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Education Information

Doctorate, Gebze Technical University, Fen Bilimleri Enst., Fizik, Turkey 1997 - 2002

Postgraduate, Middle East Technical University, Fen Bilimleri Enst., Fizik, Turkey 1994 - 1996

Undergraduate, Middle East Technical University, Fen Edb Fak, Fizik, Turkey 1988 - 1994

Foreign Languages

Arabic, B2 Upper Intermediate

English, C1 Advanced

Research Areas

Physics, Atomic and Molecular Physics, Molecular Properties and Interactions with Photon, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Natural Sciences

Advising Theses

San S. E., Metal ve yarı iletken nanoparçacıkların konjüge polimer bazlı organik ışık yayan diyotların performansına etkisi, Doctorate, S.PIRAVADILI(Student), 2015

San S. E., Side chain liquid crystalline polymers for organic field effect transistors, Postgraduate, Ç.ÇAKIRLAR(Student), 2015

San S. E., Muhtelif metal katkılı ve katkısız ZnO yapıların elektrokimyasal kaplama ile üretimi ve bu yapıların organik güneş hücrelerinde kullanımı, Postgraduate, N.UYANIK(Student), 2014

San S. E., Esnek nitelikli organik güneş hücresi yapımı ve karakterizasyonu, Postgraduate, G.BAYRAM(Student), 2014

San S. E., Monte Carlo yöntemleri ile termotropik sıvı kristal özelliklerinin belirlenmesi, Doctorate, Y.EMÜL(Student), 2014

San S. E., Polimer ışık yayan diyotlarda kararlılığı etkileyen faktörlerin incelenmesi, Postgraduate, N.BABAYİĞİT(Student), 2013

San S. E., Farklı fenilen vinilen türevleri ile organik güneş pili yapımı, Postgraduate, N.TÖRE(Student), 2012

San S. E., Ekit (implant) uygulamaları için geniş bantlı anten analizi ve gerçekleştirilmesi, Postgraduate, F.ZENGİN(Student), 2012

San S. E., Silikon alt taban üzerinde üretilen organik alan etkili transistörler ve karakterizasyonları, Postgraduate, F.ÖNAL(Student), 2011

- San S. E., Organik güneş pillerinin oksijen ortamından yalıtılmasının çalışma ömürlerine etkisinin incelenmesi, Postgraduate, B.TUĞBA(Student), 2011
- San S. E., Katkılı sıvı kristallerin viskoelastik ve elektrooptik özelliklerinin ışık saçılması yöntemiyle incelenmesi ve yapay sinir ağları ile modellenmesi, Doctorate, Ö.POLAT(Student), 2011
- San S. E., İletken polimer tabanlı organik alan etkili transistörlerin manyetik alan altındaki davranışlarının incelenmesi, Postgraduate, S.TUNÇ(Student), 2011
- San S. E., Fulleren ve azo boya katkılı nematik sıvı kristal sistemlerde dielektrik ve optik spektroskopi yöntemleri ile moleküler durulma zamanlarının ve kırılma indisi değişimlerinin incelenmesi, Doctorate, M.OKUTAN(Student), 2010
- San S. E., Ötetik sabit nokta yapımı ve karakterizasyonu, Doctorate, A.DİRİL(Student), 2010
- San S. E., Açık-döngü ve kapalı-döngü interferometrik fiber optik jiroskop (İFOJ) prototipinin tasarımı ve optoelektronik karakterizasyonu, Doctorate, O.ÇELİKEL(Student), 2008
- San S. E., Azo boya ve fulleren(C60) katkılı nematik sıvı kristallerin elektro-optik özelliklerinin incelenmesi, Doctorate, O.KÖYSAL(Student), 2007
- San S. E., Nematik sıvı kristallerin karbon nanotüplerin yönleniminde kullanılması, Postgraduate, B.AKAR(Student), 2006
- San S. E., Reaktör esaslı pozitron demeti ve mikro analiz, Doctorate, S.ÖVÜNÇ(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Breaking the limits of acoustic science: A review of acoustic metamaterials**
Aydın G., SAN S. E.
Materials Science and Engineering: B, vol.305, 2024 (SCI-Expanded)
- II. **Integration of spinel ferrite magnetic nanoparticles into organic solar cells: a review**
El Abboubi M., SAN S. E.
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.294, 2023 (SCI-Expanded)
- III. **Dielectric properties of boron-doped PDMS composites**
Hezam A., Karadogan B., OKUTAN M., SAN S. E., COŞKUN F. M.
BULLETIN OF MATERIALS SCIENCE, vol.44, no.3, 2021 (SCI-Expanded)
- IV. **Fabrication and investigation of P3HT:PCBM bulk heterojunction based organic field effect transistors using dielectric layers of PMMA:Ta2O5 nanocomposites**
Canimkurbey B., Kosemen Z. A., Cakirlar C., San S. E., Yasin M., Berber S., Kosemen A.
MICROELECTRONIC ENGINEERING, vol.180, pp.65-70, 2017 (SCI-Expanded)
- V. **Fabrication and Characterization of P3HT:MR:PCBM Blend Based Organic Phototransistor**
Tauqeer T., Yasin M., San S. E., Rahman H. U., Karimov K. S.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, no.1, pp.22-27, 2017 (SCI-Expanded)
- VI. **Effect of intrinsic polymer properties on the photo sensitive organic field-effect transistors (Photo-OFETs)**
Kosemen Z. A., Kosemen A., Ozturk S., Canimkurbey B., San S. E., Yerli Y., Tunc A. V.
MICROELECTRONIC ENGINEERING, vol.161, pp.36-42, 2016 (SCI-Expanded)
- VII. **Fe doped TiO2 thin film as electron selective layer for inverted solar cells**
Kosemen A., Kosemen Z. A., Canimkubey B., Erkovan M., Basarir F., San S. E., Ornek O., Tunc A. V.
SOLAR ENERGY, vol.132, pp.511-517, 2016 (SCI-Expanded)
- VIII. **A novel PLED architecture containing biologically synthesized gold nanoparticles and ultra thin silver layer**
Mucur S. P., TEKİN E., San S. E., Duygulu O., Ozturk H. U., Utkan G., Denizci A. A.
OPTICAL MATERIALS, vol.47, pp.297-303, 2015 (SCI-Expanded)
- IX. **Synthesis and electrical characterization of Graphene Oxide films**
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THIN SOLID FILMS, vol.590, pp.118-123, 2015 (SCI-Expanded)
- X. **PENTACENE-BASED ORGANIC THIN FILM TRANSISTOR WITH SiO2 GATE DIELECTRIC**

Demir A., Bagci S., San S. E., Dogruyol Z.

SURFACE REVIEW AND LETTERS, vol.22, no.3, 2015 (SCI-Expanded)

- XI. **A compare of electrical characteristics in Al/p-Si (MS) and Al/C₂₀H₁₂/p-Si (MPS) type diodes using current-voltage (I-V) and capacitance-voltage (C-V) measurements**
Bilkan C., Zeyrek S., San S. E., Altindal S.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.32, pp.137-144, 2015 (SCI-Expanded)
- XII. **Polymer-Fullerene Bulk Heterojunction-Based Strain-Sensitive Flexible Organic Field-Effect Transistor**
Yasin M., TAUQEER T., Rahman H. U., Karimov K. S., San S. E., Tunc A. V.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.40, no.1, pp.257-262, 2015 (SCI-Expanded)
- XIII. **Electrochemical Growth of Pd Doped ZnO Nanorods**
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JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.4, 2015 (SCI-Expanded)
- XIV. **P3HT:PCBM blend based photo organic field effect transistor**
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MICROELECTRONIC ENGINEERING, vol.130, pp.13-17, 2014 (SCI-Expanded)
- XV. **Investigating electro-optical properties of a nematic liquid crystal cell with planar anchoring boundary condition for various thicknesses: A Monte Carlo study**
Emul Y., Polat O., San S. E., Kayacan O., Özbek H.
OPTICAL MATERIALS, vol.36, no.8, pp.1373-1377, 2014 (SCI-Expanded)
- XVI. **Enhancing the Device Performance of a Blue Light-Emitting Copolymer Using CdSe/ZnS Quantum Dots**
Mucur S. P., Lenkeit D., Kanelidis I., San S. E., Holder E., Tekin E.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.52, no.2, pp.147-156, 2014 (SCI-Expanded)
- XVII. **An efficient organic inverted solar cell with AnE-PVstat:PCBM active layer and V2O5/Al anode layer**
Kosemen A., Tore N., Parlak E. A., Kosemen Z. A., Ulbricht C., Usluer O., Egbe D. A. M., Yerli Y., San S. E.
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- XVIII. **Preparation and characterization of CuI/PVA-PEDOT:PSS core-shell for photovoltaic application**
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OPTIK, vol.125, no.9, pp.2009-2016, 2014 (SCI-Expanded)
- XIX. **Electrical and dielectric properties of Al/p-Si and Al/perylene/p-Si type diodes in a wide frequency range**
Kaya A., Zeyrek S., San S. E., Altindal S.
CHINESE PHYSICS B, vol.23, no.1, 2014 (SCI-Expanded)
- XX. **Electrical and optical properties of chalcedony and striped chalcedony**
Cetin A., OKUTAN M., İÇELLİ O., YALÇIN Z., San S. E., Kibar R., Pesen E.
VACUUM, vol.97, pp.75-80, 2013 (SCI-Expanded)
- XXI. **Use of side chain thiophene containing copolymer as a non-ionic gel-dielectric material for sandwich OFET assembly**
Sengez B., Dogruyol Z., San S. E., Kosemen A., Yilmaz F., OKUTAN M., Yerli Y., Demir A., Basaran E.
MICROELECTRONIC ENGINEERING, vol.103, pp.111-117, 2013 (SCI-Expanded)
- XXII. **Enhancing effects of nanoparticles on polymer-OLED performances**
Mucur S. P., Tumay T. A., San S. E., Tekin E.
JOURNAL OF NANOPARTICLE RESEARCH, vol.14, no.10, 2012 (SCI-Expanded)
- XXIII. **Effect of blend ratio on poly(p-phenylene-ethynylene)-alt-poly (p-phenylene-vinylene) polymer solar cell**
Tore N., Parlak E. A., Usluer O., Egbe D. A. M., San S. E., Aydogan P.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.104, pp.39-44, 2012 (SCI-Expanded)
- XXIV. **Influence of molecular weight on the short-channel effect in polymer-based field-effect transistors**
Tunc A. V., Ecker B., Dogruyol Z., Juechter S., Ugur A. L., ERDOĞMUŞ A., San S. E., Parisi J., von Hauff E.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.50, no.2, pp.117-124, 2012 (SCI-Expanded)

- XXV. **Applied electric field effect on light-scattering birefringence of dye-doped liquid crystal molecule and consistent neural network empirical physical formula construction for scattering intensities**
Polat O., YILDIZ N., San S. E.
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YILDIZ N., San S. E., Polat O.
OPTICS COMMUNICATIONS, vol.284, no.8, pp.2173-2181, 2011 (SCI-Expanded)
- XXVII. **Temperature activated ionic conductivity in gallium and indium phthalocyanines**
San S. E., Okutan M., Nyokong T., Durmus M., Ozturk B.
POLYHEDRON, vol.30, no.6, pp.1023-1026, 2011 (SCI-Expanded)
- XXVIII. **Light-scattering determination of visco-elastic and electro-optic parameters of azo and anthraquinone dye-doped liquid crystal molecules and consistent neural network empirical physical formula construction for scattering intensities**
YILDIZ N., Polat O., San S. E., Kaya N.
JOURNAL OF MOLECULAR STRUCTURE, vol.991, pp.127-135, 2011 (SCI-Expanded)
- XXIX. **TiO₂-Based Organic Hybrid Solar Cells with Mn⁺² Doping**
Alparslan Z., Kosemen A., Ornek O., Yerli Y., San S. E.
INTERNATIONAL JOURNAL OF PHOTOENERGY, pp.1-8, 2011 (SCI-Expanded)
- XXX. **Electrical Properties of Zn-Phthalocyanine and Poly (3-hexylthiophene) Doped Nematic Liquid Crystal**
Karakus Y., OKUTAN M., Kosemen A., San S. E., Alpaslan Z., Demir A.
JOURNAL OF NANOMATERIALS, 2011 (SCI-Expanded)
- XXXI. **A novel field effect transistor with dielectric polymer gel**
Kosemen A., San S. E., Okutan M., Dogruyol Z., Demir A., Yerli Y., Sengez B., Basaran E., Yilmaz F.
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- XXXII. **Nonlinear experimental dye-doped nematic liquid crystal optical transmission spectra estimated by neural network empirical physical formulas**
YILDIZ N., San S. E., Koysal O.
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- XXXIII. **A novel method to produce nonlinear empirical physical formulas for experimental nonlinear electro-optical responses of doped nematic liquid crystals: Feedforward neural network approach**
YILDIZ N., San S. E., Okutan M., Kaya H.
PHYSICA B-CONDENSED MATTER, vol.405, no.8, pp.2049-2056, 2010 (SCI-Expanded)
- XXXIV. **Electrochemically grown ZnO nanorods for hybrid solar cell applications**
Hames Y., Alpaslan Z., Koesemen A., San S. E., Yerli Y.
SOLAR ENERGY, vol.84, no.3, pp.426-431, 2010 (SCI-Expanded)
- XXXV. **The electrical properties of a fullerene and CI Acid Red 2 (methyl red) doped E7 nematic liquid crystal**
Okutan M., San S. E., Koysal O., Senturk E.
DYES AND PIGMENTS, vol.84, no.3, pp.209-212, 2010 (SCI-Expanded)
- XXXVI. **Temperature dependency of impedance spectroscopy behaviors in side-chain liquid crystalline polymer**
Okutan M., Koysal O., San S. E., Senturk E.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.355, pp.2674-2677, 2009 (SCI-Expanded)
- XXXVII. **An experimental optimization study for concentration and laser power effects in the fullerene-C-60 and azo dye doped guest-host liquid crystal systems**
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- XXXVIII. **Dual-Type Electrochromic Device with Single Wall Carbon Nano Tube Employment in Gel Electrolyte**
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- POLYMER ENGINEERING AND SCIENCE, vol.49, no.7, pp.1311-1315, 2009 (SCI-Expanded)
- XXXIX. **Construction of all digital closed-loop interferometric fiber optic gyroscope with erbium doped fiber amplifier**
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- XL. **Diffraction efficiency and I-V characteristics of metal-free phthalocyanine doped nematic liquid crystals**
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MATERIALS CHEMISTRY AND PHYSICS, vol.114, pp.815-820, 2009 (SCI-Expanded)
- XLI. **Electro-optical characteristics of photoinduced isomerization in 2,2'-azobis[5,6-bis(dodecyloxy)quinoxaline]-azo-dye-doped nematic liquid crystals**
Koysal O., Okutan M., San S. E., Dincer F., Ahsen V., Durmus M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.70, no.2, pp.266-271, 2009 (SCI-Expanded)
- XLII. **Design details and characterization of all digital closed-loop interferometric fiber optic gyroscope with superluminescent light emitting diode**
Celikel O., San S. E.
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- XLIII. **Establishment of All Digital Closed-Loop Interferometric Fiber-Optic Gyroscope and Scale Factor Comparison for Open-Loop and All Digital Closed-Loop Configurations**
Celikel O., San S. E.
IEEE SENSORS JOURNAL, vol.9, pp.176-186, 2009 (SCI-Expanded)
- XLIV. **Electrical Properties of Mesomorphic Phthalocyanine-Carbon Nanotube Composites**
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- XLV. **Effect on response time and diffraction efficiency of co-usage azo dye and carbon nanoparticle in nematic liquid crystal**
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- XLVI. **Molecular orientation and dielectric anisotropy properties of 4-cyano-4'-n-heptylbiphenyl-TiO₂ liquid crystal composite**
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- XLVII. **Debye type dielectric relaxation in carbon nano-balls' and 4-DMAABCA acid doped E7 coded nematic liquid crystal**
Senturk E., Okutan M., San S. E., Koysal O.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.354, no.30, pp.3525-3528, 2008 (SCI-Expanded)
- XLVIII. **Molecular orientation and photorefractive effects in single-wall carbon nanotubes doped nitrile-ester mixture liquid crystals**
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- XLIX. **Carbon nanoparticles in nematic liquid crystals**
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- L. **Diffraction efficiency and conductivity enhancement of nematic liquid crystals by doping star-like fullerenes**
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- LI. **Dielectric properties of thiophene based conducting polymers**
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- LII. **Temperature dependency of phase transitions in polymer-dispersed nematic liquid crystal mediums**

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PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.377, no.2, pp.523-530, 2007 (SCI-Expanded)

- LIII. **Temperature dependency of electrical behaviors in single walled carbon nanotube/conducting polymer composites**
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- LIV. **Effect of an azo dye (DR1) on the dielectric parameters of a nematic liquid crystal system**
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- LV. **Molecular reorientation based diffraction in a hybrid liquid crystal system applicable for two different laser sources simultaneously**
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- LVII. **Diffraction efficiency and dielectric relaxation properties of nickel phthalocyanine doped nematic liquid crystal**
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- LVIII. **Magnetically steered liquid crystal-nanotube switch**
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- LIX. **Impedance spectroscopy and dielectric anisotropy-type analysis in dye-doped nematic liquid crystals having different preliminary orientations**
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- LX. **Laser-induced dielectric anisotropy of a hybrid liquid crystal composite made up of methyl red and fullerene C60**
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- LXI. **Dielectric properties of laser-induced conditions in a hybrid composite made by doping a side-chain liquid crystalline polymer**
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- LXII. **A novel hybrid composite employing rhodamine 6G and fullerene C60 under the same liquid crystal structure for dynamic holography**
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- LXIII. **Determination of phase transition from nematic to isotropic state in carbon nano-balls' doped nematic liquid crystals by electrical conductivity-dielectric measurements**
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- LXIV. **Investigation of refractive index dispersion and electrical properties in carbon nano-balls' doped nematic Liquid crystals**
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- LXV. **Dielectric spectroscopy analysis of molecular reorientation in dye doped nematic liquid crystals having different preliminary orientation**

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- LXVI. **Detector based calibration of solar UV radiometers in laboratory environments with high accuracy**
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- LXVII. **The influence of gamma radiation on the electro-optical characteristics of CR-39 polymer**
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- LXVIII. **Molecular reorientation based diffraction in dihydropyridin doped nematic liquid crystal film**
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- LXIX. **Dielectric properties of a side-chain liquid crystalline polymer under laser induced circumstances**
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- LXX. **Determination of the refractive index dispersion of thick films by continuous wavelet transform**
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- LXXI. **Holographic recording study of a hybrid liquid crystal system doped with dye and fullerene**
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- LXXII. **Simultaneous determination of refractive index and thickness of multilayer dielectric films by discrete Fourier transform**
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- LXXIII. **CdO/Cu₂O solar cells by chemical deposition**
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Supported Projects

San S. E., TUBITAK Project, İletken Polimer Yarıiletken Malzemelerle İnce Film Transistörlerin Üretimi ve Elektriksel Özelliklerinin İncelenmesi, 2009 - 2011

San S. E., TUBITAK Project, Polimer ve sıvı kristallerin elektronik ve optik özelliklerinin geniş sıcaklık aralığında karakterizasyonu, 2004 - 2006

Metrics

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Citation (WoS): 1169

Citation (Scopus): 1237

H-Index (WoS): 20

H-Index (Scopus): 19

Non Academic Experience

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