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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), Turkey 1991 - 1998

Postgraduate, Anadolu University, Institute Of Science, Fizik (YI) (Tezli), Turkey 1988 - 1991

Undergraduate, Anadolu University, Faculty Of Science, Department Of Physics, Turkey 1984 - 1988

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1998 - Continues

Research Assistant, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1990 - 1998

Courses

Fizik I Laboratuvarı, Undergraduate, 2016 - 2017

Elektromanyetik Teori II, Undergraduate, 2016 - 2017

Fizik II Laboratuvarı, Undergraduate, 2016 - 2017

Elektromanyetik Teori I, Undergraduate, 2016 - 2017

Fotonik I, Postgraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- Design and Numerical Analysis of a One-Dimensional Photonic Crystal Biosensor for Detection of SARS-CoV-2**
Bilgili N., ÇETİN A.
Plasmonics, 2024 (SCI-Expanded)

Articles Published in Other Journals

- Transmission Properties of Defect Modes with Different Defect Layer Geometries in One-**

Dimensional Photonic Crystals

Çetin A.

International Journal of Engineering Science Invention (IJESI), vol.9, no.9, pp.56-60, 2020 (Peer-Reviewed Journal)

- II. **Analysis the Path of the Light in the Optical Waveguide with Quadratic Graded Index by Using Simple Approximation Method**
Çetin A., Akyol S., Gülbandılar E.
International Journal of Progressive Sciences and Technologies (IJPSAT), vol.22, no.1, pp.412-417, 2020 (Peer-Reviewed Journal)
- III. **Optik Fiber Dalga Kılavuzlarının Yapı Parametrelerinin İncelenmesi**
ÇETİN A., OCAK H. Y.
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.19, no.3, pp.70-76, 2017 (Peer-Reviewed Journal)
- IV. **Fe ve Fe - 25 Al İçin Maksimum Streslerin (hkl) Düzlemlerinde Teorik Olarak Hesaplanması**
OCAK H. Y., ÇETİN A., SARIOĞLU G.
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.19, no.3, pp.23-30, 2017 (Peer-Reviewed Journal)
- V. **Optical visible wavelength region selective reflector design for photovoltaic cells using photonic crystal**
Korkmaz V., ÇETİN A.
TURKISH JOURNAL OF PHYSICS, vol.41, no.6, pp.491-497, 2017 (ESCI)
- VI. **TRANSMISSION PROPERTIES OF 1D DEFECT METALLIC DIELECTRIC PHOTONIC CRYSTALS**
Bilgili N., ÇETİN A.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY – Applied Sciences and Engineering, vol.17, no.4, pp.633-640, 2016 (Peer-Reviewed Journal)
- VII. **Investigation of Electromagnetic Wave Propagation in Si SiO₂ Embedded Waveguide**
Nurettin B., ÇETİN A.
Journal of Multidisciplinary Engineering Science and Technology, vol.2, no.12, pp.3404-3407, 2015 (Peer-Reviewed Journal)
- VIII. **Investigation of the transverse electromagnetic modes in an embedded optical waveguide**
ÇETİN A., KILIÇKAYA M. S.
Advanced Studies in Theoretical Physics, vol.9, no.15, pp.723-735, 2015 (Peer-Reviewed Journal)
- IX. **Determining the Effective Refractive Index of AlGaAs GaAs Slab Waveguide Based on Analytical and Finite Difference Method**
ÇETİN A., UÇGUN E., KILIÇKAYA M. S.
Journal of Physical Science and Application, vol.2, no.9, pp.381-385, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Physics I Experiments Laboratory Book for Engineering Students**
Alğın E., Peker D., İşsever U. G., Kılıç G., Aşıcı C., Baykul M. C., Çetin A., Çetinkaya Çolak S., Eroğlu S., İlik E., et al.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2019
- II. **Physics I Experiments Laboratory Book for Engineering Students**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., BAYKUL M. C., ÇETİN A., ÇETİNKAYA ÇOLAK S., EROĞLU S., İLİK E., et al.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2018
- III. **Mühendislik Öğrencileri İçin Fizik I Deneyleri Laboratuvar Kitabı**
ATAY F., ÇETİN A., İŞSEVER U. G., KILIÇ G.
Eskişehir Osmangazi Üniversitesi, 2017
- IV. **Mühendislik öğrencileri için FİZİK I DENEYLERİ LABORATUVAR KİTABI**
ATAY F., ÇETİN A., İŞSEVER U. G., KILIÇ G.

Eskişehir Osmangazi Üniversitesi Yayınları No: 275, Eskişehir, 2017

V. Physics I Experiments Laboratory Book For Engineering Students

ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., BAYKUL M. C., ÇETİN A., ÇETİNKAYA ÇOLAK S., EROĞLU S., İLİK E., et al.

Eskişehir Osmangazi Üniversitesi Yayınları no:290, Eskişehir, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Light Speed in Fiber Cable with Multi-Layer Neural Networks**
ÇETİN A., AKYOL S., GÜLBANDILAR E.
International Congress on Engineering and Architecture, Antalya, Turkey, 14 - 16 November 2018, pp.1976-1984
- II. **Değişen İndisli Optik Fiberde Yaklaşım Yöntemi Kullanarak Temel Mod Analizi**
ÇETİN A., OCAK H. Y., GÜLBANDILAR E.
Adım Fizik Günleri 7, Aydın, Turkey, 23 - 25 May 2018, pp.21
- III. **Predicting The Effect of Zeolite on The Flexural Strength of Portland Cement with Fuzzy Logic**
ÇETİN A., AKÇAY M., ÖZCAN G., GÜLBANDILAR E., KOÇAK Y.
Adım Fizik Günler 7, Turkey, 23 - 25 May 2018, pp.19
- IV. **Bandgap and Reflections Calculations in Photonic Periodic Structure**
GÜLBANDILAR E., ÇETİN A.
1st Light and Light-Based Technologies Workshop, Ankara, Turkey, 15 May 2018, pp.72
- V. **Investigation of Electromagnetic Waves in Optical Waveguides with FDTD Method by Using Lorentz Drude Dispersive Method**
ÇETİN A., GÜLBANDILAR E.
1st Light and Light-Based Technologies Workshop, Ankara, Turkey, 15 May 2018, pp.48
- VI. **Investigation of Elastic Anisotropy Pressure Change in Fe-Al Alloys**
OCAK H. Y., AKBUDAK S., UĞUR Ş., UĞUR G., ÇETİN A.
3rd International Workshop on Thermodynamic of Metallic Alloys, 28 - 30 November 2017
- VII. **Narrow Band Photonic Crystal Filter Design in Defective One Dimension (1D) Media**
ÇETİN A., OCAK H. Y., SARIOĞLU G.
3RD INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 3RD ITWCCST, 10 - 13 September 2017
- VIII. **Calculation of Plane Energies (HKL) for Fe and Fe - 25 Al by Analytical Method**
SARIOĞLU G., OCAK H. Y., ÇETİN A., ÜNAL R.
3RD INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 3RD ITWCCST, 10 - 13 September 2017
- IX. **Some Mechanical Characteristics of Fe -50 Mn Alloyed by the "Wien2K" Program**
OCAK H. Y., SARIOĞLU G., AKBUDAK S., ÇETİN A.
TURKISH PHYSICAL SOCIETY 3RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
- X. **Optik Fiber Dalga Kılavuzlarının Yapı Parametrelerinin İncelenmesi**
ÇETİN A., OCAK H. Y.
Adım Fizik Günleri VI , 2017, 19 - 21 July 2017
- XI. **Fe ve Fe - 25 Al İçin Maksimum Streslerin (hkl) Düzlemlerinde Teorik Olarak Hesaplanması**
OCAK H. Y., ÇETİN A.
Adım Fizik Günleri VI , 2017, 19 - 21 July 2017
- XII. **Investigations of Modes And Relative Refractive Index Difference in Weakly Guiding Optical Fibers**
ÇETİN A., OCAK H. Y.
1th INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS, ICASA 2017, 29 - 31 March 2017
- XIII. **Theoretical Calculations of Maximum Stress Values in Equilibrium for Bcc Fe and Fcc Al with Respect to Different Planes**
OCAK H. Y., ÇETİN A., AKBUDAK S., UĞUR G., UĞUR Ş., ÜNAL R.

- 1th INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS, ICASA 2017, 29 - 31 March 2017
- XIV. **Optimizing The Optical Visible Wavelength Region Selective Reflector For Photovoltaic Cells Using Photonic Crystal**
ÇETİN A., OCAK H. Y.
1th INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS, ICASA 2017, 29 - 31 March 2017
- XV. **Investigation of Average Crystallite Size on Bcc Fe – Al by the Scherrer Method**
OCAK H. Y., ÇETİN A., AKBUDAK S., UĞUR G., UĞUR Ş.
1th INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS, ICASA 2017, 29 - 31 March 2017
- XVI. **Calculation of Internal Interaction Energy of Fe 1 x Al x Alloy System by Analytical Method**
OCAK H. Y., ÜNAL R., ÇETİN A.
2nd International Congress on the World of Technology and Advanced Materials (WITAM 2016), Kırşehir, Turkey, 28 - 02 September 2016
- XVII. **Designing optical wavelength filter in 1D photonic structure**
ÇETİN A.
2nd International Congress on the World of Technology and Advanced Materials (WITAM 2016), Kırşehir, Turkey, 28 - 02 September 2016
- XVIII. **Simple numerical studies on propagation characteristics of optical fiber waveguides**
ÇETİN A.
2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 28 September - 02 October 2016
- XIX. **Transmission Properties of Metallic Photonic Crystals in One Dimension**
ÇETİN A., Bilgili N.
2nd International Conference on Engineering and Natural Science, Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016

Supported Projects

ÇETİN A., Project Supported by Higher Education Institutions, Sıfır Yansımali Çeşitli Fotonik Yapıların FDTD Yöntemi Kullanılarak İncelenmesi, 2016 - 2018

Metrics

Publication: 34