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Education Information

Doctorate, Anadolu University, Chemistry, Turkey 2003 - 2010

Postgraduate, Anadolu University, Chemistry, Turkey 2000 - 2003

Undergraduate, Anadolu University, Science Faculty, Chemistry, Turkey 1996 - 2000

Research Areas

Metallurgical and Materials Engineering, Chemistry

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydrothermal synthesis of bare TiO₂ nanowires and polystyrene (PS)-TiO₂ nanowires used for selective photocatalytic oxidation of 3-pyridinemethanol in water and PS photodegradation in solid state**
Erol İ., Khamidov G., Efe E., YURDAKAL S., Palmisano L.
Research on Chemical Intermediates, vol.50, no.10, pp.4641-4671, 2024 (SCI-Expanded)
- II. **Partial Photoelectrocatalytic Oxidation of 3-Methylpyridine in Green Conditions by Nanotube/Nanowire Ti/TiO₂ Plates Prepared in Aqueous, Glycerol, or Ethylene Glycol Medium**
Çetinkaya S., Özcan L., Palmisano L., YURDAKAL S.
ChemCatChem, vol.16, no.18, 2024 (SCI-Expanded)
- III. **Selective photocatalytic and photoelectrocatalytic synthesis of valuable compounds in aqueous medium**
Bellardita M., Loddo V., Augugliaro V., Palmisano L., YURDAKAL S.
Catalysis Today, vol.432, 2024 (SCI-Expanded)
- IV. **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, vol.12, no.1, 2024 (SCI-Expanded)
- V. **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, vol.301, 2023 (SCI-Expanded)

- VI. **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, vol.59, no.38, pp.5741-5744, 2023 (SCI-Expanded)
- VII. **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, vol.29, no.7, 2022 (SCI-Expanded)
- VIII. **Selective Photocatalytic Oxidation of Glycerol and 3-Pyridinemethanol by Nanotube/Nanowire-Structured TiO₂ Powders Obtained by Breakdown Anodization**
Çetinkaya S., Khamidov G., Ozcan L., Palmisano L., Yurdakal S.
FRONTIERS IN CHEMISTRY, vol.10, 2022 (SCI-Expanded)
- IX. **Selective photoelectrocatalytic oxidation of glycerol by nanotube, nanobelt and nanosponge structured TiO₂ on Ti plates**
Çetinkaya S., Khamidov G., Oezcan L., Palmisano L., Yurdakal S.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.10, no.2, 2022 (SCI-Expanded)
- X. **Partial photocatalytic oxidations of 3-pyridinemethanol and 3-picoline by TiO₂ prepared in HCl, HNO₃ and H₂SO₄ at different temperatures**
Çetinkaya S., YURDAKAL S.
CATALYSIS TODAY, vol.380, pp.237-247, 2021 (SCI-Expanded)
- XI. **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, vol.380, pp.16-24, 2021 (SCI-Expanded)
- XII. **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, vol.380, pp.1-2, 2021 (SCI-Expanded)
- XIII. **Partial photoelectrocatalytic oxidation of 3-pyridinemethanol by Pt, Au and Pd loaded TiO₂ nanotubes on Ti plate**
YURDAKAL S., Çetinkaya S., Ozcan L., Gok O., Palmisano L.
CATALYSIS TODAY, vol.380, pp.248-258, 2021 (SCI-Expanded)
- XIV. **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, vol.9, no.4, 2021 (SCI-Expanded)
- XV. **Selective photocatalytic oxidation of 3-pyridinemethanol on platinized acid/base modified TiO₂**
YURDAKAL S., Çetinkaya S., Augugliaro V., Palmisano G., Sa J., Lewin E., Garlisi C.
CATALYSIS SCIENCE & TECHNOLOGY, vol.11, no.13, pp.4549-4559, 2021 (SCI-Expanded)
- XVI. **Alkaline treatment as a means to boost the activity of TiO(2) in selective photocatalytic processes**
YURDAKAL S., Çetinkaya S., Augugliaro V., Palmisano G., Soria J., Sanz J., Torralvo M. J., Livraghi S., Giamello E., Garlisi C.
CATALYSIS SCIENCE & TECHNOLOGY, vol.10, no.15, pp.5000-5012, 2020 (SCI-Expanded)
- XVII. **Photoelectrocatalytic oxidation of 3-pyridinemethanol to 3-pyridinemethanal and vitamin B-3 by TiO₂ nanotubes**
Yurdakal S., Çetinkaya S., Sarlak M. B., Ozcan L., Loddo V., Palmisano L.

- CATALYSIS SCIENCE & TECHNOLOGY, vol.10, no.1, pp.124-137, 2020 (SCI-Expanded)
- XVIII. 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, vol.61, no.2, pp.163-213, 2019 (SCI-Expanded)
- XIX. Photoelectrocatalytic Degradation of Paraquat by Pt Loaded TiO₂ Nanotubes on Ti Anodes**
Ozcan L., Mutlu T., YURDAKAL S.
MATERIALS, vol.11, no.9, 2018 (SCI-Expanded)
- XX. 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, vol.1, no.6, pp.2567-2578, 2018 (SCI-Expanded)
- XXI. 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, vol.221, pp.140-151, 2018 (SCI-Expanded)
- XXII. 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, vol.281, pp.53-59, 2017 (SCI-Expanded)
- XXIII. Heterogeneous photocatalysis from fundamentals to possible applications**
Palmisano L., Loddo V., YURDAKAL S.
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- XXIV. Anatase nanoparticles boundaries resulting from titanium tetrachloride hydrolysis**
Sanz J., Sobrados I., Soria J., YURDAKAL S., Augugliaro V.
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- XXV. 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, vol.202, pp.500-508, 2017 (SCI-Expanded)
- XXVI. 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, vol.281, pp.205-213, 2017 (SCI-Expanded)
- XXVII. 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.
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- XXVIII. 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, vol.328, pp.122-128, 2016 (SCI-Expanded)
- XXIX. 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, vol.32, no.8, pp.881-886, 2016 (SCI-Expanded)
- XXX. 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, vol.6, no.10, pp.1968-1981, 2015 (SCI-Expanded)
- XXXI. 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, vol.7, no.11, pp.2306-2319, 2015 (SCI-Expanded)
- XXXII. **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, vol.403, pp.37-42, 2015 (SCI-Expanded)
- XXXIII. **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, vol.144, no.3, pp.498-504, 2014 (SCI-Expanded)
- XXXIV. **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, vol.309, pp.97-104, 2014 (SCI-Expanded)
- XXXV. **Synthesis, characterization, thermal and optical properties of styrene derivatives having pendant p-substituted benzylic ether groups**
Erol I., Ozcan L., YURDAKAL S.
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- XXXVI. **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.
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- XXXVII. **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.
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- XXXVIII. **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.
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- XXXIX. **Partial oxidation of aromatic alcohols via TiO₂ photocatalysis: the influence of substituent groups on the activity and selectivity**
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- XL. **Overview on oxidation mechanisms of organic compounds by TiO₂ in heterogeneous photocatalysis**
Augugliaro V., Bellardita M., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
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- XLI. **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.
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- XLII. **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.
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- XLIII. **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, vol.4, no.10, pp.1431-1438, 2011 (SCI-Expanded)
- XLIV. **Photocatalytic process intensification by coupling with pervaporation**
Camera-Roda G., Santarelli F., Augugliaro V., Loddo V., Palmisano G., Palmisano L., YURDAKAL S.
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- XLV. **Advances in selective conversions by heterogeneous photocatalysis**
Palmisano G., Garcia-Lopez E., Marci G., Loddo V., YURDAKAL S., Augugliaro V., Palmisano L.
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- XLVI. **Kinetics of 4-Methoxybenzyl Alcohol Oxidation in Aqueous Solution in a Fixed Bed Photocatalytic Reactor**
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- XLVII. **Partial photocatalytic oxidation of glycerol in TiO₂ water suspensions**
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- XLVIII. **Graphite-supported TiO₂ for 4-nitrophenol degradation in a photoelectrocatalytic reactor**
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- XLIX. **Determination of Photoadsorption Capacity of Polychrystalline TiO₂ Catalyst in Irradiated Slurry**
Augugliaro V., YURDAKAL S., Loddo V., Palmisano G., Palmisano L.
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- LI. **Selective photocatalytic oxidation of 4-substituted aromatic alcohols in water with rutile TiO₂ prepared at room temperature**
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- LII. **Self-assembled titania-silica-sepiolite based nanocomposites for water decontamination**
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- LIII. **Home-prepared anatase, rutile, and brookite TiO₂ for selective photocatalytic oxidation of 4-methoxybenzyl alcohol in water: reactivity and ATR-FTIR study**
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- LIV. **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.
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- LV. **Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home prepared titanium dioxide 2. Intrinsic and surface features of catalysts**
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- LVI. **Photocatalytic oxidation of aromatic alcohols to aldehydes in aqueous suspension of home-prepared titanium dioxide 1. Selectivity enhancement by aliphatic alcohols**
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- LVII. **Oxidation of aromatic alcohols in irradiated aqueous suspensions of commercial and home-prepared ruffle TiO₂: A selectivity study**
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- LVIII. **TiO₂/ORMOSIL thin films doped with phthalocyanine dyes: New photocatalytic devices activated by**

solar light

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- LIX. **Nanostructured rutile TiO₂ for selective photocatalytic oxidation of aromatic alcohols to aldehydes in water**
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- LX. **Photocatalytic Degradation of 4-Nitrophenol in a Continuous Reactor Containing Titanium Dioxide Supported on Glass Beads**
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- LXII. **Optical properties of TiO₂ suspensions: Influence of pH and powder concentration on mean particle size**
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- LXIII. **Photocatalytic oxidation of nitrobenzene and phenylamine: Pathways and kinetics**
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- LXIV. **Photocatalytic selective oxidation of 4-methoxybenzyl alcohol to aldehyde in aqueous suspension of home-prepared titanium dioxide catalyst**
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- LXV. **Selective photocatalytic oxidation of 4-methoxybenzyl alcohol to p-anisaldehyde in organic-free water in a continuous annular fixed bed reactor**
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Books & Book Chapters

- I. **Selective photoelectrocatalytic transformations of organic compounds**
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- II. **Future perspectives**
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- III. **Synthesis, deposition and characterization of titanium dioxide and titanium dioxide based materials**
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- IV. **Economical aspects, toxicity, and environmental fate of cerium oxide**
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in: Cerium Oxide (CeO₂): Synthesis, Properties and Applications, Salvatore Scirè and Leonardo Palmisano, Editor, Elsevier, pp.359-373, 2020
- V. **Adsorption Isotherms and BET, SEM, FTIR, UV-Vis, Photoluminescence, and Electrochemical Characterizations**

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in: Heterogeneous Photocatalysis: Relationships with Heterogeneous Catalysis and Perspectives, Giuseppe Marci, Leonardo Palmisano, Editor, Elsevier, Amsterdam, pp.87-152, 2019

VI. Preparation of catalysts and photocatalysts used for similar processes

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Refereed Congress / Symposium Publications in Proceedings

- I. **Asit, baz muamelesi ve Pt katkısı ile etkinliği artırılmış 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, Turkey, 10 - 14 September 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, Turkey, 15 - 18 May 2017
- III. **Nanotüp Yapılı TiO₂ Fotoanotlar Kullanılarak Parakuatin Fotoelektrokatalitik Bozundurulması**
ÖZCAN L., Mutlu T., YURDAKAL S.
6. Fiziksel Kimya Kongresi, Turkey, 15 - 18 May 2017
- IV. **Laboratuvar Sentezi Azot Katkılı Anataz Rutil bifazik TiO₂ Fotokatalizörler ile p Anisaldehytin Çevre dostu Koşullarda Sentezi**
YURDAKAL S., Tek B. S., ÖZCAN L., Augugliaro V., Loddo V., Palmisano G.
5. Fiziksel Kimya Kongresi, Turkey, 16 - 19 May 2015
- V. **Heterogeneous photocatalysis a promising tool for green organic syntheses**
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