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International Researcher IDs

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Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Natural Sciences

Academic Positions

Associate Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik, 2018 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik, 2013 - 2018

Academic and Administrative Experience

Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik, 2013 - Continues

Courses

Postgraduate

Biyosensörler: Genel İlkeler ve Uygulamalar, Postgraduate, 2013 - 2014

Biyofizik, Postgraduate, 2013 - 2014

Journal articles indexed in SCI, SSCI, and AHCI

- I. **A macrocyclic tetra-undecyl calix[4]resorcinarene thin film receptor for chemical vapour sensor applications**
ŞEN S., Davis F., Capan R., ÖZBEK Z., Ozel M. E., Stanciu G. A.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.98, no.3-4, pp.237-247, 2020 (SCI-Expanded)
- II. **Electrical properties of alternating acid and amino substituted calixarene Langmuir-Blodgett thin films**
ÖZBEK Z., Davis F., ÇAPAN R.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.136, 2020 (SCI-Expanded)

- III. **Preparation of Langmuir-Blodgett thin films of calix[6]arenes and p-tert butyl group effect on their gas sensing properties**
ÖZMEN M., ÖZBEK Z., BAYRAKCI M., ERTUL Ş., ERSÖZ M., ÇAPAN R.
APPLIED SURFACE SCIENCE, vol.359, pp.364-371, 2015 (SCI-Expanded)
- IV. **Langmuir-Blodgett thin film for chloroform detection**
Capan R., Goktas H., ÖZBEK Z., ŞEN S., Ozel M. E., Davis F.
APPLIED SURFACE SCIENCE, vol.350, pp.129-134, 2015 (SCI-Expanded)
- V. **Swelling behavior of pyrene-labelled polystyrene LB thin film exposed to various volatile organic vapors**
ÖZBEK Z., Erdogan M., Capan R.
SENSORS AND ACTUATORS B-CHEMICAL, vol.196, pp.328-335, 2014 (SCI-Expanded)
- VI. **Preparation and gas sensing properties of Langmuir-Blodgett thin films of calix[n]arenes: Investigation of cavity effect**
ÖZMEN M., ÖZBEK Z., Bayrakci M., ERTUL Ş., ERSÖZ M., ÇAPAN R.
SENSORS AND ACTUATORS B-CHEMICAL, vol.195, pp.156-164, 2014 (SCI-Expanded)
- VII. **Fabrication of Langmuir-Blodgett thin films of calix[4]arenes and their gas sensing properties: Investigation of upper rim para substituent effect**
ÖZMEN M., ÖZBEK Z., Buyukcelebi S., Bayrakci M., ERTUL Ş., ERSÖZ M., ÇAPAN R.
SENSORS AND ACTUATORS B-CHEMICAL, vol.190, pp.502-511, 2014 (SCI-Expanded)
- VIII. **Optical parameters of calix[4]arene films and their response to volatile organic vapors**
Ozbek Z., Capan R., Goktas H., ŞEN S., Ince F. G., OZEL M. E., Davis F.
SENSORS AND ACTUATORS B-CHEMICAL, vol.158, no.1, pp.235-240, 2011 (SCI-Expanded)
- IX. **Characterization of Langmuir-Blodgett films of a calix[8]arene and sensing properties towards volatile organic vapors**
Capan R., Ozbek Z., GOKTAS H., ŞEN S., INCE F. G., OZEL M. E., STANCIU G. A., Davis F.
SENSORS AND ACTUATORS B-CHEMICAL, vol.148, no.2, pp.358-365, 2010 (SCI-Expanded)
- X. **Plasma Polymerized Calixarene Thin Films and their Sensing Properties to Chloroform Vapors**
INCE F. G., Goktas H., Ozbek Z., Capan R., Davis F.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.521, pp.104-111, 2010 (SCI-Expanded)
- XI. **Fabrication of plasma polymerized polythiophene and polypyrrole thin films as chloroform vapor sensors**
INCE F. G., ŞEN S., OZBEK Z., Goektas H., Oze M. E., Capan R.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.11, no.9, pp.1182-1185, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Mathematical modelling of vapor sorption in pyrene labelled polystyrene LB thin film studied by surface plasmon resonance spectroscopy**
ÖZBEK Z.
Selçuk Journal of applied Mathematics, vol.13, no.1, pp.111-123, 2012 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **CBAMINE LB films and the vapour detection of those against volatile organic compounds**
ŞEN S., ÇAPAN R., ÖZBEK Z., ÖZEL M. E., STANCIU G. A., DAVIS F.
20th Jubilee International School on Condensed Matter Physics, Varna, Bulgaria, 3 - 07 September 2018, (Summary Text)
- II. **PREPARATION AND CHARACTERIZATION OF LB THIN FILMS OF CALIX[4]ARENE DERIVATIVES**

ÖZMEN M., ÖZBEK Z., BÜYÜKÇELEBİ S., BAYRAKCI M., ERTUL Ş., ERSÖZ M., ÇAPAN R.

INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES (ICSMD-2017), 17 - 19 August 2017, (Summary Text)

III. **Organic Vapor Sensing Properties of Calix[6]Arene and p-tert-butyl Calix[6]Arene LB Films**

ÖZMEN M., ÖZBEK Z., BAYRAKCI M., ERTUL Ş., ERSÖZ M., ÇAPAN R.

INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES (ICSMD-2017), 17 - 19 August 2017, (Summary Text)

IV. **Swelling Behaviour of Calix[N]Arene Langmuir-Blodgett Thin Films**

ÖZMEN M., ÖZBEK Z., BAYRAKCI M., ERTUL Ş., ERSÖZ M., ÇAPAN R.

INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES (ICSMD-2017), 17 - 19 August 2017, (Summary Text)

V. **PREPARATION and GAS SENSING PROPERTIES of Fe₃O₄ FUNCTIONALIZED GRAPHENE OXIDE COMPOSITE THIN FILM**

ÖZMEN M., ÖZBEK Z., BÜYÜKÇELEBİ S., BAYRAKCI M., ERTUL Ş., ERSÖZ M., ÇAPAN R.

International Congress on Semiconductor Materials and Devices" (ICSMD-2017), 17 - 19 August 2017, (Summary Text)

VI. **PHENOLICS ANTIOXIDANT AND ANTIMICROBIAL POTENTIALS OF SHERBETS FROM FLOWERS OF ALTHAE ROSEA AND HIBISCUS SYRIACUS**

ŞEHİTOĞLU M. H., PALA Ç., ÖZKILINÇ H., ÖZBEK Z.

Workshop on Determining Antioxidants as Reactive Species Scavengers, İstanbul, Turkey, 27 October - 28 January 2014, pp.55, (Summary Text)

VII. **Antioxidant and Antimicrobial Potentials of Sherbets From Flowers of Althae rosea and Hibiscus syriacus**

ŞEHİTOĞLU M. H., PALA Ç., ÖZKILINÇ H., ÖZBEK Z.

Workshop on Determining Antioxidants as Reactive Species Scavengers, 27 October - 28 July 2014

VIII. **Chracterization and Organic Vapor Sensing Properties of Langmuir Blodgett Thin films of Calix n arenes**

ÖZMEN M., ÖZBEK Z., Mevlut B., ERTUL Ş., ERSÖZ M., ÇAPAN R.

Turkish Physical Society 31th International Physics Congress, 21 - 24 July 2014

IX. **Fabrication and volatile Organic Vapor Sensing Propeties of Pyrene Labelled Polystyrene Thin Film Surfaces**

ÖZBEK Z., ERDOĞAN M., ÇAPAN R.

Turkish Physical Society 31th International Physics Congress, 21 - 24 July 2014

X. **SENSING PROPERTIES OF BASED ON CALIX[N] ARENE MULTILAYERS TOWARDS VOLATILE ORGANIC VAPORS**

ŞEN S., ÇAPAN R., ÖZBEK Z., ÖZEL M. E., DAVIS F., GÖKTAŞ H., İNCE F.

TURKISH PHYSICAL SOCIETY 31st INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 21 - 24 July 2014, (Summary Text)

XI. **Thin Film Characterization And Gas Sensing Properties Of Calix[4]arene**

ÖZBEK Z., ÇAPAN R., ÖZEL M. E., GÖKTAŞ H., ŞEN S., İNCE F., DAVIS F.

Turkish Physical Society 27thInternational Physics Congress İstanbul Turkey, İstanbul, Turkey, 14 - 17 September 2010, (Summary Text)

XII. **Kaliksaren Moleküllerinin Organik Buhar Sensör Uygulaması**

ÇAPAN R., ÖZBEK Z., ÖZEL M. E., GÖKTAŞ H., ŞEN S., İNCE F., DAVIS F.

Turkish Physical Society 27 th International Physics Congress İstanbul Turkey, İstanbul, Turkey, 14 - 17 September 2010, (Summary Text)

XIII. **Langmuir-Blodgett Thin Film Preparation of C11amine Material**

ŞEN S., ÇAPAN R., ÖZBEK Z., ÖZEL M. E., GÖKTAŞ H., İNCE F., DAVIS F.

Turkish Physical Society 27 th International Physics Congress İstanbul Turkey, İstanbul, Turkey, 14 - 17 September 2010, (Summary Text)

XIV. **Surface Plasmon Resonance Study of Calixarene Langmuir-Blodgett (LB) Thin film**

ÖZBEK Z., ÇAPAN R., ŞEN S., İNCE F., GÖKTAŞ H., ÖZEL M. E., DAVIS F.

Türk Fizik Derneği 26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009, (Summary Text)

XV. Calixarene Langmuir-Blodgett Thin films for Volatile Organic Compounds

ÇAPAN R., ÖZBEK Z., ŞEN S., İNCE F., GÖKTAŞ H., ÖZEL M. E., DAVIS F.

Türk Fizik derneği 26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009, (Summary Text)

XVI. Calixarene Thin Film as a Sensing Element to Volatile Organic Vapours

ÇAPAN R., ÖZBEK Z., STANCIU G. A., GÖKTAŞ H., ŞEN S., İNCE F., ÖZEL M. E., DAVIS F.

The 6 th International Edition of: Romanian Conference on Advanced Materials: ROCAM 2009, Brasov, Romania, 25 - 28 August 2009, (Summary Text)

XVII. Plasma Polymerized Polythiophene and Polypyrrole Thin films in Gas Sensors

İNCE F., ŞEN S., ÖZBEK Z., GÖKTAŞ H., ÖZEL M. E., ÇAPAN R.

15 th International School on Condensed Matter Physics, Varna, Bulgaria, 31 August - 05 September 2008, (Summary Text)

Funded Projects

Çapan R., Şen S., Özbek Z., TÜBİTAK Project, Organik İnce Filmlerin Fiziksel Özelliklerinin ve Zararlı Gazlara Karşı Duyarlılığının İncelenmesi, 2007 - 2009

Metrics

Publication: 39

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