F., Loddo V., Augugliaro V., Camera-Roda G., Palmisano G., Palmisano L., YURDAKAL S.
CATALYSIS REVIEWS-SCIENCE AND ENGINEERING, cilt.61, sa.2, ss.163-213, 2019 (SCI-Expanded)
- XVII. **Photoelectrocatalytic Degradation of Paraquat by Pt Loaded TiO₂ Nanotubes on Ti Anodes**
Ozcan L., Mutlu T., YURDAKAL S.
MATERIALS, cilt.11, sa.9, 2018 (SCI-Expanded)
- XVIII. **Influence of the Preparation Temperature on the Photocatalytic Activity of 3D-Ordered Macroporous Anatase Formed with an Opal Polymer Template**

Jose Torralvo-Fernandez M., Enciso E., Martinez S., Sobrados I., Sanz J., Tonti D., Soria J., YURDAKAL S., Palmisano G., Augugliaro V.

ACS APPLIED NANO MATERIALS, cilt.1, sa.6, ss.2567-2578, 2018 (SCI-Expanded)

- XIX. **Anatase photocatalyst with supported low crystalline TiO₂: The influence of amorphous phase on the activity**
Torralvo M. J., Sanz J., Sobrados I., Soria J., Garlisi C., Palmisano G., Cetinkaya S., YURDAKAL S., Augugliaro V.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.221, ss.140-151, 2018 (SCI-Expanded)
- XX. **Selective photoelectrocatalytic oxidation of 5-(hydroxymethyl)-2-furaldehyde in water by using Pt loaded nanotube structure of TiO₂ on Ti photoanodes**
Ozcan L., Yalcin P., Alagoz O., YURDAKAL S.
CATALYSIS TODAY, cilt.281, ss.205-213, 2017 (SCI-Expanded)
- XXI. **Anatase nanoparticles boundaries resulting from titanium tetrachloride hydrolysis**
Sanz J., Sobrados I., Soria J., YURDAKAL S., Augugliaro V.
CATALYSIS TODAY, cilt.281, ss.198-204, 2017 (SCI-Expanded)
- XXII. **Heterogeneous photocatalysis from fundamentals to possible applications**
Palmisano L., Loddo V., YURDAKAL S.
CATALYSIS TODAY, cilt.281, ss.1, 2017 (SCI-Expanded)
- XXIII. **Green photocatalytic synthesis of vitamin B-3 by Pt, loaded TiO₂ photocatalysts**
YURDAKAL S., Yanar S. O., Cetinkaya S., Alagoz O., Yalcin P., Ozcan L.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.202, ss.500-508, 2017 (SCI-Expanded)
- XXIV. **Selective photocatalytic oxidation of aromatic alcohols in solar-irradiated aqueous suspensions of Pt, Au, Pd and Ag loaded TiO₂ catalysts**
YURDAKAL S., Tek B. S., Degirmenci C., Palmisano G.
CATALYSIS TODAY, cilt.281, ss.53-59, 2017 (SCI-Expanded)
- XXV. **The effect of the surface disordered layer on the photoreactivity of titania nanoparticles**
Soria J., Sanz J., Torralvo M. J., Sobrados I., Garlisi C., Palmisano G., Cetinkaya S., YURDAKAL S., Augugliaro V.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.210, ss.306-319, 2017 (SCI-Expanded)
- XXVI. **Selective photooxidation of ortho-substituted benzyl alcohols and the catalytic role of ortho-methoxybenzaldehyde**
Scandura G., Palmisano G., YURDAKAL S., Tek B. S., Ozcan L., Loddo V., Augugliaro V.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.328, ss.122-128, 2016 (SCI-Expanded)
- XXVII. **Electrochemical Determination of Bisphenol A with Pencil Graphite Electrodes Modified with Co(II), Ni(II), Cu(II) and Fe(II) Phthalocyaninetetrasulfonates**
Ozcan L., Altuntas M., Buyuksagis A., Turk H., YURDAKAL S.
ANALYTICAL SCIENCES, cilt.32, sa.8, ss.881-886, 2016 (SCI-Expanded)
- XXVIII. **Heterogeneous Photocatalysis and Photoelectrocatalysis: From Unselective Abatement of Noxious Species to Selective Production of High-Value Chemicals**
Augugliaro V., Camera-Roda G., Loddo V., Palmisano G., Palmisano L., Soria J., YURDAKAL S.
JOURNAL OF PHYSICAL CHEMISTRY LETTERS, cilt.6, sa.10, ss.1968-1981, 2015 (SCI-Expanded)
- XXIX. **Unexpectedly ambivalent O-2 role in the autocatalytic photooxidation of 2-methoxybenzyl alcohol in water**
Palmisano G., Scandura G., Augugliaro V., Loddo V., Pace A., Tek B. S., YURDAKAL S., Palmisano L.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.403, ss.37-42, 2015 (SCI-Expanded)
- XXX. **N-Doped Anatase/Rutile Photocatalysts for the Synthesis of Aromatic Aldehydes Under Ultraviolet and Solar Irradiation**
Tek B. S., YURDAKAL S., Ozcan L., Augugliaro V., Loddo V., Palmisano G.
SCIENCE OF ADVANCED MATERIALS, cilt.7, sa.11, ss.2306-2319, 2015 (SCI-Expanded)
- XXXI. **Facile two-step preparation of polystyrene/anatase TiO₂ core/shell colloidal particles and their potential use as an oxidation photocatalyst**
Karabacak R. B., Erdem M., YURDAKAL S., Cimen Y., Turk H.
MATERIALS CHEMISTRY AND PHYSICS, cilt.144, sa.3, ss.498-504, 2014 (SCI-Expanded)

- XXXII. **The influence of the anatase nanoparticles boundaries on the titania activity performance**
YURDAKAL S., Augugliaro V., Sanz J., Soria J., Sobrados I., Torralvo M. J.
JOURNAL OF CATALYSIS, cilt.309, ss.97-104, 2014 (SCI-Expanded)
- XXXIII. **Synthesis, characterization, thermal and optical properties of styrene derivatives having pendant p-substituted benzylic ether groups**
Erol I., Ozcan L., YURDAKAL S.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.114, sa.1, ss.377-385, 2013 (SCI-Expanded)
- XXXIV. **Photocatalytic Selective Oxidation of 5-(Hydroxymethyl)-2-furaldehyde to 2,5-Furandicarbaldehyde in Water by Using Anatase, Rutile, and Brookite TiO₂ Nanoparticles**
YURDAKAL S., Tek B. S., Alagoz O., Augugliaro V., Loddo V., Palmisano G., Palmisano L.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, cilt.1, sa.5, ss.456-461, 2013 (SCI-Expanded)
- XXXV. **Photoelectrocatalytic selective oxidation of 4-methoxybenzyl alcohol in water by TiO₂ supported on titanium anodes**
Ozcan L., YURDAKAL S., Augugliaro V., Loddo V., Palmas S., Palmisano G., Palmisano L.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.132-133, ss.535-542, 2013 (SCI-Expanded)
- XXXVI. **Extruded expanded polystyrene sheets coated by TiO₂ as new photocatalytic materials for foodstuffs packaging**
Loddo V., Marci G., Palmisano G., YURDAKAL S., Brazzoli M., Garavaglia L., Palmisano L.
APPLIED SURFACE SCIENCE, cilt.261, ss.783-788, 2012 (SCI-Expanded)
- XXXVII. **Partial oxidation of aromatic alcohols via TiO₂ photocatalysis: the influence of substituent groups on the activity and selectivity**
YURDAKAL S., Augugliaro V.
RSC ADVANCES, cilt.2, sa.22, ss.8375-8380, 2012 (SCI-Expanded)
- XXXVIII. **Overview on oxidation mechanisms of organic compounds by TiO₂ in heterogeneous photocatalysis**
Augugliaro V., Bellardita M., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C-PHOTOCHEMISTRY REVIEWS, cilt.13, sa.3, ss.224-245, 2012 (SCI-Expanded)
- XXXIX. **Influence of Amorphous TiO_{2-x} on Titania Nanoparticle Growth and Anatase-to-Rutile Transformation**
Sanz J., Soria J., Sobrados I., YURDAKAL S., Augugliaro V.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.116, sa.8, ss.5110-5115, 2012 (SCI-Expanded)
- XL. **Enhancing selectivity in photocatalytic formation of p-anisaldehyde in aqueous suspension under solar light irradiation via TiO₂ N-doping**
YURDAKAL S., Augugliaro V., Loddo V., Palmisano G., Palmisano L.
NEW JOURNAL OF CHEMISTRY, cilt.36, sa.9, ss.1762-1768, 2012 (SCI-Expanded)
- XLI. **Titania Photocatalysts for Selective Oxidations in Water**
Palmisano L., Augugliaro V., Bellardita M., Di Paola A., Lopez E. G., Loddo V., Marci G., Palmisano G., YURDAKAL S.
CHEMSUSCHEM, cilt.4, sa.10, ss.1431-1438, 2011 (SCI-Expanded)
- XLII. **Photocatalytic process intensification by coupling with pervaporation**
Camera-Roda G., Santarelli F., Augugliaro V., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
CATALYSIS TODAY, cilt.161, sa.1, ss.209-213, 2011 (SCI-Expanded)
- XLIII. **Advances in selective conversions by heterogeneous photocatalysis**
Palmisano G., Garcia-Lopez E., Marci G., Loddo V., YURDAKAL S., Augugliaro V., Palmisano L.
CHEMICAL COMMUNICATIONS, cilt.46, sa.38, ss.7074-7089, 2010 (SCI-Expanded)
- XLIV. **Kinetics of 4-Methoxybenzyl Alcohol Oxidation in Aqueous Solution in a Fixed Bed Photocatalytic Reactor**
YURDAKAL S., Loddo V., Palmisano G., Augugliaro V., Berber H., Palmisano L.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.49, sa.15, ss.6699-6708, 2010 (SCI-Expanded)
- XLV. **Partial photocatalytic oxidation of glycerol in TiO₂ water suspensions**
Augugliaro V., El Nazer H. A. H., Loddo V., Mele A., Palmisano G., Palmisano L., YURDAKAL S.
CATALYSIS TODAY, cilt.151, sa.1-2, ss.21-28, 2010 (SCI-Expanded)

- XLVI. **Graphite-supported TiO₂ for 4-nitrophenol degradation in a photoelectrocatalytic reactor**
Palmisano G., Loddo V., El Nazer H. H., YURDAKAL S., Augugliaro V., Ciriminna R., Pagliaro M.
CHEMICAL ENGINEERING JOURNAL, cilt.155, sa.1-2, ss.339-346, 2009 (SCI-Expanded)
- XLVII. **Determination of Photoadsorption Capacity of Polychrystalline TiO₂ Catalyst in Irradiated Slurry**
Augugliaro V., YURDAKAL S., Loddo V., Palmisano G., Palmisano L.
PHOTOCATALYTIC TECHNOLOGIES, cilt.36, ss.1-35, 2009 (SCI-Expanded)
- XLVIII. **A quantitative method of photoadsorption determination for irradiated catalyst in liquid-solid system**
YURDAKAL S., Loddo V., Palmisano G., Augugliaro V., Palmisano L.
CATALYSIS TODAY, cilt.143, sa.3-4, ss.189-194, 2009 (SCI-Expanded)
- XLIX. **Selective photocatalytic oxidation of 4-substituted aromatic alcohols in water with rutile TiO₂ prepared at room temperature**
YURDAKAL S., Palmisano G., Loddo V., Alagoz O., Augugliaro V., Palmisano L.
GREEN CHEMISTRY, cilt.11, sa.4, ss.510-51, 2009 (SCI-Expanded)
- L. **Self-assembled titania-silica-sepiolite based nanocomposites for water decontamination**
Nieto-Suarez M., Palmisano G., Ferrer M. L., Concepcion Gutierrez M., YURDAKAL S., Augugliaro V., Pagliaro M., del Monte F.
JOURNAL OF MATERIALS CHEMISTRY, cilt.19, sa.14, ss.2070-2075, 2009 (SCI-Expanded)
- LI. **Home-prepared anatase, rutile, and brookite TiO₂ for selective photocatalytic oxidation of 4-methoxybenzyl alcohol in water: reactivity and ATR-FTIR study**
Augugliaro V., Loddo V., Jose Lopez-Munoz M., Marquez-Alvarez C., Palmisano G., Palmisano L., YURDAKAL S.
PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES, cilt.8, sa.5, ss.663-669, 2009 (SCI-Expanded)
- LII. **Environmentally Friendly Photocatalytic Oxidation of Aromatic Alcohol to Aldehyde in Aqueous Suspension of Brookite TiO₂**
Addamo M., Augugliaro V., Bellardita M., Di Paola A., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
CATALYSIS LETTERS, cilt.126, sa.1-2, ss.58-62, 2008 (SCI-Expanded)
- LIII. **Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home prepared titanium dioxide 2. Intrinsic and surface features of catalysts**
Augugliaro V., Kisch H., Loddo V., Jose Lopez-Munoz M., Marquez-Alvarez C., Palmisano G., Palmisano L., Parrino F., YURDAKAL S.
APPLIED CATALYSIS A-GENERAL, cilt.349, sa.1-2, ss.189-197, 2008 (SCI-Expanded)
- LIV. **Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home-prepared titanium dioxide 1. Selectivity enhancement by aliphatic alcohols**
Augugliaro V., Kisch H., Loddo V., Lopez-Munoz M. J., Marquez-Alvarez C., Palmisano G., Palmisano L., Parrino F., YURDAKAL S.
APPLIED CATALYSIS A-GENERAL, cilt.349, sa.1-2, ss.182-188, 2008 (SCI-Expanded)
- LV. **Oxidation of aromatic alcohols in irradiated aqueous suspensions of commercial and home-prepared ruffle TiO₂: A selectivity study**
Augugliaro V., Caronna T., Loddo V., Marci G., Palmisano G., Palmisano L., YURDAKAL S.
CHEMISTRY-A EUROPEAN JOURNAL, cilt.14, sa.15, ss.4640-4646, 2008 (SCI-Expanded)
- LVI. **TiO₂/ORMOSIL thin films doped with phthalocyanine dyes: New photocatalytic devices activated by solar light**
Palmisano G., Gutierrez M. C., Ferrer M. L., Gil-Luna M. D., Augugliaro V., YURDAKAL S., Pagliaro M.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.112, sa.7, ss.2667-2670, 2008 (SCI-Expanded)
- LVII. **Nanostructured rutile TiO₂ for selective photocatalytic oxidation of aromatic alcohols to aldehydes in water**
YURDAKAL S., Palmisano G., Loddo V., Augugliaro V., Palmisano L.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, cilt.130, sa.5, ss.1568-1569, 2008 (SCI-Expanded)
- LVIII. **Photocatalytic Degradation of 4-Nitrophenol in a Continuous Reactor Containing Titanium Dioxide Supported on Glass Beads**
Yurdakal S., Loddo V., Palmisano G., Augugliaro V., Berber H., Palmisano L.

- Journal of Advanced Oxidation Technologies, cilt.11, sa.3, ss.501-509, 2008 (SCI-Expanded)
- LIX. **Photodegradation of pharmaceutical drugs in aqueous TiO₂ suspensions: Mechanism and kinetics**
YURDAKAL S., Loddo V., Augugliaro V., Berber H., Palmisano G., Palmisano L.
CATALYSIS TODAY, cilt.129, sa.1-2, ss.9-15, 2007 (SCI-Expanded)
- LX. **Optical properties of TiO₂ suspensions: Influence of pH and powder concentration on mean particle size**
YURDAKAL S., Loddo V., Ferrer B. B., Palmisano G., Augugliaro V., Farreras J. G., Palmisano L.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.46, sa.23, ss.7620-7626, 2007 (SCI-Expanded)
- LXI. **Photocatalytic oxidation of nitrobenzene and phenylamine: Pathways and kinetics**
Palmisano G., Loddo V., Augugliaro V., Palmisano L., YURDAKAL S.
AIChE JOURNAL, cilt.53, sa.4, ss.961-968, 2007 (SCI-Expanded)
- LXII. **Photocatalytic selective oxidation of 4-methoxybenzyl alcohol to aldehyde in aqueous suspension of home-prepared titanium dioxide catalyst**
Palmisano G., YURDAKAL S., Augugliaro V., Loddo V., Palmisano L.
ADVANCED SYNTHESIS & CATALYSIS, cilt.349, sa.6, ss.964-970, 2007 (SCI-Expanded)
- LXIII. **Selective photocatalytic oxidation of 4-methoxybenzyl alcohol to p-anisaldehyde in organic-free water in a continuous annular fixed bed reactor**
Loddo V., YURDAKAL S., Palmisano G., Eduardo Imoberdorf G., Antonio Irazoqui H., Alfano O. M., Augugliaro V., Berber H., Palmisano L.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, cilt.5, 2007 (SCI-Expanded)

Kitap & Kitap Bölümleri

- I. **Selective photoelectrocatalytic transformations of organic compounds**
YURDAKAL S., ALAGÖZ O., ÖZCAN L., Palmisano L.
Photoelectrocatalysis: Fundamentals and Applications, Leonardo Palmisano, Sedat Yurdakal, Editör, Elsevier, ss.361-420, 2023
- II. **Future perspectives**
YURDAKAL S., Parrino F., Palmisano L.
Photoelectrocatalysis: Fundamentals and Applications, Leonardo Palmisano, Sedat Yurdakal, Editör, Elsevier, ss.441-459, 2023
- III. **Synthesis, deposition and characterization of titanium dioxide and titanium dioxide based materials**
Bellardita M., YURDAKAL S., Palmisano L.
TiO₂ and its applications, Francesco Parrino and Leonardo Palmisano, Editör, Elsevier, ss.87-165, 2020
- IV. **Economical aspects, toxicity, and environmental fate of cerium oxide**
Loddo V., YURDAKAL S., Parrino F.
Cerium Oxide (CeO₂): Synthesis, Properties and Applications, Salvatore Scirè and Leonardo Palmisano, Editör, Elsevier, ss.359-373, 2020
- V. **Adsorption Isotherms and BET, SEM, FTIR, UV-Vis, Photoluminescence, and Electrochemical Characterizations**
YURDAKAL S., Garlisi C., ÖZCAN L., Bellardita M., Palmisano G.
Heterogeneous Photocatalysis: Relationships with Heterogeneous Catalysis and Perspectives, Giuseppe Marci, Leonardo Palmisano, Editör, Elsevier, Amsterdam, ss.87-152, 2019
- VI. **Preparation of catalysts and photocatalysts used for similar processes**
Bellardita M., Di Paola A., YURDAKAL S., Palmisano L.
Heterogeneous Photocatalysis: Relationships with Heterogeneous Catalysis and Perspectives, Giuseppe Marci, Leonardo Palmisano, Editör, Elsevier, Amsterdam, ss.25-56, 2019

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Asit, baz muamelesi ve Pt katkısı ile etkinliği arttırılmış TiO₂ fotokatalizörleri ile çevre dostu koşullarda vitamin B3 sentezi**
YURDAKAL S., Çetinkaya S., Yanar Ş. Ö., Augugliaro V., Garlisi C., Palmisano G., Soria J.
29. Ulusal Kimya Kongresi, Ankara, Türkiye, 10 - 14 Eylül 2017
- II. **Çevre Dostu Koşullarda Pt Katkılı TiO₂'lerle Fotokatalitik Vitamin B3 Sentezi**
YURDAKAL S., Yanar Ş. Ö., Çetinkaya S., ALAGÖZ O., Yalçın P., ÖZCAN L.
6. Fiziksel Kimya Kongresi, Türkiye, 15 - 18 Mayıs 2017
- III. **Nanotüp Yapılı TiO₂ Fotoanotlar Kullanılarak Parakuatin Fotoelektrokatalitik Bozundurulması**
ÖZCAN L., Mutlu T., YURDAKAL S.
6. Fiziksel Kimya Kongresi, Türkiye, 15 - 18 Mayıs 2017
- IV. **Laboratuvar Sentezi Azot Katkılı Anataz Rutil bifazik TiO₂ Fotokatalizörler ile p Anisaldehitin Çevre dostu Koşullarda Sentezi**
YURDAKAL S., Tek B. S., ÖZCAN L., Augugliaro V., Loddo V., Palmisano G.
5. Fiziksel Kimya Kongresi, Türkiye, 16 - 19 Mayıs 2015
- V. **Heterogeneous photocatalysis a promising tool for green organic syntheses**
Palmisano L., Augugliaro V., Bellardita M., Di Paola A., Camera Roda G., Garcia Lopez E. I., Loddo V., Marci G., Palmisano G., Parrino F., et al.
Avagadro Colloquia 2015- Chemistry and Light, Consiglio Nazionale delle Ricerche, roma, 22 Mayıs 2015
- VI. **N doped anatase rutile for photocatalytic synthesis of aromatic aldehydes synthesis under UV and solar irradiation**
Tek B. S., YURDAKAL S., ÖZCAN L., Augugliaro V., Loddo V., Palmisano G.
Finecat 2015, Symposium on heterogeneous catalysis for fine chemicals, 8 - 09 Nisan 2015
- VII. **Polistiren Anataz TiO₂ Kolloidal Partiküllerinin Hazırlanması ve Bu Partiküllerin Oksidasyon Fotokatalizörü Olarak Kullanımı**
KARABACAK R. B., ERDEM M., YURDAKAL S., ÇİMEN Y., TÜRK H.
4. Fiziksel Kimya Kongresi, Denizli, Türkiye, 5 - 08 Haziran 2014
- VIII. **Removal of Intermediate Compounds in a Photocatalytic Process**
Roda G. C., Santarelli F., Augugliaro V., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6), Prague, Çek Cumhuriyeti, 13 - 16 Haziran 2010, ss.343-344
- IX. **Glycerol Partial Oxidation in Aqueous Solution by Home Prepared TiO₂ Photocatalyst**
Palmisano L., Loddo V., Mele A., Palmisano G., YURDAKAL S., Augugliaro V.
6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6), Prague, Çek Cumhuriyeti, 13 - 16 Haziran 2010, ss.136-137

Desteklenen Projeler

Yurdakal S., Özcan L., Khamidov G., Çetinkaya S., Yükseköğretim Kurumları Destekli Proje, Nanotüp yapılı TiO₂ nanoparçacıklar ile gliserolün ve 3-piridinmetanolün seçici fotokatalitik yükseltgenmesi, 2020 - 2021
Yurdakal S., Özcan L., TÜBİTAK Projesi, Farklı Nanoyapılı TiO₂ Fotoanotlarla Seçici Fotoelektrokatalitik Gliserol Yükseltgenmesi, 2019 - 2021

Bilimsel Dergilerdeki Faaliyetler

ACS SUSTAINABLE CHEMISTRY AND ENGINEERING, Editörler Kurulu Üyesi, 2023 - Devam Ediyor
Editör, 2019 - Devam Ediyor
JOURNAL OF CHEMISTRY, Editörler Kurulu Üyesi, 2011 - Devam Ediyor

CATALYSIS TODAY, Özel Sayı Editörü, 2020 - 2021

CATALYSIS TODAY, Özel Sayı Editörü, 2016 - 2017

Bilimsel Hakemlikler

ARABIAN JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Temmuz 2023

PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES, SCI-E Kapsamındaki Dergi, Temmuz 2023

CHEMCATCHEM, SCI-E Kapsamındaki Dergi, Temmuz 2023

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI-E Kapsamındaki Dergi, Şubat 2023

PHYSICAL CHEMISTRY CHEMICAL PHYSICS, SCI-E Kapsamındaki Dergi, Şubat 2023

JOURNAL OF PHYSICAL CHEMISTRY C, SCI-E Kapsamındaki Dergi, Kasım 2022

CHEMICAL ENGINEERING JOURNAL, SCI-E Kapsamındaki Dergi, Haziran 2022

CHEMSUSCHEM, SCI-E Kapsamındaki Dergi, Haziran 2022

APPLIED SURFACE SCIENCE, SCI-E Kapsamındaki Dergi, Haziran 2022

ACS CATALYSIS, SCI-E Kapsamındaki Dergi, Kasım 2021

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI-E Kapsamındaki Dergi, Eylül 2021

INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH, SCI-E Kapsamındaki Dergi, Haziran 2021

APPLIED CATALYSIS B: ENVIRONMENTAL, SCI-E Kapsamındaki Dergi, Mayıs 2021

APPLIED CATALYSIS A: GENERAL, SCI-E Kapsamındaki Dergi, Nisan 2021

JOURNAL OF ENVIRONMENTAL chemical ENGINEERING, SCI-E Kapsamındaki Dergi, Ocak 2021

Hittite Journal of Science and Engineering, Hakemli Bilimsel Dergi, Ekim 2020

ANALYST, THE, SCI-E Kapsamındaki Dergi, Eylül 2020

INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH, SCI-E Kapsamındaki Dergi, Ağustos 2020

TOPICS IN CATALYSIS, SCI-E Kapsamındaki Dergi, Temmuz 2020

DESALINATION AND WATER TREATMENT, SCI-E Kapsamındaki Dergi, Temmuz 2020

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, SCI-E Kapsamındaki Dergi, Haziran 2020

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI-E Kapsamındaki Dergi, Nisan 2020

RSC ADVANCES, SCI-E Kapsamındaki Dergi, Nisan 2020

JOURNAL OF PHYSICAL CHEMISTRY C, SCI-E Kapsamındaki Dergi, Aralık 2019

CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Aralık 2019

RSC ADVANCES, SCI-E Kapsamındaki Dergi, Ekim 2019

CATALYSIS TODAY, SCI-E Kapsamındaki Dergi, Eylül 2019

INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH, SCI-E Kapsamındaki Dergi, Eylül 2019

ENERGY AND FUELS, SCI-E Kapsamındaki Dergi, Temmuz 2019

International Journal of Environmental Health Engineering, SCI-E Kapsamındaki Dergi, Nisan 2019

ACS CATALYSIS, SCI-E Kapsamındaki Dergi, Mart 2019

ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, SCI-E Kapsamındaki Dergi, Şubat 2019

CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Şubat 2019

CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Ocak 2019

CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Kasım 2018

TURKISH JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Ekim 2018

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, Hakemli Bilimsel Dergi, Ekim 2018

ORGANIC PROCESS RESEARCH & DEVELOPMENT, SCI-E Kapsamındaki Dergi, Ekim 2018

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, SCI-E Kapsamındaki Dergi, Ekim 2018

PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES, SCI-E Kapsamındaki Dergi, Nisan 2018

CATALYSIS TODAY, SCI-E Kapsamındaki Dergi, Şubat 2018

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, SCI-E Kapsamındaki Dergi,

Şubat 2018

JOURNAL OF PHYSICAL CHEMISTRY C, SCI-E Kapsamındaki Dergi, Şubat 2018

CATALYSIS TODAY, SCI-E Kapsamındaki Dergi, Aralık 2017

CATALYSIS TODAY, SCI-E Kapsamındaki Dergi, Aralık 2017
APPLIED CATALYSIS B: ENVIRONMENTAL, SCI-E Kapsamındaki Dergi, Ekim 2017
JOURNAL OF NANOMATERIALS, SCI-E Kapsamındaki Dergi, Eylül 2017
CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Eylül 2017
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, Hakemli Bilimsel Dergi, Haziran 2017
TURKISH JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Haziran 2017
JOURNAL OF HAZARDOUS MATERIALS, SCI-E Kapsamındaki Dergi, Şubat 2017
ARABIAN JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Ocak 2017
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, SCI-E Kapsamındaki Dergi, Ocak 2017
APPLIED CATALYSIS B: ENVIRONMENTAL, SCI-E Kapsamındaki Dergi, Aralık 2016
APPLIED CATALYSIS B: ENVIRONMENTAL, SCI-E Kapsamındaki Dergi, Aralık 2016
RESEARCH ON CHEMICAL INTERMEDIATES, SCI-E Kapsamındaki Dergi, Kasım 2016
CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Ekim 2016
CATALYSIS TODAY, SCI-E Kapsamındaki Dergi, Ağustos 2016
TURKISH JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Mart 2016
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Şubat 2016
ADVANCES IN PHYSICAL CHEMISTRY, Diğer İndekslerce Taranan Dergi, Eylül 2015
JOURNAL OF PHYSICAL CHEMISTRY C, SCI-E Kapsamındaki Dergi, Ağustos 2015
TURKISH JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Ağustos 2015
APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI-E Kapsamındaki Dergi, Ağustos 2015
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Nisan 2015
ENVIRONMENTAL SCIENCE: PROCESSES AND IMPACTS, SCI-E Kapsamındaki Dergi, Ocak 2015
ARABIAN JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Kasım 2014
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ocak 2014
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Aralık 2013
SYNTHESIS (Stuttgart), SCI-E Kapsamındaki Dergi, Eylül 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ağustos 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Temmuz 2013
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, SCI-E Kapsamındaki Dergi, Temmuz 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Mayıs 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Nisan 2013
CURRENT ORGANIC CHEMISTRY, SCI-E Kapsamındaki Dergi, Nisan 2013
CURRENT ORGANIC CHEMISTRY, SCI-E Kapsamındaki Dergi, Mart 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Şubat 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ocak 2013
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ocak 2013
TOPICS IN CATALYSIS, SCI-E Kapsamındaki Dergi, Ekim 2012
ADVANCES IN PHYSICAL CHEMISTRY, Diğer İndekslerce Taranan Dergi, Ekim 2012
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, SCI-E Kapsamındaki Dergi, Ekim 2012
ADVANCES IN PHYSICAL CHEMISTRY, Diğer İndekslerce Taranan Dergi, Ağustos 2012
REACTION KINETICS, MECHANISMS AND CATALYSIS, SCI-E Kapsamındaki Dergi, Ocak 2012
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Aralık 2011
WATER RESEARCH, SCI-E Kapsamındaki Dergi, Kasım 2011
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ağustos 2011
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, SCI-E Kapsamındaki Dergi, Haziran 2011
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Mart 2011
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Ocak 2011
CHEMCATCHEM, SCI-E Kapsamındaki Dergi, Aralık 2010
ACS APPLIED MATERIALS & INTERFACES, SCI-E Kapsamındaki Dergi, Aralık 2010
CHEMCATCHEM, SCI-E Kapsamındaki Dergi, Kasım 2010
CHEMCATCHEM, SCI-E Kapsamındaki Dergi, Ekim 2010

CHEMCATCHEM, SCI-E Kapsamındaki Dergi, Eylül 2010
CATALYSIS TODAY, SCI Kapsamındaki Dergi, Kasım 2008
CATALYSIS TODAY, SCI Kapsamındaki Dergi, Ekim 2008
CATALYSIS TODAY, SCI Kapsamındaki Dergi, Ekim 2008

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