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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey 2001 - 2007

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), Turkey 1998 - 2001

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 1998

Dissertations

Postgraduate, Hofmann-en-tipi klatratların kırmızı altı spektroskopik bölgesinde incelenmesi $M(1,2\text{-diaminoethane})_mNi(CN)_4.nG$ ($M=Cd$ veya Ni , $n=1$ veya 2 , G =aromatik konuk moleküller), Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), 2001

Research Areas

Physics

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2017 - Continues

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2012 - 2017

Assistant Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2008 - 2012

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 1998 - 2008

Academic and Administrative Experience

Director of the Center, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2021 - Continues

Head of Department, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik, 2017 - 2021

Head of Department, Eskisehir Osmangazi University, Fizik Bölümü, 2017 - 2021

Head of Department, Eskisehir Osmangazi University, SAĞLIK HİZMETLERİ MESLEK YÜKSEKOKULU, TIBBİ HİZMETLER VE TEKNİKLER BÖLÜMÜ, 2014 - 2017

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2013

Deputy Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2009 - 2010

Advising Theses

- PAT S., Yoğunluk Fonksiyonel Teorisi ile İki Boyutlu Malzemelerin Fiziksel Özelliklerinin İncelenmesi, Doctorate, M.ÖZGÜR(Student), 2020
- PAT S., Daha Fazla Korozyon Koruması İçin Çelik Üzerine Nano Katmanlı PVD Kaplamaların Geliştirilmesi, Doctorate, H.HAKAN(Student), 2020
- PAT S., Boron Nitrür (BN) ince film ara katmanlar üzerine üretilen yüksek performanslı elektronik uygulamaların geliştirilmesi ve özelliklerinin incelenmesi, Doctorate, R.MOHAMMADIGHAREHBAGH(Student), 2020
- PAT S., Elektrokromik Nano Sensör, Postgraduate, O.THAER(Student), 2020
- PAT S., TiO₂ ince filmlerin fotokatalitik özelliklerinin incelenmesi, Postgraduate, A.ŞAHİN(Student), 2019
- PAT S., Metal Braketlerin Termiyonik Vakum Ark Tekniği İle Kaplanması, Postgraduate, T.ALAN(Student), 2019
- PAT S., Termiyonik vakum ark yöntemi ile bazı iki boyutlu hegzagonal yapıların üretilmesi, Postgraduate, C.MUSAOĞLU(Student), 2019
- PAT S., Termiyonik vakum ark (TVA) tekniği ile üretilen In, Si, Ge, B ve Cr katkılı ZnO ince filmlerin bazı özellikleri, Postgraduate, R.MOHAMMADIGHAREHBAGH(Student), 2018
- PAT S., LiPO katı elektrolitli pil hücresinin bazı özellikleri, Postgraduate, H.HAKAN(Student), 2017
- PAT S., Termiyonik vakum ark metodu ile üretilen titanyum dioksit ince filmlerin elektrokromik özelliklerinin incelenmesi, Postgraduate, E.ŞİLİK(Student), 2017
- PAT S., Katkılı ve katkısız GaAs ince filmlerin üretilmesi ve bazı özelliklerinin incelenmesi, Doctorate, V.ŞENAY(Student), 2016
- PAT S., Reaktif RF saçırma yöntemi ile TiN ince filmlerin üretilmesi ve bazı fiziksel özelliklerinin incelenmesi, Postgraduate, M.NEBİ(Student), 2013
- PAT S., RF saçırma yöntemiyle üretilen alüminyum nitrit (AlN) ince filmlerin bazı fiziksel özellikleri, Postgraduate, M.KOKKOĞLU(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optical and electrical properties of annealed graphene oxide doped Al₂O₃:ZnO thin film**
Aydemir İ., PAT S.
Surfaces and Interfaces, vol.53, 2024 (SCI-Expanded)
- II. **Investigating magnetic properties and Curie temperatures of FeX₂ (X=S, Se, Te) monolayers**
ÖZGÜR M., PAT S., KORKMAZ Ş.
Physica Scripta, vol.99, no.9, 2024 (SCI-Expanded)
- III. **Narrow-band n-GaN/n-Si isotype heterojunction photodiode: A simplified approach for photodiode development**
Olkun A., Kaplan H. K., AKAY S. K., AHMETOĞLU M., PAT S., Erdoğan N.
Sensors and Actuators A: Physical, vol.374, 2024 (SCI-Expanded)
- IV. **Investigation of Optical and Electric Properties of Post-Annealed Graphene: In₂O₃:ZnO Thin Film**
Akırtın A., KORKMAZ Ş., PAT S.
ECS Journal of Solid State Science and Technology, vol.13, no.7, 2024 (SCI-Expanded)
- V. **Investigation of isothermal entropy change, relative cooling power, and refrigerant capacity of GdCoAl nanocomposite thin film by changing the Al ratio at low magnetic fields of 100 Oe and 1000 Oe**
BAYER Ö., PAT S.
Surfaces and Interfaces, vol.50, 2024 (SCI-Expanded)
- VI. **Optical and electric properties of Fe₃O₄ nanoparticle doped ZnO thin films**
Ozer Z. N., Ozkan M., PAT S.
Ceramics International, vol.50, no.13, pp.22696-22703, 2024 (SCI-Expanded)
- VII. **Investigation on the optical and electrochromic characteristics of thin films of WO₃ doped with graphene and MXene (Ti₂AlC)**

- Öztetik B., PAT S., KORKMAZ Ş.
Ceramics International, vol.50, no.8, pp.13113-13124, 2024 (SCI-Expanded)
- VIII. **Osteogenic Differentiation Capacity of Dental Pulp Stem Cells on 3D Printed Polyurethane/Boric Acid Scaffold**
Çelebi-Saltik B., Babadag S., BALLIKAYA E., PAT S., ÖTEYAKA M. Ö.
Biological Trace Element Research, vol.202, no.4, pp.1446-1456, 2024 (SCI-Expanded)
- IX. **Optical properties of Se-doped ZnO nanocrystalline thin films deposition by thermionic vacuum arc system**
PAT S., Mohammadigharehbagh R., AKKURT ÖZGÜR N., KORKMAZ Ş.
Infrared Physics and Technology, vol.137, 2024 (SCI-Expanded)
- X. **Optical and electric characteristics of CuO nanoparticle-doped ZnO thin films using thermionic vacuum arc deposition system**
Ozer Z. N., Ozkan M., PAT S.
Journal of Materials Science: Materials in Electronics, vol.35, no.6, 2024 (SCI-Expanded)
- XI. **Structural, optical and magnetic properties of Fe, Co and Co[sbnd]Fe doped SnO₂ thin films deposited by a thermionic vacuum arc deposition system**
PAT S., Öztetik B., KORKMAZ Ş.
Surfaces and Interfaces, vol.45, 2024 (SCI-Expanded)
- XII. **Electrochemical investigation of ZnO effect of amorphous V₂O₅-P₂O₅ glassy electrodes**
Mohammadigharehbagh R., İLİK E., KILIÇ G., Öztetik B., PAT S., KORKMAZ Ş.
Journal of Materials Science: Materials in Electronics, vol.34, no.30, 2023 (SCI-Expanded)
- XIII. **Sensitive determination of Leishmania spp. in human serum samples through a Nb₂O₅:Graphene/ITO genosensing electrode platform**
Sohrabi H., Mohammadigharehbagh R., Mehri P., Mokhtarzadeh A., Reza Majidi M., PAT S., Mirzapourasl H.
Microchemical Journal, vol.193, 2023 (SCI-Expanded)
- XIV. **Comparison of thermal and surface properties of silver and silver-graphene thin film heaters**
Ziftci M. A., PAT S., Akirtin A., Oztetik B., KORKMAZ Ş.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.155, 2023 (SCI-Expanded)
- XV. **Could Helium Plasma Treatment be a Novel Approach to Prevent the Biofilm Formation of *Candida albicans*?**
AVUKAT E. N., AKAY C., Topcu Ersöz M. B., MUMCU E., PAT S., Erdönmez D.
MYCOPATHOLOGIA, vol.188, no.4, pp.361-369, 2023 (SCI-Expanded)
- XVI. **Flexural Strength and Vickers Microhardness of Graphene-Doped SnO₂ Thin-Film-Coated Polymethylmethacrylate after Thermocycling**
AKAY C., Cakmak G., Donmez M. B., Abou-Ayash S., MUMCU E., PAT S., Yilmaz B.
COATINGS, vol.13, no.6, 2023 (SCI-Expanded)
- XVII. **Evaluation of magnetocaloric behavior and refrigeration performance of Gd₃Co₁₀Al₁₈ nanostructured thin film alloy with multiple Curie temperatures**
BAYER Ö., Oskouei S. B., PAT S.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.129, no.4, 2023 (SCI-Expanded)
- XVIII. **Influence of oxygen effect in coating layer on tensile bond strength of PMMA**
Mumcu E., Ersoz M. B., Avukat E. N., Akay C., Pat S.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.72, no.7, pp.507-516, 2023 (SCI-Expanded)
- XIX. **Corrosion behavior of graphene coated Ti-6Al-4 V alloy by anodic plasma coating method**
PAT S., ÇAKIR F. H., ÖTEYAKA M. Ö.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.147, 2023 (SCI-Expanded)
- XX. **Investigation of pH measurement of drinking water by disposable, high accuracy, and semi-transparent BN/Ag nanocomposite thin film sensors**
Mohammadigharehbagh R., PAT S., Akkurt N., KORKMAZ Ş.
Inorganic and Nano-Metal Chemistry, vol.53, no.2, pp.212-217, 2023 (SCI-Expanded)

- XXI. **Investigation of substrate effect on Co-doped ZnO thin films prepared by thermionic vacuum arc technique**
Özkan M., Sadık Erdem S., Mohammadigharehbagh R., Kurtaran S., Pat S.
Inorganic Chemistry Communications, vol.146, 2022 (SCI-Expanded)
- XXII. **Optical and surface properties of Gd-doped ZnO thin films deposited by thermionic vacuum arc deposition technology**
Roknidoust Foumani I., PAT S.
Inorganic Chemistry Communications, vol.144, 2022 (SCI-Expanded)
- XXIII. **Deep understanding in physical and electrochemical performance of WO₃-TiO₂ nanocomposite thin films deposited onto ITO and FTO coated glass substrates using a thermionic vacuum arc deposition system**
PAT S., Mohammadigharehbagh R., Ozgur N. A., Oztetik B., KORKMAZ Ş.
Physica B: Condensed Matter, vol.640, 2022 (SCI-Expanded)
- XXIV. **Substrate effect on electrochromic properties of Nb₂O₅:TiO₂ nanocomposite thin films deposited by thermionic vacuum arc**
Özgür N. A., PAT S., Mohammadigharehbagh R., KORKMAZ Ş.
Vacuum, vol.202, 2022 (SCI-Expanded)
- XXV. **Improved Corrosion Protection of Stainless Steel by Two Dimensional BN Nanomaterial Coating**
Duran B., Pat S.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.6, 2022 (SCI-Expanded)
- XXVI. **Optical properties of Nb₂O₅ doped ZnO nanocomposite thin film deposited by thermionic vacuum arc**
PAT S., ÇELİK Ö., ODABAŞ A., KORKMAZ Ş.
Optik, vol.258, 2022 (SCI-Expanded)
- XXVII. **The effect of Cu doping on optical and surface properties of ZnO thin films fabricated by thermionic vacuum arc (TVA) deposition**
ÖZKAN M., Erdem S. S., Mohammadigharehbagh R., PAT S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.2, pp.1030-1038, 2022 (SCI-Expanded)
- XXVIII. **Evaluation Flexural Strength of PMMA Resins with the Addition of Nanoparticles**
AKAY C., KARAKIŞ D., PAT S.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.10, no.12, 2021 (SCI-Expanded)
- XXIX. **Evaluation of Helium Plasma Surface Modification on Tensile Bond Strength of Denture Base Materials: A Scanning Electron Microscope Study**
AKAY C., AVUKAT E. N., Topcu M. B., MUMCU E., PAT S.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.10, no.12, 2021 (SCI-Expanded)
- XXX. **Energy storage and semiconducting properties of polyaniline/graphene oxide hybrid electrodes synthesized by one-pot electrochemical method**
Tokgoz S., Firat Y., Akkurt N., PAT S., PEKSÖZ A.
Materials Science in Semiconductor Processing, vol.135, 2021 (SCI-Expanded)
- XXXI. **Studies on the surface and optical properties of Ta-doped ZnO thin films deposited by thermionic vacuum arc**
PAT S., Mohammadigharehbagh R., Akkurt N., KORKMAZ Ş.
Optical and Quantum Electronics, vol.53, no.11, 2021 (SCI-Expanded)
- XXXII. **Optical and Nanomechanical Properties of C Coated BN Thin Film Deposited by Thermionic Vacuum Arc Technique**
AY G. M., PAT S.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.10, no.10, 2021 (SCI-Expanded)
- XXXIII. **The Effect of Annealing Process on Some Physical Properties of GaN Thin Films with Gr Doping**
ÖZEN S., PAT S., KORKMAZ Ş., Mohammadigharehbagh R., Akkurt N., DEMİRKOL U., ÖZGÜR M.
ECS Journal of Solid State Science and Technology, vol.10, no.10, 2021 (SCI-Expanded)

- XXXIV. **The Substrate Effect on the Optical, Surface, and Electrical Properties of WO₃: ZnO Nanocomposite Thin Films Deposited by Thermionic Vacuum Arc**
PAT S., Foumani I. R.
ECS Journal of Solid State Science and Technology, vol.10, no.10, 2021 (SCI-Expanded)
- XXXV. **Enhanced cycle performance and stability for an electrochromic application; Detailed surface and electrochromic analysis of MXene (Ti₂AlC)-doped Nb₂O₅ cathodic coloration layer**
PAT S., KORKMAZ Ş.
2D Materials, vol.8, no.4, 2021 (SCI-Expanded)
- XXXVI. **Studies on the morphological, structural, optical and electrical properties of Fe-doped ZnO magnetic nano-crystal thin films**
Mohammadigharehbagh R., PAT S., Akkurt N., KORKMAZ Ş.
Physica B: Condensed Matter, vol.609, 2021 (SCI-Expanded)
- XXXVII. **Si-based photodiode and material characterization of TiO₂ thin film**
Kaplan H. K., Olkun A., AKAY S. K., PAT S.
Optical and Quantum Electronics, vol.53, no.5, 2021 (SCI-Expanded)
- XXXVIII. **Investigation of the structural, magnetic, and cooling performance of AlFe thin film and AlFeGd nanometric giant magnetocaloric thin films**
PAT S., BAYER Ö., AKAY S. K., Mohammadigharehbagh R., Kaya M.
Journal of Materials Science: Materials in Electronics, vol.32, no.5, pp.5635-5644, 2021 (SCI-Expanded)
- XXXIX. **Effect of argon plasma on the shear bond strength of Y-TZP zirconia ceramic resin interface**
KARAKIŞ D., AKAY C., PAT S.
ECS Journal of Solid State Science and Technology, vol.10, no.5, 2021 (SCI-Expanded)
- XL. **Investigation of Al-doped CuO thin film deposition by the thermionic vacuum arc technique**
Pat S., Mohammadigharehbagh R., Musaoglu C., Özen S., Korkmaz Ş.
Transactions of the Institute of Metal Finishing, vol.99, no.6, pp.286-291, 2021 (SCI-Expanded)
- XLI. **p-Type transparent Cu₂S thin film grown by Thermionic Vacuum Arc for optoelectronic applications**
Kaplan H. K., AKAY S. K., PAT S., Henini M.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.263, 2021 (SCI-Expanded)
- XLII. **Electrochromic Properties of Graphene Doped Nb₂O₅ Thin Film**
Akkurt N., PAT S., Mohammadigharehbagh R., Olkun A., KORKMAZ Ş.
ECS Journal of Solid State Science and Technology, vol.9, no.12, 2020 (SCI-Expanded)
- XLIII. **Detailed transmittance analysis of high-performance SnO₂-doped WO₃ thin films in UV-Vis region for electrochromic devices**
Olkun A., Pat S., Akkurt N., Mohammadigharehbagh R., Demirkol U., Özgür M., Korkmaz Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.19074-19084, 2020 (SCI-Expanded)
- XLIV. **Flexible poly(styrene-ethylene-butadiene-styrene) hybrid nanofibers for bioengineering and water filtration applications**
Avcı H., Akkulak E., Gergeroglu H., Ghorbanpoor H., Uysal O., Eker Sarıboyacı A., Demir B., Soykan M. N., Pat S., Mohammadigharehbagh R., et al.
Journal of Applied Polymer Science, vol.137, no.26, 2020 (SCI-Expanded)
- XLV. **Investigation of TiO₂ thin films as a cathodic material for electrochromic display devices**
Akkurt N., PAT S., Mohammadigharehbagh R., ÖZGÜR M., DEMİRKOL U., Olkun A., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9568-9578, 2020 (SCI-Expanded)
- XLVI. **Two-dimensional BN-doped ZnO thin-film deposition by a thermionic vacuum arc system**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., DEMİRKOL U., Akkurt N., Olkun A., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.9, pp.6948-6955, 2020 (SCI-Expanded)
- XLVII. **Electrochromic Properties of Graphene Doped TiO₂ Layer Deposited by Thermionic Vacuum Arc**
Pat S., Akkurt N., Mohammadigharehbagh R., Olkun A., Demirkol U., Özgür M., Korkmaz Ş.

ECS Journal of Solid State Science and Technology, vol.9, no.6, 2020 (SCI-Expanded)

- XLVIII. **Electrochromic properties of UV-colored WO₃ thin film deposited by thermionic vacuum arc**
Akkurt N., PAT S., Elmas S., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.2, pp.1293-1301, 2020 (SCI-Expanded)
- XLIX. **Determination of the structural, morphological and optical properties of graphene doped SnO thin films deposited by using thermionic vacuum arc technique**
DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., Elmas S., Ozen S., KORKMAZ Ş.
PHYSICA B-CONDENSED MATTER, vol.569, pp.14-19, 2019 (SCI-Expanded)
- L. **Investigation of physical properties and surface free energy of produced ITO thin films by TVA technique**
Elmas S., KORKMAZ Ş., PAT S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.9, pp.8876-8882, 2019 (SCI-Expanded)
- LI. **The Thermionic Vacuum Arc Method for Rapid Deposition of Cu/CuO/Cu₂O Thin Film**
Musaoglu C., PAT S., Mohammadigharehbagh R., Ozen S., KORKMAZ Ş.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.4, pp.2272-2277, 2019 (SCI-Expanded)
- LII. **Optical, surface and magnetic properties of the Ti-doped GaN nanosheets on glass and PET substrates by thermionic vacuum arc (TVA) method**
PAT S., KORKMAZ Ş., Ozen S., ŞENAY V.
PARTICULATE SCIENCE AND TECHNOLOGY, vol.37, no.3, pp.333-338, 2019 (SCI-Expanded)
- LIII. **Investigation of the microstructural, surface and optical properties of nano-layer MoxSy thin film deposited by thermionic vacuum arc**
Musaoglu C., PAT S., Ozen S., Mohammadigharehbagh R., KORKMAZ Ş.
MATERIALS RESEARCH EXPRESS, vol.6, no.3, 2019 (SCI-Expanded)
- LIV. **Determination of physical properties of graphene doped ZnO (ZnO:Gr) nanocomposite thin films deposited by a thermionic vacuum arc technique**
Elmas S., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., DEMİRKOL U., Ozen S., KORKMAZ Ş.
PHYSICA B-CONDENSED MATTER, vol.557, pp.27-33, 2019 (SCI-Expanded)
- LV. **Sn doped ZnO thin film deposition using thermionic vacuum arc technique**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoglu C., DEMİRKOL U., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.774, pp.1017-1023, 2019 (SCI-Expanded)
- LVI. **Al doped ZnO thin film deposition by thermionic vacuum arc**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoglu C., DEMİRKOL U., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.1, pp.624-630, 2019 (SCI-Expanded)
- LVII. **The microstructural, surface, optical and electrochemical impedance spectroscopic study of the semitransparent all-solid-state thin film battery**
PAT S., Yudar H. H., KORKMAZ Ş., Ozen S., Mohammadigharehbagh R., Pat Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.1, 2019 (SCI-Expanded)
- LVIII. **Investigation of the optical properties of the Cr doped Cu_xO thin film deposited by thermionic vacuum arc plasma**
PAT S., Mohammadigharehbagh R., Musaoglu C., Ozen S., KORKMAZ Ş.
OPTIK, vol.180, pp.350-354, 2019 (SCI-Expanded)
- LIX. **LiFePO₄ thin film deposition onto Ag coated glass by RF magnetron sputtering**
PAT S., HakanYudar H., KORKMAZ Ş., Ozen S., Pat Z.
MATERIALS RESEARCH EXPRESS, vol.5, no.11, 2018 (SCI-Expanded)
- LX. **Cubic BN thin film deposition by a RF magnetron sputtering**
PAT S., Silik E., Musaoglu C., Ozen S., Mohammadigharehbagh R., Yudar H. H., KORKMAZ Ş.
VACUUM, vol.157, pp.31-35, 2018 (SCI-Expanded)
- LXI. **Investigation of the substrate effect for Zr doped ZnO thin film deposition by thermionic vacuum arc technique**

- DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.21, pp.18098-18104, 2018 (SCI-Expanded)
- LXII. **Characterization of Pb-Doped GaN Thin Films Grown by Thermionic Vacuum Arc**
Ozen S., PAT S., KORKMAZ Ş.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.7, pp.3727-3732, 2018 (SCI-Expanded)
- LXIII. **An investigation on the half-cell production for transparent secondary type solid-state batteries**
Ozen S., PAT S., Yudar H. H., KORKMAZ Ş., Pat Z.
VACUUM, vol.153, pp.112-116, 2018 (SCI-Expanded)
- LXIV. **Investigation of the surface, morphological and optical properties of boron-doped ZnO thin films deposited by thermionic vacuum arc technique**
PAT S., Mohammadigharehbagh R., Musaoglu C., Ozen S., KORKMAZ Ş.
MATERIALS RESEARCH EXPRESS, vol.5, no.6, 2018 (SCI-Expanded)
- LXV. **Microstructural, surface and electrochemical properties of the nano layered LiCoO₂ thin film cathode for Li ion battery**
HakanYudar H., PAT S., Ozen S., Mohammadigharehbagh R., Musaoglu C., KORKMAZ Ş., Pat Z.
VACUUM, vol.152, pp.248-251, 2018 (SCI-Expanded)
- LXVI. **Investigation of the structural, surface, optical and electrical properties of the Indium doped Cu_xO thin films deposited by a thermionic vacuum arc**
Musaoglu C., PAT S., Ozen S., KORKMAZ Ş., Mohammadigharehbagh R.
MATERIALS RESEARCH EXPRESS, vol.5, no.3, 2018 (SCI-Expanded)
- LXVII. **The investigation of the Cr doped ZnO thin films deposited by thermionic vacuum arc technique**
Mohammadigharehbagh R., PAT S., Musaoglu C., KORKMAZ Ş., Ozen S.
MATERIALS RESEARCH EXPRESS, vol.5, no.2, 2018 (SCI-Expanded)
- LXVIII. **A Rapid Method for Deposition of Sn-Doped GaN Thin Films on Glass and Polyethylene Terephthalate Substrates**
PAT S., Ozen S., KORKMAZ Ş.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.167-172, 2018 (SCI-Expanded)
- LXIX. **Investigation of the optical properties of the indium-doped ZnO thin films deposited by a thermionic vacuum arc**
Mohammadigharehbagh R., PAT S., Ozen S., Yudar H. H., KORKMAZ Ş.
OPTIK, vol.157, pp.667-674, 2018 (SCI-Expanded)
- LXX. **Optical, surface, and microstructural properties of Li₄Ti₅O₁₂ thin films coated by RF magnetron sputtering**
Yudar H. H., PAT S., KORKMAZ Ş., Ozen S., Pat Z.
PARTICULATE SCIENCE AND TECHNOLOGY, vol.36, no.8, pp.1037-1042, 2018 (SCI-Expanded)
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- I. **Termiyonik Vakum Ark Plazma Uygulanan Polimetilmetakrilat Yüzeylerde Biyofilm Oluşumunun Değerlendirilmesi: Pilot Çalışma**
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- II. **Helyum Plazma Uygulanmış Polimetilmetakrilat Yüzeylerde Candida Albicans Biyofilm Oluşumunun Değerlendirilmesi**
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- III. **Helyum Plazma Uygulanmış Polimetil Metakrilat Yüzeylerde Candida Albicans Biyofilm Oluşumunun Değerlendirilmesi**
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- IV. **Development of Corrosion Resistance of Structural Steel with Nano-silver Coatings**
Topçu İ. B., Uzunömeroğlu A., Pat S.
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- V. **Improvement of Corrosion Potentials of Reinforcements by Using TVA System**
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- VI. **Influence Of Oxygen Effect In Coating Layer On Tensile Bond Strength On Base Material**
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- VII. **Evaluation Of The Effect Of Helium Plasma Surface Modification On The Tensile Bond Strength Of Acrylic Base**
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- VIII. **Termiyonik vakum ark uygulamasının kaide materyalleri üzerine bağlantı dayanımının değerlendirilmesi**
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- IX. **Influence Of Different Argon Plasma Irradiation Time On Shear Bond Strength Of Y-Tzp Zirconia Resin Interface**
AVUKAT E. N., AKAY C., KARAKIŞ D., PAT S.
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- X. **Cytotoxic Evaluation Of Zirconium Oxide Nanoparticles Additive To Acrylic Base Material.**
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- XI. **Physical properties of TiN reactor structural material**
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- XII. **Effect of cold atmospheric plasma application on nano-Tin coated Co-Cr dental alloy**
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- XIII. **Effect of cold atmospheric plasma on collagen membrane surface**
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- XIV. **Some physical properties of deposited ZnO thin films by RF sputter at various concentrations**
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- XV. **Optical bandgap studies on Co doped B2O3 Na2O ZnO V2O5 semiconducting glassy thin films**
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- XVI. **ZnO thin films with reactive sputter at different O2 concentrations and some physical properties**
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- XXI. **Anti-reflective coatings of mineral lenses with thermionic vacuum arc (TVA) technique and investigation of some physical properties**
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