



PROF. FERHAT ASLAN

Kişisel Bilgiler

Eposta: ferhataslan@harran.edu.tr

Birimi : Katıhal Fiziği

Dahili : 3579

Makaleler (YOKSIS)

- 1 A new approach to growth of chemically depositable different ZnS nanostructures**
GÖKTAŞ ABDULLAH,TUMBUL AHMET,ASLAN FERHAT
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY,<http://link.springer.com/10.1007/s10971-019-04990-9>
- 2 All solution processed superstrate type Cu₂ZnSnS₄ (CZTS) thin film solar cell: Effect of absorber layer thickness**
TUMBUL AHMET,ASLAN FERHAT,GÖKTAŞ ABDULLAH,MUTLU İBRAHİM HALİL
JOURNAL OF ALLOYS AND COMPOUNDS,<https://linkinghub.elsevier.com/retrieve/pii/S0925838818345596>
- 3 Annealing effect on the characteristics of La_{0.67}Sr_{0.33}MnO₃ polycrystalline thin films produced by the sol gel dip coating process**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,MUTLU İBRAHİM HALİL
Journal of Materials Science: Materials in Electronics,<http://link.springer.com/10.1007/s10854-011-0448-0>
- 4 Chemically derived quinary Cu₂Co_{1-x}NaxSnS₄ photon absorber material and its photocatalytic application**
TUMBUL AHMET,Aslan Esra,GÖKTAŞ ABDULLAH,MUTLU İBRAHİM HALİL,ARSLAN FERİT,ASLAN FERHAT
Applied Physics A,<https://doi.org/10.1007/s00339-024-07374-1>
- 5 Effect of preparation technique on the selected characteristics of Zn_{1-x}CoxO nanocrystalline thin films deposited by sol gel and magnetron sputtering**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,MUTLU İBRAHİM HALİL
Journal of Alloys and Compounds,<http://linkinghub.elsevier.com/retrieve/pii/S0925838814015163>
- 6 Effects of Cu In ratio and annealing temperature on physical properties of dip coated CuInS₂ thin films**
ASLAN FERHAT,MZ Zarbali,Yesilata B,MUTLU İBRAHİM HALİL
Materials Science in Semiconductor Processing,<http://linkinghub.elsevier.com/retrieve/pii/S136980011200114X>

- 7 Electrochemical Reduction of Carbon Dioxide using Sol gel Processed Copper Indium Sulfide CIS Immobilized on ITO Coated Glass Electrode**
GETACHEW ADAM,ASLAN FERHAT,Engelbert Portenkirchner,Philipp Stadler,Markus Scharber,Niyazi Serdar Sarıçiftci
Electrocatalysis,<http://link.springer.com/10.1007/s12678-015-0257-y>
- 8 Enhancing crystalline/optical quality, and photoluminescence properties of the Na and Sn substituted ZnS thin films for optoelectronic and solar cell applications; a comparative study**
GÖKTAŞ ABDULLAH, TUMBUL AHMET, Aba Zekiye, KILIÇ AHMET, ASLAN FERHAT
Optical Materials,<http://dx.doi.org/10.1016/j.optmat.2020.110073>
- 9 Enhancing performance of SnS₂ based self-powered photodetector and photocatalyst by Na incorporation**
Aslan Esra,Kaya Dilannur,KARADAĞ KERİM,HARMANCI UĞUR,ASLAN FERHAT
Ceramics International,<https://doi.org/10.1016/j.ceramint.2024.05.063>
- 10 Grain size induced structural magnetic and magnetoresistance properties of Nd_{0.67}Ca_{0.33}MnO₃ nanocrystalline thin films**
GÖKTAŞ ABDULLAH,TUMBUL AHMET,ASLAN FERHAT
Journal of Sol-Gel Science and Technology,<http://link.springer.com/10.1007/s10971-016-3960-0>
- 11 Growth of ZnO nanorod arrays by one step sol gel process**
ASLAN FERHAT,TUMBUL AHMET,GÖKTAŞ ABDULLAH,Refika Budakoğlu,MUTLU İBRAHİM HALİL
Journal of Sol-Gel Science and Technology,<http://link.springer.com/10.1007/s10971-016-4131-z>
- 12 Highly stable ethanol-based Cu₂ZnSnS₄ (CZTS) low-cost thin film absorber: Effect of solution aging**
TUMBUL AHMET, ASLAN FERHAT, GÖKTAŞ ABDULLAH, ZARBALI MAHARRAM, KILIÇ AHMET
Materials Chemistry and Physics,<http://dx.doi.org/10.1016/j.matchemphys.2020.123997>
- 13 Hot fluid production with condensing solar collector for industrial thermal processes: Development of a 20-kW linear fresnel collector prototype**
AKTACIR MEHMET AZMİ,İŞİKER YUSUF,BEŞLİ NURETTİN,ASLAN FERHAT,YILDIRIM ERDAL,GÜMÜŞÇÜ ABDÜLKADİR,İLKHAN MEHMET AKİF,SUZER MEHMET HADİ,ÖZEN MUSTAFA
Thermal Science and Engineering Progress,<https://doi.org/10.1016/j.tsep.2024.102971>
- 14 Improving the optical properties of CuCoMnOx spinel absorber using ZnO nanorod arrays for thermal collector and photocatalytic applications**
Aslan Esra,Emir Ömer,ARSLAN FERİT,GÖKTAŞ ABDULLAH,TUMBUL AHMET,DURGUN MUSTAFA,KILIÇ AHMET,AKTACIR MEHMET AZMİ,ASLAN FERHAT
Ceramics International,<https://doi.org/10.1016/j.ceramint.2023.12.233>
- 15 Indium selenide thin film preparation by sol gel technique**
MUTLU İBRAHİM HALİL,Maharram Z Zarbaliyev,ASLAN FERHAT
Journal of Sol-Gel Science and Technology,<http://link.springer.com/10.1007/s10971-007-1573-3>
- 16 Influence of pH on structural optical and electrical properties of solution processed Cu₂ZnSnS₄ thin film absorbers**
ASLAN FERHAT,GÖKTAŞ ABDULLAH,TUMBUL AHMET
Materials Science in Semiconductor Processing,<http://linkinghub.elsevier.com/retrieve/pii/S1369800115302705>

- 17 **Nanostructured Cu doped ZnS polycrystalline thin films produced by a wet chemical route the influences of Cu doping and film thickness on the structural optical and electrical properties**
GÖKTAŞ ABDULLAH, ASLAN FERHAT, TUMBUL AHMET
Journal of Sol-Gel Science and Technology, <http://link.springer.com/10.1007/s10971-015-3674-8>
- 18 **Non vacuum processed Cu₂ZnSnS₄ thin films Influence of copper precursor on structural optical and morphological properties**
ASLAN FERHAT, TUMBUL AHMET
Journal of Alloys and Compounds, <http://linkinghub.elsevier.com/retrieve/pii/S092583881401247X>
- 19 **Physical properties of solution processable n-type Fe and Al co-doped ZnO nanostructured thin films: Role of Al doping levels and annealing**
GÖKTAŞ ABDULLAH, ASLAN FERHAT, YEŞİLATA BÜLENT, boz ibrahim
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, <https://linkinghub.elsevier.com/retrieve/pii/S136980011732543X>
- 20 **Preparation and characterisation of thickness dependent nano structured ZnS thin films by sol gel technique**
GÖKTAŞ ABDULLAH, ASLAN FERHAT, Eyup Yasar, MUTLU İBRAHİM HALİL
Journal of Materials Science: Materials in Electronics, <http://link.springer.com/10.1007/s10854-011-0599-z>
- 21 **Preparation and characterization of In₂S₃ semiconductor thin films using the sol gel method**
Maharram Z Zarbaliyev, MUTLU İBRAHİM HALİL, ASLAN FERHAT
Journal of Sol-Gel Science and Technology, <http://link.springer.com/10.1007/s10971-011-2473-0>
- 22 **Preparation of Ga₂Se₃ thin films by sol gel technique**
MUTLU İBRAHİM HALİL, Maharram Z Zarbaliyev, ASLAN FERHAT
Journal of Sol-Gel Science and Technology, <http://link.springer.com/10.1007/s10971-009-1973-7>
- 23 **Preparation of high-quality SnS thin films for self-powered photodetectors and solar cells using a low-temperature powder technique**
ÖZTÜRK HAMİT, ASLAN FERHAT
OPTICAL MATERIALS,
- 24 **Sol gel derived In₂S₃ buffer layers for inverted organic photovoltaic cells**
ASLAN FERHAT, Getachew Adam, Philipp Stadler, GÖKTAŞ ABDULLAH, MUTLU İBRAHİM HALİL, Niyazi Serdar Sariciftci
Solar Energy, <http://linkinghub.elsevier.com/retrieve/pii/S0038092X14003582>
- 25 **Solar-blind ultraviolet photodetector based on Ti-doped Ga₂O₃/Si p-n heterojunction**
HARMANCI UĞUR, GÜLLÜOĞLU MEHMET TAHİR, ASLAN FERHAT, ATILGAN ABDULLAH, YILDIZ ABDULLAH
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS,
- 26 **Solution assisted roll-coating of transparent conducting oxide thin films for organic photovoltaic applications**
ASLAN FERHAT
THIN SOLID FILMS, <https://linkinghub.elsevier.com/retrieve/pii/S004060901930183X>
- 27 **Solution processed boron doped ZnO thin films: influence of different boron complexes**

- 27 TUMBUL AHMET,ASLAN FERHAT,Demirözü songül,GÖKTAŞ ABDULLAH,KILIÇ AHMET,DURGUN MUSTAFA,ZARBALI MAHARRAM
Materials Research Express,
- 28 **Solution processed n-In₂S₃/p-P3HT planar hybrid solar cell**
ASLAN FERHAT
Journal of Sol-Gel Science and Technology,<http://link.springer.com/10.1007/s10971-016-4229-3>
- 29 **Structural, morphological and optical properties of the vacuum-free processed CZTS thin film absorbers**
TUMBUL AHMET,GÖKTAŞ ABDULLAH,ZARBALI MAHARRAM,ASLAN FERHAT
Materials Research Express,<http://stacks.iop.org/2053-1591/5/i=6/a=066408?key=crossref.40def232eee1f4958ae0027a4719f9c2>
- 30 **Synthesis and characterization of solution processed p-SnS and n-SnS₂ thin films: Effect of starting chemicals**
ASLAN FERHAT, ARSLAN FERİT, TUMBUL AHMET, GÖKTAŞ ABDULLAH
OPTICAL MATERIALS,
- 31 **Synthesis and characterization of spray pyrolysis Zinc Oxide microrods**
ALVER ÜMİT,Kılınç T,BACAKSIZ EMİN,KÜÇÜKÖMEROĞLU TAYFUR,Nezir S,MUTLU İBRAHİM HALİL,ASLAN FERHAT
Thin Solid Films,<http://linkinghub.elsevier.com/retrieve/pii/S0040609006011576>
- 32 **Tuning of structural optical and dielectric constants by various transition metal doping in ZnO TM Mn Co Fe nanostructured thin films A comparative study**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,TUMBUL AHMET,Gündüz Seçil
Ceramics International,<http://linkinghub.elsevier.com/retrieve/pii/S0272884216317485>

Bildiriler (YOKSIS)

- 1 **A Simple Method For Measurement of Dielectric Constant of BaTiO₃ Isulation Thin Film**
Akyüz Hatice,ASLAN FERHAT
Balkan Physical Union 2nd International Physics Projects Competition for University Students ,
- 2 **A study on Mg-doped ZnO nanostructured thin films: Structural, optical and an aplication of Al/Mg-doped ZnO/p-Si heterojunction diode**
MUTLU İBRAHİM HALİL,GÖKTAŞ ABDULLAH,ASLAN FERHAT,TUMBUL AHMET
TURKISH PHYSICAL SOCIETY 33. CONGRESS ,
- 3 **Ag/ITO/ZnO/ZnFeCuS/Ag YARI SAYDAM ÇOK KATMANLARIN HAZIRLANMASI ve KARAKTERİZASYONU**
GÖKTAŞ ABDULLAH, ASLAN FERHAT
1st International Conference on Scientific and Academic Research , <https://www.icsarconf.com/>
- 4 **Annealing Environment-Induced Structural, Optical and Magnetic Characterisation Of Highly Oriented Co and Cu Doped ZnO Nanocrystalline Thin Films**
GÖKTAŞ ABDULLAH,MUTLU İBRAHİM HALİL,TUMBUL AHMET,ASLAN FERHAT
Turkish Physical Society 33. International Physics Congress ,
- 5 **Cu and Mn Co-Doped ZnS Thin Films Produced by Sol-Gel Dip Coating on Pyrex Glass**

- 5 GÖKTAŞ ABDULLAH,TUMBUL AHMET,ASLAN FERHAT,ZARBALI MAHARRAM
Turkish Physical Society 33. International Physics Congress ,
- 6 **Effect of annealing temperature on structural optical and electrical properties of dip coated ITO films**
ASLAN FERHAT,Zarbali Muharrem,TUMBUL AHMET,Boz İbrahim,MUTLU İBRAHİM HALİL
29 th International Physical Conference ,
- 7 **Effect of Highly Mg dopant level on the structural and optical properties of ZnO thin films.**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,TUMBUL AHMET,ZARBALI MAHARRAM,Boz İbrahim
III. International Turkish Congress on Molecular Spectroscopy ,
- 8 **Effect of S In ratio on morphological optical and structural properties of dip coated CuInS₂ thin films**
ASLAN FERHAT,Zarbali Muharrem,TUMBUL AHMET,Yeşilata Bülent,MUTLU İBRAHİM HALİL
SolarTR-2 Solar Electricity Conference and Exhibition ,
- 9 **Effect of Sn/S ratio on Optical and Structural Properties of Solution Processed SnS Thin Films**
TUMBUL AHMET,ASLAN FERHAT,GÖKTAŞ ABDULLAH,ZARBALI MAHARRAM,Arslan Ferit
Turkish Physical Society 33. International Physics Congress ,
- 10 **Effect of Various zinc Precursors on Physical Properties of Al doped ZnO Thin Films**
ASLAN FERHAT,GÖKTAŞ ABDULLAH,TUMBUL AHMET,Budakoğlu Refika,MUTLU İBRAHİM HALİL
Solar TR 3 ,
- 11 **Epoksi Reçine (Duratek DTE 1200) İçersine Katkılanmış Çeşitli Sol-Jel Çözeltilerin Sertliğe Etkisi**
MUTLU İBRAHİM HALİL,ASLAN FERHAT,Yıldırım Onur,ÇÖLKESEN PINAR
The International Conference Materials Sciences, Mechanical and Automotive Engineerings and Thechnology in Cappadocia- TURKEY (IMSMATEC2019) , <http://imsmatec.org/uploads/269/imsmatec-2019-bildiri-kitapcigi.pdf>
- 12 **Fabrication of The Perovskite Like La₂ 3A1 2MnO₃ Where A K and Ag Thin Films By Sol Gel Dip Coating on Pyrex Glass**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,MUTLU İBRAHİM HALİL
25 th International Physical Congress ,
- 13 **GAP SANLIURFA Bölgesinde Güneş Isınlarından Faydalanılarak Silindirik ve Küresel Yogunlaştırıcıların Karşılaştırılması**
Demirkol Sedat,ASLAN FERHAT,MUTLU İBRAHİM HALİL
Ulusal Temiz Enerji Sempozyumu (UTES 2004) ,
- 14 **IMPACT OF HIGHLY CU DOPING ON CERTAIN PHYSICAL PROPERTIES OF ZnS THIN FILMS**
MUTLU İBRAHİM HALİL,GÖKTAŞ ABDULLAH,ASLAN FERHAT,TUMBUL AHMET
TÜRK FİZİK DERNEĞİ 32.ULUSLARARASI FİZİK KONGRESİ ,
- 15 **Investigation of Optical and Electrical Properties of ITO Thin Films Produced by Magnetron Sputter Technique**
ÖZTÜRK Hamit,TUMBUL AHMET,ASLAN FERHAT,GÖKTAŞ ABDULLAH,ZARBALI MAHARRAM
International GAP Renewable Energy and Energy Efficiency Congress ,

- 16 Magnetoresistance Effect in of La_{0.67}Ca_{0.33}MnO₃ and La_{0.67}Sr_{0.33}MnO₃ films produced using dip coating method**
GÖKTAŞ ABDULLAH, Gencer Hüseyin, GÜNEŞ MURAT, BABUR YUNUS, ASLAN FERHAT, MUTLU İBRAHİM HALİL
International Conference on Nanoscale Magnetism ,
- 17 NANO STRUCTURE TYPE INDUCED STRUCTURAL AND OPTICAL PROPERTIES OF ZnS THIN FILMS A COMPARATIVE STUDY**
GÖKTAŞ ABDULLAH, ASLAN FERHAT, TUMBUL AHMET, MUTLU İBRAHİM HALİL, ZARBALI MUHARREM
TÜRK FİZİK DERNEĞİ 32. ULUSLARARASI FİZİK KONGRESİ ,
- 18 pH depended Structural and Optical Properties of ZnS nanocrystalline thin films**
GÖKTAŞ ABDULLAH, TUMBUL AHMET, ASLAN FERHAT
11th Nanoscience and Nanotechnology Conference ,
- 19 Physical properties of Sol-Gel Processed Cu₂ZnSnS₄ Thin Film Absorber: Influence of Annealing Temperature**
TUMBUL AHMET, ASLAN FERHAT, GÖKTAŞ ABDULLAH, ZARBALI MAHARRAM, MUTLU İBRAHİM HALİL
Turkish Physical Society 33. International Physics Congress ,
- 20 Role of different zinc precursors on certain physical properties of sol gel deposited Cu₂ZnSnS₄ CZTS thin film absorbers**
MUTLU İBRAHİM HALİL, TUMBUL AHMET, ASLAN FERHAT, GÖKTAŞ ABDULLAH, MUHARREM ZARBALI
TÜRK FİZİK DERNEĞİ 32. ULUSLARARASI FİZİK KONGRESİ ,
- 21 ROLE OF GRAIN SIZE ON THE FERROMAGNETIC BEHAVIOR OF Nd_{0.67}Ca_{0.33}MnO₃ THIN FILMS**
GÖKTAŞ ABDULLAH, ASLAN FERHAT, TUMBUL AHMET, MUHARREM ZARBALI
TÜRK FİZİK DERNEĞİ 32. ULUSLARARASI FİZİK KONGRESİ ,
- 22 Size-Induced Structural, Optical and Electrical Properties of Mg-Doped ZnO Thin Films.**
GÖKTAŞ ABDULLAH, TUMBUL AHMET, ASLAN FERHAT, ZARBALI MAHARRAM
Turkish Physical Society 33. International Physics Congress ,
- 23 Sol Jel yöntemiyle In₂Se₃ ve Ga₂Se₃ ince filmlerin üretilmesi**
MUTLU İBRAHİM HALİL, Zarbaliyev Muharrem, ASLAN FERHAT, Yeşilata Bülent
II. Ulusal Güneş ve Hidrojen Enerjisi (UGHEK 2008) Kongresi ,
- 24 Sol Jel yöntemiyle indiyum kalay oksit ITO ince film üretimi**
MUTLU İBRAHİM HALİL, Palalı Esra, ASLAN FERHAT, Eseller Kemal Efe
23 th International Physical Congress ,
- 25 Sol Jel Yöntemiyle YBa₂Cu₃O_{7-x} Seramik Süperiletken Film Üretimi**
MUTLU İBRAHİM HALİL, ASLAN FERHAT, Palalı Esra, Eseller Kemal Efe
23 th International Physical Congress ,
- 26 SOL-JEL İLE TÜRETİLEN CU₂ZNINS₄ (CZTS) İNCE FİMLERİN BOYUTA BAĞLI YAPISAL VE YÜZEY ÖZELLİKLERİ**

- 26 GÖKTAŞ ABDULLAH, ASLAN FERHAT, ARSLAN FERİT
7. INTERNATIONAL PALANDÖKEN SCIENTIFIC STUDIES CONGRESS ,
<https://www.isarconference.org/palandoken>
- 27 **SOLUTION PROCESSED Cu₂SnS₃ ABSORBER LAYER STRUCTURAL and OPTICAL PROPERTIES**
TUMBUL AHMET,BOZ İBRAHİM,ASLAN FERHAT,GÖKTAŞ ABDULLAH,ZARBALI MUHARREM,MUTLU İBRAHİM HALİL
TÜRK FİZİK DERNEĞİ 32.ULUSLARARASI FİZİK KONGRESİ ,
- 28 **Solution Processed In₂S₃ ThinFilms For Hybrid Photovoltaic Devices**
ASLAN FERHAT,Adam Getachew,Sarıçiftçi Niyazi Serdar,MUTLU İBRAHİM HALİL
SolarTR-3 Solar Electricity Conference and Exhibition ,
- 29 **Structural optical and electricalcharacterization of dip coated ZnO Al thin films**
ASLAN FERHAT,Zarbali Muharrem,TUMBUL AHMET,MUTLU İBRAHİM HALİL
29 th International Physical Conference ,
- 30 **STRUCTURAL and OPTICAL PROPERTIES OF Fe and Al CO DOPED ZnMnO THIN FILMS**
BABUR YUNUS,GÖKTAŞ ABDULLAH,YILDIRIM MEHMET,ASLAN FERHAT
TÜRK FİZİK DERNEĞİ 32.ULUSLARARASI FİZİK KONGRESİ, 6-9 Eylül, Bodrum ,
- 31 **Structural and Optical Properties ofMagnetron Sputerred Zn_{1-x}AxO A Mn Fe Co thin films**
GÖKTAŞ ABDULLAH,ASLAN FERHAT,TUMBUL AHMET
NANOSMAT-Asia Conference ,
- 32 **THE ROLE MN SUBSTITUTIONS ON THE MORPHOLOGY CRYSTALLITEGRAIN SIZE AND OPTICAL CONSTANTS OF ZNS NANOCRYSTALLINETHIN FILMS**
GÖKTAŞ ABDULLAH,TUMBUL AHMET,YORULMAZ NURİ,ASLAN FERHAT,YAŞAR MEHMET MURAT
7. International Conference on Advanced Technologies ,
- 33 **Wet chemical Deposited ITO Thin Films and their Optoelectronic and Microstructural Properties**
BUDAKOĞLU REFİKA,ZAYİM EÖ,GÜZELLER S,BOZ İBRAHİM,ASLAN FERHAT
The International Conference on Coatings on Glass and Plastics ,