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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik, Türkiye 1994 - 1999

Yüksek Lisans, Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1991 - 1993

Araştırma Alanları

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Yoğun maddede elektronik taşınım, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Yıldız Teknik Üniversitesi, Fen-Ed. Fakültesi, Fizik, 2012 - Devam Ediyor

Doç.Dr., Marmara Üniversitesi, Fen-Ed. Fakültesi, Fizik, 2007 - 2012

Yrd.Doç.Dr., Marmara Üniversitesi, Fen-Ed. Fakültesi, Fizik, 2001 - 2007

Öğretim Görevlisi Dr., Marmara Üniversitesi, Fen-Ed. Fakültesi, Fizik, 1999 - 2001

Araştırma Görevlisi, Marmara Üniversitesi, Fen-Ed. Fakültesi, Fizik, 1996 - 1999

Meslek Uzmanı, TÜBİTAK, Malzeme Enstitüsü, Elektronik , 1990 - 1996

Akademik İdari Deneyim

Bölüm Başkanı, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2018 - Devam Ediyor

Senato Üyesi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2019 - 2022

Doçentlik Komisyon Üyeliği, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2018 - 2021

Verdiği Dersler

Klasik Mekanik, Lisans, 2016 - 2017

Yönetilen Tezler

Altındal A., Organik tabanlı gaz sensörlerinde adsorpsiyon kinetiğinin incelenmesi, Yüksek Lisans, O.ÖZDEMİR(Öğrenci), 2016

ALTINDAL A., Organik Alan Etkili Transistör Üretimi ve Karakterizasyonu, Yüksek Lisans, H.Gök(Öğrenci), 2016

ALTINDAL A., Hava Kirliliğine Neden Olan Gazların Algılanmasına Yönelik Sensörlerin Geliştirilmesi, Yüksek Lisans,

Ş.Altın(Öğrenci), 2016

ALTINDAL A., Sıvılardaki Bakterilerin Algılanması için Biyosensörlerin Geliştirilmesi, Yüksek Lisans, M.Ağar(Öğrenci), 2016

Altındal A., Organik tabanlı güneş pili üretimi ve karakterizasyonu, Yüksek Lisans, S.SAJJAD(Öğrenci), 2013

Altındal A., Metal-oksit ara tabakalı myy yapıların dielektrik özellikleri, Yüksek Lisans, M.COŞKUN(Öğrenci), 2011

Altındal A., Organik tabanlı güneş pillerinin üretimi ve karakterizasyonu , Yüksek Lisans, Ö.YAĞCI(Öğrenci), 2011

Altındal A., ZrO₂ nano parçacıklarının üretimi, dielektrik ve optik özelliklerinin belirlenmesi , Yüksek Lisans, A.BANU(Öğrenci), 2011

Altındal A., Organik ışık yayan diyotların imali ve karakterizasyonu , Yüksek Lisans, G.Kösoğlu(Öğrenci), 2010

Altındal A., Sol-Jel metoduyla hazırlanan metaloksit filmlerin yapısal ve elektriksel karakterizasyonu, Yüksek Lisans, D.Taşkın(Öğrenci), 2006

Altındal A., Ftalosyanin ince filmlerin elektriksel ve optik özelliklerinin incelenmesi , Yüksek Lisans, Y.Aktaş(Öğrenci), 2006

Jüri Üyelikleri

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Hacettepe Üniversitesi, Eylül, 2022

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Gebze Teknik Üniversitesi, Ağustos, 2022

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Gebze Teknik Üniversitesi, Ağustos, 2022

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Gebze Teknik Üniversitesi, Ağustos, 2022

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, İstanbul Teknik Üniversitesi, Mayıs, 2022

Bilirkişi Kurulu, Bilirkişi Kurulu, İstanbul Üniversitesi, Ocak, 2022

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, İstanbul Üniversitesi, Kasım, 2021

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Yıldız Teknik Üniversitesi, Haziran, 2021

Bilirkişi Kurulu, Bilirkişi Kurulu, Tekirdağ Namık Kemal Üniversitesi, Mayıs, 2021

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Marmara Üniversitesi, Haziran, 2020

Doçentlik Sınavı, Doçentlik Sınavı, Atatürk Üniversitesi, Şubat, 2013

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Novel reduced graphene oxide/zinc phthalocyanine and reduced graphene oxide/cobalt phthalocyanine hybrids as high sensitivity room temperature volatile organic compound gas sensors**
YABAŞ E., Bicer E., ALTINDAL A.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1271, 2023 (SCI-Expanded)
- II. **Manipulation of magnetic anisotropy by voltage induced strain in Co₂MnAl/PMN-PT heterostructure**
Ozdemir O., Altındal A., Arslan L. C.
JOURNAL OF APPLIED PHYSICS, cilt.132, sa.10, 2022 (SCI-Expanded)
- III. **Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting materials for solution-processed perovskite solar cells**
Celik G. G., ŞAHİN A. N., Lafzi F., SARAÇOĞLU N., ALTINDAL A., Gurek A. G., Atilla D.
DALTON TRANSACTIONS, cilt.51, ss.9385-9396, 2022 (SCI-Expanded)
- IV. **Nitrate Ion Sensing Properties of Peripheral 3,4,5-Trimethoxyphenoxy and Chlorine Substituted Metallo and Metal-free Phthalocyanines**
Senturk C. B., ŞAHİN A. N., ÇETİN A., ALTINDAL A., ODABAŞ Z.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.32, ss.1436-1447, 2022 (SCI-Expanded)
- V. **Electrochemical, spectroelectrochemical, electrocatalytic oxygen reducing, and heavy metal ion sensing properties of novel tetrakis-[4-((2, 8-bis (trifluoromethyl) quinolin-4-yl) oxyl)] substituted**

metallophthalocyanines

Daban N., ORMAN E. B., Meyanci L., ALTINDAL A., ÖZER M., ÖZKAYA A. R.
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- VI. **Synthesis and photovoltaic properties of novel ferrocene-substituted metallophthalocyanines**
ÖZDEMİR M., Koksoy B., Kuruca H., ALTINDAL A., DURMUŞ M., KOYUNCU S., YALÇIN B., Bulut M.
DALTON TRANSACTIONS, cilt.51, ss.570-579, 2022 (SCI-Expanded)
- VII. **Beta irradiation effects on impedance spectra of electrospun PEDOT:PSS nanofibres**
Urfa Y., ALTINDAL A.
BULLETIN OF MATERIALS SCIENCE, cilt.44, sa.3, 2021 (SCI-Expanded)
- VIII. **Gamma ray irradiation dose dependent methanol sensing with ZnO nanoparticles**
Urfa Y., ÇORUMLU V., ALTINDAL A.
MATERIALS CHEMISTRY AND PHYSICS, cilt.264, 2021 (SCI-Expanded)
- IX. **Photosensitive field effect transistor based on metallo-phthalocyanines containing (4-pentylphenyl) ethynyl moieties**
Yenilmez H. Y., ŞAHİN A. N., ALTINDAL A., Bayır Z.
Synthetic Metals, cilt.273, 2021 (SCI-Expanded)
- X. **Unsymmetrical Zinc Phthalocyanines Containing Thiophene and Amine Groups As Donor for Bulk Heterojunction Solar Cells**
KESER KARAOĞLAN G., Kutlu Ö., ALTINDAL A.
Turkish Journal of Chemistry, cilt.45, sa.3, ss.694-703, 2021 (SCI-Expanded)
- XI. **A series of asymmetric zinc (II) phthalocyanines containing fluoro and alkynyl groups: Synthesis and examination of humidity sensing performance by using QCM based sensor**
Ahmetali E., Pekbelgin Karaoğlu H. R., Urfa Y., ALTINDAL A., Koçak M.
MATERIALS CHEMISTRY AND PHYSICS, cilt.254, 2020 (SCI-Expanded)
- XII. **Investigation of the photoconductive properties of thiophene substituted metallo-phthalocyanines**
Kumral E., Yenilmez H. Y., Albayrak S., ŞAHİN A. N., ALTINDAL A., Bayır Z. A.
Dalton transactions (Cambridge, England : 2003), cilt.49, sa.27, ss.9385-9392, 2020 (SCI-Expanded)
- XIII. **Synthesis, characterization, OFET, and DFT study of the novel ball-type metallophthalocyanines bridged with four diaminopyrimidine-dithiol**
Molla F., Yazici A., Salcuki N. A., ALTINDAL A., SALİH B., Bekaroglu O.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.24, ss.662-674, 2020 (SCI-Expanded)
- XIV. **Thiazole-substituted non-symmetrical metallophthalocyanines: synthesis, characterization, electrochemical and heavy metal ion sensing properties**
Beduoglu A., Sevim A. M., KOCA A., ALTINDAL A., Bayır Z.
NEW JOURNAL OF CHEMISTRY, cilt.44, sa.14, ss.5201-5210, 2020 (SCI-Expanded)
- XV. **Non-peripherally tetra substituted phthalocyanines bearing carboxylic acid anchoring groups as photosensitizer for high efficient dye-sensitized solar cells**
Gördük S., Altındal A.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1204, 2020 (SCI-Expanded)
- XVI. **One step facile in-situ photochemical synthesis of hollow, doughnut-like ZnO nanoparticles and their alcohol vapor sensing properties**
Kirtay H., Omur B., ALTINDAL A., ARSU N.
Materials Research Bulletin, cilt.122, 2020 (SCI-Expanded)
- XVII. **Synthesis, characterization and ethanol sensing properties of peripheral and non-peripheral tetrakis-(3,6-dihexyl-7-oxy-4-methylcoumarin)substituted zinc(II), cobalt(II), and copper(II) phthalocyanines**
Artuc G. O., ALTINDAL A., Eran B., Bulut M.
DYES AND PIGMENTS, cilt.171, 2019 (SCI-Expanded)
- XVIII. **Ethanol sensing with pure and boric acid doped electrospun CuInS₂ nanofibers in the presence of relative humidity**
YAĞCI Ö., Arat R., Sarier N., Omur B. C., ALTINDAL A.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.104, 2019 (SCI-Expanded)

- XIX. **Peripherally tetra-substituted metallophthalocyanines bearing carboxylic acid groups for efficient dye sensitized solar cells**
GÖRDÜK S., ALTINDAL A.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1196, ss.747-753, 2019 (SCI-Expanded)
- XX. **Sensing alcohol vapours with novel unsymmetrically substituted metallophthalocyanines**
Polat M. P., Akyuz D., Yenilmez H. Y., KOCA A., ALTINDAL A., Bayir Z. A.
DALTON TRANSACTIONS, cilt.48, sa.25, ss.9194-9204, 2019 (SCI-Expanded)
- XXI. **In-situ photochemical synthesis of Au nanoparticles in polymer matrix with one-component thioxanthone disulfide for detection of benzene, toluene and xylene vapours**
ÇINKO T., KOYUNCU U., OMUR B., ALTINDAL A., ARSU N.
PROGRESS IN ORGANIC COATINGS, cilt.132, ss.125-131, 2019 (SCI-Expanded)
- XXII. **Electric field assisted deposition of E. coli bacteria into the pores of porous silicon**
Güler S., Oruç Ç., Altındal A.
Journal of Microbiological Methods, cilt.161, ss.96-101, 2019 (SCI-Expanded)
- XXIII. **Synthesis, characterization and photovoltaic behaviours of peripheral and non-peripheral tetra-[4-(4-octylpiperazin-1-yl)phenoxy] substituted zinc(II), cobalt(II), copper(II) and indium(III) phthalocyanines**
ARTUC G. O., ALTINDAL A., ERAN B., Bulut M.
INORGANICA CHIMICA ACTA, cilt.490, ss.35-44, 2019 (SCI-Expanded)
- XXIV. **Electrochemical, photovoltaic and DFT studies on hybrid materials based on supramolecular self-assembly of a ditopic twisted perylene diimide with square-planar platinum(II)- and/or palladium(II)-2,2':6',2''-terpyridyl complex ions**
Buyukeksi S. I., ORMAN E. B., Acar N., ALTINDAL A., ÖZKAYA A. R., Sengul A.
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- XXV. **Synthesis, characterization and VOCs adsorption kinetics of diethylstilbestrol-substituted metallophthalocyanines**
Kaki E., Gogsu N., ALTINDAL A., SALİH B., Bekaroglu O.
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- XXVI. **Synthesis, characterization and ethanol sensing properties of carboxylic acid-terminated naphthoxy substituted phthalocyanines**
ISIK S. N., KARAÖGLAN G., OMUR B., ALTINDAL A., KOSE G.
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- XXVII. **pi-Extended hexadeca-substituted cobalt phthalocyanine as an active layer for organic field-effect transistors**
Nar I., Atsay A., Karaoglu H. P., ALTINDAL A., Hamuryudan E.
DALTON TRANSACTIONS, cilt.47, sa.42, ss.15017-15023, 2018 (SCI-Expanded)
- XXVIII. **Metallophthalocyanines bearing four 3-(pyrrol-1-yl)phenoxy units as photosensitizer for dye-sensitized solar cells**
Polat M. P., Yenilmez H. Y., KOCA A., ALTINDAL A., Bayir Z. A.
DYES AND PIGMENTS, cilt.156, ss.267-275, 2018 (SCI-Expanded)
- XXIX. **Novel tetrakis 4-(hydroxymethyl)-2,6-dimethoxyphenoxy substituted metallophthalocyanines: Synthesis, electrochemical redox, electrocatalytic oxygen reducing, and volatile organic compounds sensing and adsorption properties**
Gunay I., ORMAN E. B., ALTINDAL A., SALİH B., ÖZER M., ÖZKAYA A. R.
DYES AND PIGMENTS, cilt.154, ss.172-187, 2018 (SCI-Expanded)
- XXX. **Ferrocenyl Phthalocyanine as Donor in Non-Poly(3-hexylthiophen-2,5-diyl) Bulk Heterojunction Solar Cell**
Nar I., Atsay A., ALTINDAL A., Hamuryudan E., Koçak M., Guel A.
CHEMISTRY-A EUROPEAN JOURNAL, cilt.24, sa.27, ss.6946-6949, 2018 (SCI-Expanded)
- XXXI. **Spectroscopic, electrochemical and photovoltaic properties of Pt(II) and Pd(II) complexes of a**

chelating 1,10-phenanthroline appended perylene diimide

Buyukeksi S. I., Sengul A., ERDÖNMEZ S., ALTINDAL A., ORMAN E. B., ÖZKAYA A. R.

DALTON TRANSACTIONS, cilt.47, sa.8, ss.2549-2560, 2018 (SCI-Expanded)

- XXXII. **o-Carborane, Ferrocene, and Phthalocyanine Triad for High-Mobility Organic Field-Effect Transistors**
Nar I., Atsay A., ALTINDAL A., Hamuryudan E.
INORGANIC CHEMISTRY, cilt.57, sa.4, ss.2199-2208, 2018 (SCI-Expanded)
- XXXIII. **Comparative study of I-V methods to extract Au/FePc/p-Si Schottky barrier diode parameters**
ORUÇ Ç., ALTINDAL A.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.124, sa.1, 2018 (SCI-Expanded)
- XXXIV. **Toluene vapor sensing characteristics of novel copper(II), indium(III), mono-lutetium(III) and tin(IV) phthalocyanines substituted with 2,6-dimethoxyphenoxy bioactive moieties**
PIŞKİN M., CAN N., ODABAŞ Z., ALTINDAL A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.22, ss.189-197, 2018 (SCI-Expanded)
- XXXV. **Structural, spectroscopic and passivation properties of a novel binuclear clamshell-type zinc(II) phthalocyanine as gate dielectric for OFET**
Buyukeksi S. I., ALTINDAL A., Acar N., Sengul A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.22, ss.64-76, 2018 (SCI-Expanded)
- XXXVI. **Bridged oxide nanowire device fabrication using single step metal catalyst free thermal evaporation**
COŞKUN M., OMBABA M. M., DUMLUDAĞ F., ALTINDAL A., ISLAM M. S.
RSC ADVANCES, cilt.8, sa.19, ss.10294-10301, 2018 (SCI-Expanded)
- XXXVII. **Synthesis, characterization and OFET property of four diaminouracil bridged novel ball-type phthalocyanines**
Yazici A., Avci A., ALTINDAL A., SALİH B., Bekaroglu O.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.22, ss.149-156, 2018 (SCI-Expanded)
- XXXVIII. **Synthesis of peripherally tetra-substituted phthalocyanines and their applications in Schottky barrier diodes**
Gördük S., Koyun Ö., Avciata O., Altındal A., Avciata U.
Journal of Chemistry, cilt.2017, ss.1-9, 2017 (SCI-Expanded)
- XXXIX. **Structural and dielectric properties of CuO nanoparticles**
ORUÇ Ç., ALTINDAL A.
CERAMICS INTERNATIONAL, cilt.43, sa.14, ss.10708-10714, 2017 (SCI-Expanded)
- XL. **Electrochemical and photovoltaic studies on water soluble triads: Metallosupramolecular self-assembly of ditopic bis(imidazole) perylene diimide with platinum(II)-, and palladium(II)-2,2':6',2''-terpyridyl complex ions**
Buyukeksi S. I., ORMAN E. B., Sengul A., ALTINDAL A., ÖZKAYA A. R.
DYES AND PIGMENTS, cilt.144, ss.190-202, 2017 (SCI-Expanded)
- XLI. **Characterization of metal (Ag,Au)/phthalocyanine thin film/semiconductor structures by impedance spectroscopy technique**
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THIN SOLID FILMS, cilt.636, ss.765-772, 2017 (SCI-Expanded)
- XLII. **Synthesis, characterization and partition coefficients for VOC vapor adsorption onto novel pyridine derivatives Co(II) phthalocyanines**
Mizrak B., ALTINDAL A., ABDURRAHMANOĞLU Ş.
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- XLIII. **Electrochemical, spectroelectrochemical, and dielectric properties of metallophthalocyanines bearing redox active cobalt and manganese metal centres**
Uzunmehmetoglu H. Z., Yenilmez H. Y., Kaya K., KOCA A., ALTINDAL A., Bayir Z. A.
INORGANICA CHIMICA ACTA, cilt.459, ss.51-62, 2017 (SCI-Expanded)
- XLIV. **Conduction and dielectric relaxation studies on substituted iron(II) phthalocyanine thin film**
Omur B., CAN N., ALTINDAL A.
MATERIALS CHEMISTRY AND PHYSICS, cilt.186, ss.438-445, 2017 (SCI-Expanded)

- XLV. **Kinetic Studies of the Adsorption of Chlorinated Hydrocarbons Onto Phthalocyanine Thin Film**
MISIRLIOGLU B., OZDEMIR O., ALTINDAL A.
IEEE SENSORS JOURNAL, cilt.17, sa.1, ss.121-126, 2017 (SCI-Expanded)
- XLVI. **Modeling of heavy metal ion adsorption isotherms onto metallophthalocyanine film**
CAN N., Omur B., ALTINDAL A.
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- XLVII. **Synthesis, characterization and metal ion sensing properties of novel pyridone derivatives phthalocyanines**
Mizrak B., Agar M., Altindal A., ABDURRAHMANOĞLU Ş.
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- XLVIII. **Novel 4,4' -{(diphenylmethylene) bis(4,1-phenylene)bis(oxy))-bridged ball-type phthalocyanines: Electrochemical, electrocatalytic oxygen reducing and heavy metals ions sensing properties**
Dogan E., ÖZER M., ALTINDAL A., ÖZKAYA A. R., SALİH B., Bekaroglu O.
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- XLIX. **Highly soluble tetrasubstituted lanthanide bis-phthalocyanines; synthesis, characterization, electrical properties and aggregation studies**
Bilgicli A. T., Günsel A., Kandaz M., ALTINDAL A., Comert H.
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- L. **Investigation on Aging Mechanism of Polyester Under Combined Stresses**
CAN N., ARAS F., ALEKPEROV V. A., ALTINDAL A.
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- LI. **Novel indium(III) phthalocyanines; synthesis, photophysical and humidity sensing properties**
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- LII. **Partition coefficient-Lewis basicity correlation in four dioxycyclobutenedion-bridged novel ball-type phthalocyanines**
Yazici A., Dalbul N., ALTINDAL A., SALİH B., Bekaroglu O.
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- LIII. **Highly efficient dye-sensitized solar cells based on metal-free and copper(II) phthalocyanine bearing 2-phenylphenoxy moiety**
Ali H. E. A., ALTINDAL A., ALTUN S., ODABAŞ Z.
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- LIV. **Double-decker sensor phthalocyanines functionalized with 1-hydroxyhexane-3-ylthio moieties; synthesis, characterization, electrical properties and H- or J- type aggregation studies**
Bilgicli A. T., Günsel A., Kandaz M., ALTINDAL A., Comert H.
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- LV. **Synthesis and characterization, electrical and gas sensing properties of N,N' -bis(salicylidene)-1,2-phenyldiamine substituted novel mono and ball-type metallo phthalocyanines**
Yazici A., Sarcicek B., ALTINDAL A., SALİH B., Bekaroglu O.
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- LVI. **Influence of humidity on kinetics of xylene adsorption onto ball-type hexanuclear metallophthalocyanine thin film**
Altın S., DUMLUDAĞ F., ORUÇ Ç., ALTINDAL A.
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- LVII. **A conformationally stressed novel ball-type perylenediimide appended zinc(II) phthalocyanine hybrid: spectroelectrochemical, electrocolorimetric and photovoltaic properties**
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- LVIII. **Electrochemical, Electrocatalytic Dioxygen Reducing and Dielectric Relaxation Properties of Non-Peripheral Tetra-2,3-dihydro-1H-inden-5-yloxy Substituted Phthalocyanines**
ORMAN E. B., ALTUN S., ODABAŞ Z., ALTINDAL A., ÖZKAYA A. R.

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- LIX. **Synthesis, characterization, conduction, and dielectric properties of tetra tert-butylsulfanyl substituted phthalocyanines**
Kaipova S., Dincer H., ALTINDAL A.
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- LX. **Gas sensing and electrochemical properties of tetra and octa 2H-chromen-2-one substituted iron(II) phthalocyanines**
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- LXI. **Synthesis of novel azo-bridged phthalocyanines and their toluene vapour sensing properties**
Sahin S., ALTUN S., ALTINDAL A., ODABAŞ Z.
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- LXII. **Microwave-assisted synthesis of novel non-peripherally substituted metallophthalocyanines and their sensing behaviour for a broad range of Lewis bases**
Duruk E. G., Yenilmez H. Y., ALTINDAL A., Bayir Z. A.
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- LXIII. **Dielectric properties and electronic absorption: a comparison of novel azo- and oxo-bridged phthalocyanines**
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Metrikler

Yayın: 201

Atıf (WoS): 2367

Atıf (Scopus): 2305

H-İndeks (WoS): 28

H-İndeks (Scopus): 27

Akademi Dışı Deneyim

TÜBİTAK, TUBİTAK, TUBİTAK