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Education Information

Doctorate, Selcuk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2010 - 2014

Postgraduate, Selcuk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2007 - 2010

Undergraduate, Kütahya Dumlupınar University, Mühendislik Fakültesi, Seramik Mühendisliği, Turkey 2003 - 2007

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2024 - Continues

Professor, Karamanoglu Mehmetbey University, 2023 - 2024

Associate Professor, Karamanoglu Mehmetbey University, 2018 - 2023

Assistant Professor, Karamanoglu Mehmetbey University, 2014 - 2018

Research Assistant, Selcuk University, 2011 - 2014

Academic and Administrative Experience

Director of the Center, Karamanoglu Mehmetbey University, 2018 - 2021

Advising Theses

Özel F., Refrakter metal temelli üçlü $Cu_2Mo_6Se_8$ ve $Fe_2Mo_6Se_8$ kalkojenitlerin sentezlenmesi ve sentez parametrelerinin incelenmesi, Postgraduate, A.FEYZA(Student), 2023

Özel F., $AgSbS_2$ nanokristallerinin koloidal yöntemle sentezlenmesi ve fotoelektriksel özelliklerinin incelenmesi, Postgraduate, M.ASLAN(Student), 2023

Özel F., Saf ve iyonik sıvı katkılı perovskite filmlerin slot-die (yarık-kalıp) kaplama tekniği ile üretimi, Doctorate, M.EBİÇ(Student), 2022

Özel F., Akyıldız H., Atomik olarak dizayn edilmiş farklı kompozisyonlardaki nano-çubuksu maddelerin sentezlenmesi ve fotoelektrik özelliklerinin incelenmesi, Doctorate, A.SARILMAZ(Student), 2021

Özel F., Ag₂XSnS₄ (AXTS; X=Zn, Mn, Ni, Co) nano yapıların sentez parametrelerinin şekil ve kristalleşme üzerine etkilerinin incelenmesi, Postgraduate, S.SÜLEYMAN(Student), 2020

Özel F., Ag₂S:X (X: Ni, Co, Zn ve Mn) nanokristallerin sıcak besleme yöntemi ile sentezi ve fotoelektriksel özelliklerinin incelenmesi, Postgraduate, G.KARANFİL(Student), 2019

Özel F., Yeşil, kırmızı ve mavi renkli floresans protein katkılı nanofiberlerin üretimi ve karakterizasyonu, Postgraduate, A.ÖZEN(Student), 2019

Özel F., Kılıç H. Ş., Beşli yapıdaki CZTSeS nanofiberlerinselenyum/sülfür kompozisyonunabağlı olarak üretilmesi, Postgraduate, D.TAHA(Student), 2018

Özel F., Yeni nesil Cu₂MnSnSe₄-xSx (M = Co²⁺, Fe²⁺, Zn²⁺) nano alaşımlarının koloidal yöntemle sentezi ve boya duyarlı güneş hücresi uygulamaları, Postgraduate, A.SARILMAZ(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Rational design of ZnO/SrTiO₃ S-scheme heterojunction for photo-enhanced piezocatalytic hydrogen production**
Kuru T., Sarılmaz A., Aslan E., ÖZEL F., Hatay Patir I.
Applied Surface Science, vol.682, 2025 (SCI-Expanded)
- II. **Dielectric size optimization for high power density in large-scale triboelectric nanogenerators**
Karabiber A., Dirik Ö., Koc F., Ozel F.
Nano Research, vol.17, no.9, pp.8455-8464, 2024 (SCI-Expanded)
- III. **CeO₂:BaMoO₄ nanocomposite based 3D-printed electrodes for electrochemical detection of the dopamine**
Hussaini A. A., Sarılmaz A., Ozel F., Erdal M. O., Yıldırım M.
Materials Science in Semiconductor Processing, vol.180, 2024 (SCI-Expanded)
- IV. **Structural and optical properties of Cu₂ZnSnSe₄ nanocrystals thin film**
Kişnişçi Z., Özel F., Tuğluoğlu N., Yüksel Ö. F.
Optical and Quantum Electronics, vol.56, no.7, 2024 (SCI-Expanded)
- V. **Establishing the NiMo₆Se₈ Chevrel Phase as a Promising Material Using DFT**
Sürücü G., Surucu O., Usanmaz D., Özel F., Gencer A.
Advanced Theory and Simulations, vol.7, no.7, 2024 (SCI-Expanded)
- VI. **A new Bluetooth-assisted sensor based on lab-made screen-printed electrode modified with Ni-Ag₂S for electrochemical detection of triclosan**
Cetiner R., Sarılmaz A., Ozel F., Bas S. Z., Ozmen M.
Electrochimica Acta, vol.489, 2024 (SCI-Expanded)
- VII. **Electrical properties of Al/CZTSe nanocrystal Schottky diode**
Kişnişçi Z., Özel F., Karadeniz S., Tuğluoğlu N., Özel S., Yüksel Ö.
Journal of Materials Science: Materials in Electronics, vol.35, no.11, 2024 (SCI-Expanded)
- VIII. **Boron Minerals with Different Crystal Structures as Performance Manipulators in Triboelectric Nanogenerators**
Topçu M. A., Karabiber A., Koç F., Sarılmaz A., Özel F.
Energy Technology, vol.12, no.4, 2024 (SCI-Expanded)
- IX. **Biotemplated silicon carbide-loaded ytterbium oxide: Effective catalyst for photocatalytic hydrogen evolution reactions**
Genc M. T., Sarılmaz A., Aslan E., Ozel F., Patir I. H.
Molecular Catalysis, vol.556, 2024 (SCI-Expanded)
- X. **Transition Metal Dichalcogenides as Effective Dopants in Nanofiber-Based Triboelectric Nanogenerators**
Karabiber A., Dirik Ö., Okbaz A., Yar A., Özen A., Özel F.
International Journal of Energy Research, vol.2024, 2024 (SCI-Expanded)
- XI. **Quaternary nanorods: promising versatile agents for cancer therapy, antimicrobial strategies and**

free radical neutralization

Ulusu F., Sarilmaz A., Ulus Y., Ozel F.

Particulate Science and Technology, vol.42, no.6, pp.944-952, 2024 (SCI-Expanded)

- XII. **Photo-enhanced piezocatalytic hydrogen evolution using in situ silver piezodeposited scheelite-type BaMoO₄ and BaWO₄**
Kuru T., Sarilmaz A., Aslan E., Ozel F., Hatay Patir I.
Journal of Materials Chemistry A, vol.12, no.3, pp.1764-1771, 2023 (SCI-Expanded)
- XIII. **Investigation of Tungsten-Based Seleno-Chevrel Compounds with Different Compositions for Efficient Water Splitting**
Dag T. S., Sürücü G., Gencer A., Surucu O., Ozel F., Çiftci Y.
Advanced Theory and Simulations, vol.6, no.11, 2023 (SCI-Expanded)
- XIV. **Thermally-exfoliated graphene Oxide/ZnO nanocomposite catalysts for photocatalytic hydrogen evolution and antibacterial activities**
Tuna Genç M., Sarilmaz A., Dogan S., Aksoy Çekceoğlu İ., Özen A., Aslan E., Saner Okan B., Jaafar J., Ozel F., Ersoz M., et al.
International Journal of Hydrogen Energy, vol.48, no.78, pp.30407-30419, 2023 (SCI-Expanded)
- XV. **Triboelectric Nanogenerator with Nanofiber Dielectric Layer Enriched through Novel Zinc Phthalocyanine Carrying Four O-Carboranyl Units**
Özen A., Karabiber A., Sener S., İpek O., Ozel F.
Physica Status Solidi (A) Applications and Materials Science, vol.220, no.18, 2023 (SCI-Expanded)
- XVI. **One Material-Opposite Triboelectrification: Molecular Engineering Regulated Triboelectrification on Silica Surface to Enhance TENG Efficiency**
Arkan M. Z., Kinas Z., Yalçın E., Arkan E., Özel F., Karabiber A., Chorążewski M.
Molecules, vol.28, no.15, 2023 (SCI-Expanded)
- XVII. **Photoantimicrobial and photocatalytic hydrogen evolution activities of seleno-Chevrel phases**
Kuru T., Sarilmaz A., Aksoy Çekceoglu I., Aslan E., Gencer A., Sürücü G., Ozel F., Hatay Patir I.
Journal of Environmental Chemical Engineering, vol.11, no.3, 2023 (SCI-Expanded)
- XVIII. **Performance-enhanced of triboelectric nanogenerator based on functionalized silicone with pumice for energy harvesting**
Topçu M. A., Karabiber A., Sarilmaz A., Koç F., Özel F.
Sustainable Energy Technologies and Assessments, vol.57, 2023 (SCI-Expanded)
- XIX. **Nano-ceria based TENGs: Effect of dopant structure on energy harvesting performance**
Arkan E., Karabiber A., Topçu M. A., Kinas Z., Sarilmaz A., Ozel S. S., Ozel F.
Surfaces and Interfaces, vol.37, 2023 (SCI-Expanded)
- XX. **A new sensing platform based on a ternary nanocomposite of graphitic carbon nitride-silver sulfide-nickel molybdate for quercetin determination**
Valiyeva K., Bas S. Z., Atacan K., Sarilmaz A., Ozel F., Ozmen M.
Analyst, vol.148, no.9, pp.2159-2169, 2023 (SCI-Expanded)
- XXI. **Photodeposition of molybdenum sulfide on MTiO₃ (M: Ba, Sr) perovskites for photocatalytic hydrogen evolution**
Kuru T., Yanalak G., Sarilmaz A., Aslan E., Keles A., Tuna Genc M., Ozel F., Hatay Patir I., Kus M., Ersoz M.
Journal of Photochemistry and Photobiology A: Chemistry, vol.436, 2023 (SCI-Expanded)
- XXII. **Enhanced Photocatalytic Hydrogen Evolution and Antibacterial Activities of Ternary Chevrel Phases**
Genc Acar E., Kuru T., Sarilmaz A., Aksoy Çekceoğlu İ., Yanalak G., Aslan E., Süleyman Özel S., Karanfil Kaçmaz G., Özel F., Hatay Patir I.
ChemCatChem, vol.15, no.4, 2023 (SCI-Expanded)
- XXIII. **ENERGY ANALYSIS OF SiC-Si₃N₄ @ POE AND SiC-Si₃N₄ @ R134a BASED COOLING SYSTEMS**
Akkaya M., Sarilmaz A., Menlik T., Ozel F.
Heat Transfer Research, vol.54, no.2, pp.25-37, 2023 (SCI-Expanded)
- XXIV. **Fast and effective removal of Pb(II), Cu(II) and Ni(II) ions from aqueous solutions with TiO₂ nanofibers: Synthesis, adsorption-desorption process and kinetic studies**

- Karapinar H. S., Kilicel F., Ozel F., Sarilmaz A.
International Journal of Environmental Analytical Chemistry, vol.103, no.16, pp.4731-4751, 2023 (SCI-Expanded)
- XXV. **The electrical response of the Au/Mn₂Mo₆S₈/p-Si diode under different physical stimuli**
Bilal Taşyürek L., Sarilmaz A., Ruşen A., Yiğit E., Özel F., Orak İ.
Materials Science and Engineering: B, vol.287, 2023 (SCI-Expanded)
- XXVI. **Numerical and experimental analysis of refrigerating performance for hybrid nanolubricants with sepiolite additives**
Akkaya M., Sarilmaz A., Balci S., Ozel F.
Thermal Science and Engineering Progress, vol.37, 2023 (SCI-Expanded)
- XXVII. **Molecular engineering-device efficiency relation: Performance boosting of triboelectric nanogenerator through doping of small molecules**
Yiğit Arkan M. Z., Kinas Z., Arkan E., Gökçe C. O., Kara K., Karabiber A., Kuş M., Özel F.
International Journal of Energy Research, vol.46, no.15, pp.23517-23529, 2022 (SCI-Expanded)
- XXVIII. **Refractory-Metal-Based Chalcogenides for Energy**
Özel F., Arkan E., Coskun H., Devci İ., Yıldırım M., Yıldırım M., Orak İ., Erdal M. O., Sarilmaz A., Ersöz T. T., et al.
Advanced Functional Materials, vol.32, no.47, 2022 (SCI-Expanded)
- XXIX. **Production of barite-doped yarns and testing their usability for ionizing and electromagnetic radiation shielding**
Akman F., Ozkan I., Ozel F., Aydemir H., Kaçal M., Agar O.
Radiation Physics and Chemistry, vol.201, 2022 (SCI-Expanded)
- XXX. **Scheelite-type BaMoO₄ and BaWO₄ based dye sensitized photocatalytic hydrogen evolution by water splitting**
Yanalak G., Özen A., Sarilmaz A., Keles A., Aslan E., Ozel F., Hatay Patir I.
Journal of Physics and Chemistry of Solids, vol.168, 2022 (SCI-Expanded)
- XXXI. **The diode and photodiode performances of BaZrO₃ perovskite-based device under the influence of thermal and light external stimuli**
Orak İ., Karabulut A., Yiğit E., Sevgili Ö., Ruşen A., Ozel F.
Sensors and Actuators A: Physical, vol.337, 2022 (SCI-Expanded)
- XXXII. **Copper-based thiospinel quantum dots as potential candidates for nonlinear optical applications**
Gundogdu Y., Sarilmaz A., Gencer A., Ozel F., Sürücü G., Kilic H. S., Ersoz M.
Optics and Laser Technology, vol.148, 2022 (SCI-Expanded)
- XXXIII. **High-Power Triboelectric Nanogenerator Based on Enriched Polyvinylpyrrolidone Nanofibers for Energy Harvesting**
Özen A., Karabiber A., Kinas Z., Ozel F.
Physica Status Solidi (A) Applications and Materials Science, vol.219, no.8, 2022 (SCI-Expanded)
- XXXIV. **The surface and electrical properties of the Al/Ba₂P₂O₇/p-Si heterojunctions in wide range of temperature and frequency**
Sevgili Ö., Özel F., Ruşen A., Yiğit E., Orak İ.
Surfaces and Interfaces, vol.28, 2022 (SCI-Expanded)
- XXXV. **Exploration of carbon additives to the synthesis of Cu₂Mo₆S₈ structures and their electrocatalytic activity in oxygen reduction reaction**
Karanfil G., Coskun H., Karakis M., Sarilmaz A., Gencer A., Sürücü G., Aljabour A., Ozel F.
International Journal of Hydrogen Energy, vol.47, no.8, pp.5326-5336, 2022 (SCI-Expanded)
- XXXVI. **High-performance triboelectric nanogenerator based on carbon nanomaterials functionalized polyacrylonitrile nanofibers**
Kinas Z., Karabiber A., Yar A., Özen A., Ozel F., Ersöz M., Okbaz A.
Energy, vol.239, 2022 (SCI-Expanded)
- XXXVII. **High-performance triboelectric nanogenerator with optimized Al or Ti-embedded silicone tribomaterial**
Okbaz A., Karabiber A., Yar A., Kinas Z., Sarilmaz A., Ozel F.
Energy Conversion and Management, vol.252, 2022 (SCI-Expanded)

- XXXVIII. **Structural, optical and dispersion studies on Cu₂NiSn(SSe)₄ nanocrystals thin films**
Yüksel Ö. F., Özel F., Akin Ü., Tuğluoğlu N.
Physica B: Condensed Matter, vol.625, 2022 (SCI-Expanded)
- XXXIX. **A facile synthesis of Ag₂MnSnS₄ nanorods through colloidal method**
Özel S. S., Akay S., Özel F.
Turkish Journal of Chemistry, vol.46, no.4, pp.1291-1296, 2022 (SCI-Expanded)
- XL. **Quinary Nanocrystal-Based Passivation Strategy for High Efficiency and Stable Perovskite Photovoltaics**
Ozturk T., Sarilmaz A., Akin S., Dursun H., Ozel F., Akman E.
Solar RRL, vol.6, no.1, 2022 (SCI-Expanded)
- XLI. **Electrochemical Detection of Epinephrine Based on a Screen-printed Electrode Modified with NiO–ERGO Nanocomposite Film**
Gunes O., Sarilmaz A., Bas S. Z., Ozmen M., Ozel F., Ersoz M.
Electroanalysis, vol.33, no.12, pp.2460-2468, 2021 (SCI-Expanded)
- XLII. **Enhanced performance of triboelectric nanogenerator based on polyamide-silver antimony sulfide nanofibers for energy harvesting**
Yar A., Kinas Z., Karabiber A., Ozen A., Okbaz A., Ozel F.
Renewable Energy, vol.179, pp.1781-1792, 2021 (SCI-Expanded)
- XLIII. **A new penternary semiconductor Cu₂CoSn(SSe)₄ nanocrystal: a study on structural, dielectric and optical properties**
Akin Ü., Özel F., Sarilmaz A., Yüksel Ö., Tuğluoğlu N.
Journal of Materials Science: Materials in Electronics, vol.32, no.22, pp.26641-26654, 2021 (SCI-Expanded)
- XLIV. **Production of microstructured BaZrO₃ and Ba₂P₂O₇-based polymer shields for protection against ionizing photons**
Ozel F., Akman F., Kaçal M. R., Özen A., Arslan H., Polat H., Yurtcan S., Agar O.
Journal of Physics and Chemistry of Solids, vol.158, 2021 (SCI-Expanded)
- XLV. **Spring assisted triboelectric nanogenerator based on sepiolite doped polyacrylonitrile nanofibers**
Özen A., Ozel F., Kinas Z., Karabiber A., Polat S.
Sustainable Energy Technologies and Assessments, vol.47, 2021 (SCI-Expanded)
- XLVI. **A general review on the thiospinels and their energy applications**
Ozel F., Kılıc H., Coskun H., Deveci I., Sarilmaz A., Balıkcıoğlu A., Gundogdu Y., Aljabour A., Özen A., Gezgin S., et al.
Materials Today Energy, vol.21, 2021 (SCI-Expanded)
- XLVII. **Photodiode behaviors of the AgSbS₂ nanocrystals in a Schottky structure**
Koçyiğit A., Erdal M. O., Ozel F., Yıldırım M.
Nanotechnology, vol.32, no.38, 2021 (SCI-Expanded)
- XLVIII. **Carbon nanotube supported thiospinel quantum dots as counter electrodes for dye sensitized solar cells**
Sarilmaz A., Özen A., Akyıldız H., Siyahjani Gultekin S., Kus M., Ozel F.
Solar Energy, vol.221, pp.243-253, 2021 (SCI-Expanded)
- XLIX. **Shape-controlled synthesis of copper based multinary sulfide catalysts for enhanced photocatalytic hydrogen evolution**
Sarilmaz A., Yanalak G., Aslan E., Ozel F., Patir I. H., Ersoz M.
Renewable Energy, vol.164, pp.254-259, 2021 (SCI-Expanded)
- L. **A Au/CuNiCoS₄/p-Si photodiode: electrical and morphological characterization**
Koçyiğit A., Sarilmaz A., Öztürk T., Ozel F., Yıldırım M.
Beilstein Journal of Nanotechnology, vol.12, pp.984-994, 2021 (SCI-Expanded)
- LI. **Rhenium/rhenium oxide nanoparticles production using femtosecond pulsed laser ablation in liquid**
Kepceoglu A., Gundogdu Y., Sarilmaz A., Ersöz M., Özel F., Kiliç H. S.
Turkish Journal of Chemistry, vol.45, no.2, pp.485-492, 2021 (SCI-Expanded)
- LII. **The dielectric performance of Au/CuCo₅S₈/p-Si heterojunction for various frequencies**
Koçyiğit A., Yıldız D., Sarilmaz A., Ozel F., Yıldırım M.

Journal of Materials Science: Materials in Electronics, vol.31, no.24, pp.22408-22416, 2020 (SCI-Expanded)

- LIII. **Transition metal–incorporated tungsten-based ternary refractory metal selenides (MWSe_x; M = Fe, Co, Ni, and Mn) as hydrogen evolution catalysts at soft interfaces**
Aslan E., Sarilmaz A., Yanalak G., Ozel S., Ozel F., Patir I.
Materials Today Energy, vol.18, 2020 (SCI-Expanded)
- LIV. **Flexible nanofiber based triboelectric nanogenerators with high power conversion**
Yar A., Karabiber A., Ozen A., Ozel F., Coşkun Ş.
Renewable Energy, vol.162, pp.1428-1437, 2020 (SCI-Expanded)
- LV. **Photocatalytic hydrogen evolution via solar-driven Water splitting by CuSbS₂ with different shapes**
Sarilmaz A., Genc E., Aslan E., Ozen A., Yanalak G., Ozel F., Patir I. H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.400, 2020 (SCI-Expanded)
- LVI. **Dye-sensitized photocatalytic hydrogen evolution by using copper-based ternary refractory metal chalcogenides**
Genc E., Coskun H., Yanalak G., Aslan E., Ozel F., Patir I. H.
International Journal of Hydrogen Energy, vol.45, no.32, pp.15915-15923, 2020 (SCI-Expanded)
- LVII. **Ternary and quaternary thiospinel nanocrystals with adjustable compositions: effects of Band-Gaps and nanostructures on Visible-Light-Driven photocatalytic H₂ evolution**
Sarilmaz A., Yanalak G., Aslan E., Akyildiz H., Patir I., Ozel F.
Materials Today Energy, vol.16, 2020 (SCI-Expanded)
- LVIII. **Photocatalytic hydrogen evolution reaction activity comparable to 1-D nanofiber materials exhibited by the kesterite nanorods catalysts**
Yanalak G., Sarilmaz A., Aslan E., Ozel F., Patir I. H.
Renewable Energy, vol.150, pp.469-475, 2020 (SCI-Expanded)
- LIX. **Enhanced photocatalytic hydrogen evolution from band-gap tunable Ag₂S:X (X = Ni, Co, Zn, Mn) nanocrystals: Effect of transition metal ions**
Yanalak G., Sarilmaz A., Karanfil G., Aslan E., Ozel F., Hatay Patir I.
Journal of Photochemistry and Photobiology A: Chemistry, vol.394, 2020 (SCI-Expanded)
- LX. **The effects of temperature and frequency changes on the electrical characteristics of hot-injected Cu₂MnSnS₄ chalcogenide-based heterojunction**
Sarilmaz A., Ozel F., Karabulut A., Orak İ., Şahinkaya M. A.
Physica B: Condensed Matter, vol.580, 2020 (SCI-Expanded)
- LXI. **Synthesis of novel tetrazine based D-π-A organic dyes for photoelectrochemical and photocatalytic hydrogen evolution**
Aslan E., Karaman M., Yanalak G., Bilgili H., Can M., Ozel F., Patir I. H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.390, 2020 (SCI-Expanded)
- LXII. **Ternary CuCo₂S₄ Thiospinel Nanocrystal-Coated Photodiode with Improved Photoresponsivity and Acceptance Angles for Optoelectronic Applications**
Yıldırım M., Koçyiğit A., Sarilmaz A., Ozel S. S., Kus M., Ozel F.
Journal of Electronic Materials, vol.49, no.2, pp.949-958, 2020 (SCI-Expanded)
- LXIII. **Dark and illuminated electrical characteristics of Si-based photodiode interlayered with CuCo₅S₈ nanocrystals**
Yildiz D., Gullu H., Sarilmaz A., Ozel F., Koçyiğit A., Yildirim M.
Journal of Materials Science: Materials in Electronics, vol.31, no.2, pp.935-948, 2020 (SCI-Expanded)
- LXIV. **A novel device fabricated with Cu₂NiSnS₄chalcogenide: Morphological and temperature-dependent electrical characterizations**
Karabulut A., Sarilmaz A., Ozel F., Orak İ., Şahinkaya M. A.
Current Applied Physics, vol.20, no.1, pp.58-64, 2020 (SCI-Expanded)
- LXV. **Facile preparation of amorphous NiWSe_x and CoWSe_x nanoparticles for the electrocatalytic hydrogen evolution reaction in alkaline condition**
Aslan E., Sarilmaz A., Yanalak G., Chang C. S., Cinar I., Ozel F., Patir I. H.
Journal of Electroanalytical Chemistry, vol.856, 2020 (SCI-Expanded)

- LXVI. **The investigation of novel D- π -A type dyes (MK-3 and MK-4) for visible light driven photochemical hydrogen evolution**
Aslan E., Karaman M., Yanalak G., Can M., Ozel F., Patir I. H.
Dyes and Pigments, vol.171, 2019 (SCI-Expanded)
- LXVII. **1D Amorphous Tungsten-Based Ternary Refractory Metal Sulfides for Catalytic Hydrogen Evolution at Soft Interfaces**
Aslan E., Sarilmaz A., Ozel F., Hatay Patir I., Girault H. H.
ChemNanoMat, vol.5, no.12, pp.1461-1466, 2019 (SCI-Expanded)
- LXVIII. **The C-V characteristics of the Cu₂WSe₄/p-Si heterojunction depending on wide range temperature**
Koçyiğit A., Küçükçelebi H., Sarilmaz A., Ozel F., Yıldırım M.
Journal of Materials Science: Materials in Electronics, vol.30, no.13, pp.11994-12000, 2019 (SCI-Expanded)
- LXIX. **The Au/Cu₂WSe₄/p-Si photodiode: Electrical and morphological characterization**
Koçyiğit A., Yıldırım M., Sarilmaz A., Ozel F.
Journal of Alloys and Compounds, vol.780, pp.186-192, 2019 (SCI-Expanded)
- LXX. **Synthesis of band-gap tunable earth-abundant CXTS (X= Mn⁺², Co⁺², Ni⁺² and Zn⁺²) nanorods: Toward a generalized synthesis strategy of quaternary chalcogenides**
Sarilmaz A., Ozel F.
Journal of Alloys and Compounds, vol.780, pp.518-522, 2019 (SCI-Expanded)
- LXXI. **Photo-electrochemical properties of p-type AgCoO₂ prepared by low temperature method**
Saib F., Özel F., Sarilmaz A., Mahroua O., Bellal B., Trari M.
Materials Science in Semiconductor Processing, vol.91, pp.174-180, 2019 (SCI-Expanded)
- LXXII. **The effect of the triangular and spherical shaped CuSbS₂ structure on the electrical properties of Au/CuSbS₂/p-Si photodiode**
Yıldırım M., Koçyiğit A., Sarilmaz A., Ozel F.
Journal of Materials Science: Materials in Electronics, vol.30, no.1, pp.332-339, 2019 (SCI-Expanded)
- LXXIII. **Donor- Π -acceptor dye-sensitized photoelectrochemical and photocatalytic hydrogen evolution by using Cu₂WS₄ co-catalyst**
Patir I. H., Aslan E., Yanalak G., Karaman M., Sarilmaz A., Can M., Can M., Ozel F.
International Journal of Hydrogen Energy, vol.44, no.3, pp.1441-1450, 2019 (SCI-Expanded)
- LXXIV. **NiO and Co₃O₄ nanofiber catalysts for the hydrogen evolution reaction at liquid/liquid interfaces**
Yanalak G., Aljabour A., Aslan E., Ozel F., Patir I. H., Kus M., Ersoz M.
Electrochimica Acta, vol.291, pp.311-318, 2018 (SCI-Expanded)
- LXXV. **A systematic comparative study of the efficient co-catalyst-free photocatalytic hydrogen evolution by transition metal oxide nanofibers**
Yanalak G., Aljabour A., Aslan E., Ozel F., Patir I. H.
International Journal of Hydrogen Energy, vol.43, no.36, pp.17185-17194, 2018 (SCI-Expanded)
- LXXVI. **Enhanced Device Efficiency and Long-Term Stability via Boronic Acid-Based Self-Assembled Monolayer Modification of Indium Tin Oxide in a Planar Perovskite Solar Cell**
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