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### Kişisel Bilgiler

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### 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 Cu<sub>2</sub>ZnSnS<sub>4</sub> (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<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> 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 Effect of preparation technique on the selected characteristics of Zn<sub>1-x</sub>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>
- 5 Effects of Cu In ratio and annealing temperature on physical properties of dip coated CuInS<sub>2</sub> thin films**  
ASLAN FERHAT,MZ Zarbali,Yesilata B,MUTLU İBRAHİM HALİL  
Materials Science in Semiconductor Processing,<http://linkinghub.elsevier.com/retrieve/pii/S136980011200114X>
- 6 Electrocatalytic 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 Sarçiftci  
Electrocatalysis,<http://link.springer.com/10.1007/s12678-015-0257-y>

- 7 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>
- 8 Grain size induced structural magnetic and magnetoresistance properties of Nd<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> 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>
- 9 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>
- 10 Highly stable ethanol-based Cu<sub>2</sub>ZnSnS<sub>4</sub> (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>
- 11 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>
- 12 Influence of pH on structural optical and electrical properties of solution processed Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film absorbers**  
ASLAN FERHAT, GÖKTAŞ ABDULLAH, TUMBUL AHMET  
Materials Science in Semiconductor Processing,<http://linkinghub.elsevier.com/retrieve/pii/S1369800115302705>
- 13 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>
- 14 Non vacuum processed Cu<sub>2</sub>ZnSnS<sub>4</sub> 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>
- 15 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>
- 16 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>
- 17 Preparation and characterization of In<sub>2</sub>S<sub>3</sub> semiconductor thin films using the sol gel method**

- 17 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>
- 18 **Preparation of Ga<sub>2</sub>Se<sub>3</sub> 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>
- 19 **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,
- 20 **Sol gel derived In<sub>2</sub>S<sub>3</sub> 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>
- 21 **Solar-blind ultraviolet photodetector based on Ti-doped Ga<sub>2</sub>O<sub>3</sub>/Si p-n heterojunction**  
HARMANCI UĞUR, GÜLLÜOĞLU MEHMET TAHİR, ASLAN FERHAT, ATILGAN ABDULLAH, YILDIZ ABDULLAH  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS,
- 22 **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>
- 23 **Solution processed boron doped ZnO thin films: influence of different boron complexes**  
TUMBUL AHMET, ASLAN FERHAT, Demirözü songül, GÖKTAŞ ABDULLAH, KILIÇ AHMET, DURGUN MUSTAFA, ZARBALI MAHARRAM  
Materials Research Express,
- 24 **Solution processed n-In<sub>2</sub>S<sub>3</sub>/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>
- 25 **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>
- 26 **Synthesis and characterization of solution processed p-SnS and n-SnS<sub>2</sub> thin films: Effect of starting chemicals**  
ASLAN FERHAT, ARSLAN FERİT, TUMBUL AHMET, GÖKTAŞ ABDULLAH  
OPTICAL MATERIALS,
- 27 **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>

- 27  
28 **Tuning of structural optical and dielectric constants by various transition metal doping in ZnO TM 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 BaTiO<sub>3</sub> 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**  
GÖKTAŞ ABDULLAH,TUMBUL AHMET,ASLAN FERHAT,ZARBALİ 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,ZARBALİ 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 CuInS<sub>2</sub> 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,ZARBALİ 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**

- 10 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 Conferencance 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 La<sub>2</sub> 3A1 2MnO<sub>3</sub> WhereA K and Ag Thin Films By Sol Gel Dip Coating on Pyrex Glass**  
GÖKTAŞ ABDULLAH,ASLAN FERHAT,MUTLU İBRAHİM HALİL  
25 th International PhysicalCongress ,
- 13 **GAP SANLIURFA Bölgesinde Güneşlınlarından Faydalanılarak Silindirik ve Küresel YogunlastırıcılarınKarsılaştırılması**  
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,ZARBALİ MAHARRAM  
International GAP Renewable Energy and Energy Efficiency Congress ,
- 16 **Magnetoresistance Effect in of La<sub>0</sub> 67Ca<sub>0</sub> 33MnO<sub>3</sub> and La<sub>0</sub> 67Sr<sub>0</sub> 33MnO<sub>3</sub> films produced usingdip 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,ZARBALİ MUHARREM  
TÜRK FİZİK DERNEĞİ 32.ULUSLARARASI FİZİK KONGRESİ ,
- 18 **pH depended Structural and OpticalProperties of ZnS nanocrystalline thin films**  
GÖKTAŞ ABDULLAH,TUMBUL AHMET,ASLAN FERHAT  
11th Nanoscience and Nanotechnology Conference ,
- 19 **Pyhsical properties of Sol-Gel Processed Cu<sub>2</sub>ZnSnS<sub>4</sub> Thin Film Absorber: Influence of Annealing Temperature**  
TUMBUL AHMET,ASLAN FERHAT,GÖKTAŞ ABDULLAH,ZARBALİ 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 Cu<sub>2</sub>ZnSnS<sub>4</sub> CZTS thin film absorbers**

- 20 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<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> 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 In<sub>2</sub>Se<sub>3</sub> ve Ga<sub>2</sub>Se<sub>3</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Seramik Süperiletken Film Üretimi**  
MUTLU İBRAHİM HALİL,ASLAN FERHAT,Palalı Esra,Eseller Kemal Efe  
23 th International Physical Congress ,
- 26 **SOL-JEL İLE TÜRETİLEN CU<sub>2</sub>ZN<sub>1-x</sub>Sn<sub>x</sub>S<sub>4</sub> (CZTS) İNCE FILMLERİN BOYUTA BAĞLI YAPISAL VE YÜZEY ÖZELLİKLERİ**  
GÖKTAŞ ABDULLAH, ASLAN FERHAT, ARSLAN FERİT  
7. INTERNATIONAL PALANDÖKEN SCIENTIFIC STUDIES CONGRESS ,  
<https://www.isarconference.org/palandoken>
- 27 **SOLUTION PROCESSED Cu<sub>2</sub>SnS<sub>3</sub> 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 In<sub>2</sub>S<sub>3</sub> Thin Films 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 electrical characterization 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 of Magnetron Sputtered Zn<sub>1-x</sub>AxO A Mn Fe Co thin films**

- 31** 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 ,