

Assoc. Prof. Kenan KOÇ

Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, Turkey 2004 - 2011

Post Graduate, Istanbul Technical University, Fen-Edebiyat, Rectorate, Turkey 2000 - 2004

Under Graduate, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, Turkey 1996 - 2000

Research Areas

Nanomaterials, Physics, Surfaces, Interfaces, Thin Films and Nanosystems, Magnetic Properties and Materials, Optical Properties, Spectroscopy of Matter

Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2017 - Continues

Research Assistant, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2002 - 2017

Courses

Under Graduate, 2018 - 2019

Graduation Project, Under Graduate, 2018 - 2019

Physics 2 (Group:15), Under Graduate, 2018 - 2019

Physics 1 (Group:5), Under Graduate, 2018 - 2019

Physics 2 (Group:10), Under Graduate, 2017 - 2018

Physics 1 (Group:9), Under Graduate, 2018 - 2019

General Physics, Under Graduate, 2018 - 2019

Physics 2 (Group:10), Under Graduate, 2017 - 2018

Physics 1 (Group:23), Under Graduate, 2017 - 2018

Graduation Project, Under Graduate, 2017 - 2018

Physics 1 (Group:6), Under Graduate, 2017 - 2018

Advising Theses

Koç K., Investigation of Radiation Effect on Polymer Composite Materials, Post Graduate, E.AZ(Student), Continues

Koç K., Okutan M., MPS Kuşatımlı- CdS Nano Yapılar İçeren İnce Filmlerin Optik Özelliklerinin İncelenmesi, Post Graduate, A.Kar(Student), 2016

Research Infrastructure Information

Koç K., Kılıç M., Az E., Magnetic Nanomaterials Laboratory, January 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A Comparative Study of Optical Properties of Thin Films of MPS-encapsulated CdS Quantum Dots and SiO₂/MPS-encapsulated CdS Quantum Dots Mixture**
Koç K.
OPTICS AND SPECTROSCOPY, vol.127, pp.1117-1121, 2019 (Journal Indexed in SCI)
- **Effects of gel morphology on the lysozyme adsorption and desorption kinetics of temperature sensitive magnetic gel composites**
Alveroglu E., İlker N., Shah M. T. , Rajar K., Gokceoren A. T. , Koç K.
Colloids And Surfaces B-Biointerfaces, vol.181, pp.981-988, 2019 (Journal Indexed in SCI)
- **Synthesis and characterization. of ZnS@Fe₃O₄ fluorescent-magnetic bifunctional nanospheres**
KOÇ K., Karakus B., Rajar K., Alveroglu E.
SUPERLATTICES AND MICROSTRUCTURES, vol.110, pp.198-204, 2017 (Journal Indexed in SCI)
- **Camphor Sulfonic Acid Doped Poly(3-hexylthiophene) Nanofilms: Optical and Electrical Properties**
Aktuna S., Alveroglu E., KOÇ K.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.17, pp.467-473, 2017 (Journal Indexed in SCI)
- **One pot synthesis and characterization of Fe₃O₄ Nanorod-PNIPA Nanogel Composite for protein adsorption**
Rajar K., Karakus B., KOÇ K., Alveroglu E.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.68, pp.59-64, 2016 (Journal Indexed in SCI)
- **Effect of strain level on stress relaxation and recovery behaviors of isotactic biaxially oriented polypropylene films**
BOZDOĞAN A., AKSAKAL B., KOÇ K., TSOBKALLO E. S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, 2016 (Journal Indexed in SCI)
- **Tuning the gel size and LCST of N-isopropylacrylamide nanogels by anionic fluoroprobe**
KOÇ K., Alveroglu E.
COLLOID AND POLYMER SCIENCE, vol.294, pp.285-290, 2016 (Journal Indexed in SCI)
- **Effect of UV-light on the uniaxial tensile properties and structure of uncoated and TiO₂ coated Bombyx mori silk fibers**
AKSAKAL B., KOÇ K., YARGI Ö., TSOBKALLO K.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.152, pp.658-665, 2016 (Journal Indexed in SCI)
- **Structural, optical and electrochromic properties of tantalum pentoxide-doped niobium pentoxide thin films**
Pehlivan E., KOÇ K., Tepehan F. Z. , Tepehan G. G.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.77, pp.172-178, 2016 (Journal Indexed in SCI)
- **Effect of MPS concentration on ripening kinetics and structural properties of CdS quantum dots in self-assembled thin films**
Koc K.
JOURNAL OF MOLECULAR STRUCTURE, vol.1102, pp.127-134, 2015 (Journal Indexed in SCI)
- **Growth of MPS-capped ZnS quantum dots in self-assembled thin films: Influence of heat treatment**
Koç K., Tepehan F. Z. , Tepehan G. G.
SUPERLATTICES AND MICROSTRUCTURES, vol.88, pp.527-535, 2015 (Journal Indexed in SCI)
- **Optical characterization of spin-coated cobalt porphyrine thin films: effect of annealing temperature**
KOÇ K., KESKİN B., DENKTAŞ C.
PHILOSOPHICAL MAGAZINE LETTERS, vol.95, pp.511-518, 2015 (Journal Indexed in SCI)
- **Adsorption and desorption studies of lysozyme by Fe₃O₄-polymer nanocomposite via fluorescence spectroscopy**
KOÇ K., Alveroglu E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1089, pp.66-72, 2015 (Journal Indexed in SCI)
- **Uniaxial tensile properties of TiO₂ coated single wool fibers by sol-gel method: The effect of heat treatment**
AKSAKAL B., KOÇ K., BOZDOĞAN A., TSOBKALLO K.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, pp.898-907, 2013 (Journal Indexed in SCI)

- **The Tensile Properties of Uncoated and TiO₂ Coated Bombyx Mori Silk Yarns Exposed to Thermal Treatment**

AKSAKAL B., KOÇ K.

JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.52, pp.1283-1297, 2013 (Journal Indexed in SCI)

- **Growth kinetics of MPS-capped CdS quantum dots in self-assembled thin films**

Koç K., Tepehan F. Z. , Tepehan G. G.

NANOSCALE RESEARCH LETTERS, vol.7, 2012 (Journal Indexed in SCI)

- **Preparation and Characterization of Self-Assembled Thin Film of MPS-Capped ZnS Quantum Dots for Optical Applications**

Koç K., Tepehan F. Z. , Tepehan G. G.

JOURNAL OF NANOMATERIALS, 2012 (Journal Indexed in SCI)

- **CHARACTERIZATION OF MPS CAPPED CdS QUANTUM DOTS AND FORMATION SELF-ASSEMBLED QUANTUM DOTS THIN FILMS ON A GLASS SUBSTRATE**

Koç K., Tepehan F. Z. , Tepehan G. G.

CHALCOGENIDE LETTERS, vol.8, pp.239-247, 2011 (Journal Indexed in SCI)

- **Optical and structural properties of Ta₂O₅-CeO₂ thin films**

Saygin-Hinczewski D., Koc K., Sorar I., Hinczewski M., Tepehan F. Z. , Tepehan G. G.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.91, pp.1726-1732, 2007 (Journal Indexed in SCI)

- **Antireflecting coating from Ta₂O₅ and SiO₂ multilayer films**

Koc K., Tepehan F., Tepehan G.

JOURNAL OF MATERIALS SCIENCE, vol.40, pp.1363-1366, 2005 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Charged Particle Detection with PPO Doped Polystyrene Film**

Az E., Koç K., Akçalı Ö., Kaya M. A.

HEZARFEN Uluslararası Fen Matematik ve Mühendislik Bilimleri Kongresi, İzmir, Turkey, 8 - 10 November 2019, pp.150

- **Optical Properties of TiO₂ and TiO₂/MPS-Capped CdS Quantum Dots Mixture Thin Films: Influence of Heat Treatment**

AKÇALI Ö., KOÇ K., AZ E.

International Conference on Sustainable Energy and Energy Calculations (ICSEEC), Muğla, Turkey, 12 April 2019, pp.46

- **Optical and Structural Properties of Self-assembled Thin Films of MPS-capped CdS Quantum Dots: Influence of Heat Treatment**

KOÇ K., Tepehan F. Z. , Tepehan G. G.

International Conference on Photovoltaic Science and Technologies (PVcon2018), Ankara, Turkey, 04 July 2018, pp.118

- **Optical Properties of SiO₂/MPS-Capped CdS Quantum Dots Mixture Thin Films**

KOÇ K.

3rd International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), Muğla, Turkey, 26 August 2017, pp.213

- **Thin Films of Fluorescent N-isopropylacrylamide Nanogels: Optical Investigation**

KOÇ K., Alveroglu E.

3rd International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), Muğla, Turkey, 26 August 2017, pp.214

- **Physical Properties of Nano Sized Poly-N-isopropylacrylamide Hydrogels**

ALVEROGLU E., KOÇ K.

4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosnia And Herzegovina, 28 June 2017, pp.100

- **Effects of Substrate Temperature on Camphor Sulfonic Acid Doped Poly(3-hexylthiophene) Thin Films**
KOÇ K., Alveroglu E.
12th International Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 03 June 2016, pp.177
- **One Pot Synthesis and Characterization of Fe₃O₄ Nanorods-PNIPANanogels Composite for Protein Adsorption**
RAJAR K., KARAKUS B., KOÇ K., ALVEROGLU E.
12th International Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 03 June 2016, pp.420
- **Properties of Fe₃O₄:ZnS Magnetic-Fluorescent Bifunctional Nano Spheres**
KARAKUS B., RAJAR K., KOÇ K., ALVEROGLU E.
12th International Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 03 June 2016, pp.340
- **Insitu Synthesis and Characterization of Fe₃O₄ Magnetite Nanoparticles in Temperature Sensitive Nanogel for Biomedical Application**
Rajar K., Karakus B., Koç K., Alveroglu E.
2nd International Nanoscience and Nanotechnology for Next Generation Conference (NaNONG), Antalya, Turkey, 29 October 2015, pp.105
- **Optical Properties of Self assembled Thin Films of MPS capped CdS Quantum Dots Effect of MPS Concentration**
Koç K., Kar A., Okutan M., Alveroğlu Durucu E.
1st International Advanced and Functional Materials Technologies (AFMAT) 2015, Antalya, Turkey, 26 - 28 October 2015
- **Synthesis and Characterization of Fluorescent-Magnetic Bifunctional Nanostructure**
Karakuş B., Rajar K., Koç K., Alveroglu E.
2nd International Nanoscience and Nanotechnology for Next Generation Conference (NaNONG), Antalya, Turkey, 29 October 2015, pp.101
- **Adsorption and desorption studies of lysozyme by thermosensitive Fe₃O₄- PNIPAM nanocomposite via fluorescence spectroscopy**
Alveroglu E., İlker N., Gökçeören A., Koç K.
Diffusion Fundamentals VI, Dresden, Germany, 23 August 2015, pp.1
- **Influence of Heat Treatment on Structural and Optical Properties of Cobalt Porphyrine Thin Films**
KESKİN B., KOÇ K., DENKTAŞ C., TEPEHAN F. Z. , AVCIATA U., GÜL A.
16th JCF-Frühjahrssymposium, Jena, Germany, 26 - 29 March 2014
- **Elucidation of the Porous Size Dependence of the Oxygen Diffusion into Porous Silicon by Using Fluorescence Technique**
Yargı Ö., Gelir A., Aydın Yüksel S., Koç K.
International Turkish Congress on Molecular Spectroscopy (TURCMOS 2013), İstanbul, Turkey, 15 September 2013, pp.109
- **Diffusion Energies and Oxygen Diffusion Coefficients of Porous Silicon**
Yargı Ö., Aydın Yüksel S., Gelir A., Koç K.
International Turkish Congress on Molecular Spectroscopy (TURCMOS 2013), İstanbul, Turkey, 15 - 20 September 2013, pp.106
- **Effect Of Uv Light On The Uniaxial Tensile Properties Of TiO₂ Coated Bombyx Mori Silk Fibers By Sol Gel Method**
AKSAKAL B., KOÇ K., YARGI Ö., TSOBKALLO K.
Turcmos 2013, International Turkish Congress on Molecular Spectroscopy, İstanbul, Turkey, 15 - 20 September 2013, pp.126
- **Uniaxial Tensile Properties of Uncoated and TiO₂ Coated Single Wool Fibers Exposed to Thermal Treatment**
AKSAKAL B., KOÇ K., BOZDOĞAN A., TSOBKALLO E. S.
Turkish Physical Society 29th International Physics Conference, 5 - 08 September 2012
- **Influence of Heat Treatment on Optical and Structural Properties of Self-assembled Thin Films of MPS-**

capped ZnS Quantum Dots

KOÇ K., Tepehan F. Z. , Tepehan G. G.

International Conference on Superlattices, Nanostructures, and Nanodevices, Dresden, Germany, 22 July 2012, pp.68

- **Growth Kinetics of MPS-capped CdS Quantum Dots in Self-assembled Thin Films**

KOÇ K., Tepehan F. Z. , Tepehan G. G.

International Conference on Superlattices, Nanostructures, and Nanodevices, Dresden, Germany, 22 July 2012, pp.29

- **The Effect of Heat Treatment on The Tensile Properties of TiO₂ Coated Bombyx Mori Silk Yarns**

Aksakal B., Koç K.

Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 06 September 2011, pp.416

- **Optical Properties of Self-Assembled MPS Capped ZnS Quantum Dots Thin Films**

KOÇ K., TEPEHAN F. Z. , TEPEHAN G.

NanoTRVII, İstanbul, Turkey, 27 June 2011

- **Optical properties of thin films of MPTMS-capped CdS quantum dots**

KOÇ K., Tepehan F. Z. , Tepehan G. G.

International Conference on Nanomaterials and Nanosystems, İstanbul, Turkey, 10 August 2009, pp.83

- **Sol Gel Yöntemiyle Üretilen ZnS ve CdS Nano Parçacıklar Katkılı SiO₂ İnce filmlerinin Karakterizasyonu**

KOÇ K., TEPEHAN F. Z. , TEPEHAN G. G.

İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştayı, İstanbul, Turkey, 12 February 2009, pp.82

- **Nanostructured ZnS and SiO₂-ZnS Thin Films were Produced by Sol-Gel Spin Coating Techniques**

KOÇ K., Tepehan F. Z. , Tepehan G. G.

NanoTR IV, İstanbul, Turkey, 09 June 2008, pp.350

- **Preparation and Characterization of Ta₂O₅ - CeO₂ Thin Films**

SAYGIN-HINCZEWSKI D., KOÇ K., SORAR I., HINCZEWSKI M., TEPEHAN F. Z. , TEPEHAN G. G.

2008 APS March Meeting, New Orleans, United States Of America, 10 March 2008

- **Optical and Structural Properties of CeO₂-Ta₂O₅ Thin Films**

KOÇ K., Saygin Hinczewski D., Sorar İ., Tepehan F. Z. , Tepehan G. G.

XXVIII European Congress on Molecular Spectroscopy, İstanbul, Turkey, 03 September 2006, pp.220

- **Optical and Structural Properties of Sol-gel Made Nb₂O₅ –Ta₂O₅ Mixtures.**

Pehlivan E., Koç K., Tepehan F. Z. , Tepehan G. G.

XXVIII European Congress on Molecular Spectroscopy, İstanbul, Turkey, 03 September 2006, pp.216

- **Electrochromic Properties of Tantalum Pentoxide Doped Niobium Pentoxide Thin Films**

Pehlivan E., Koç K., Tepehan F. Z. , Tepehan G. G.

7. International Meeting on Electrochromism, İstanbul, Turkey, 03 September 2006, pp.73

- **Structural, Optical and Electrochromic Properties of Sol-Gel Made ZnO Thin Films for Various Heat Treatments**

Pehlivan E., Saygin Hinczewski D., KOÇ K., Tepehan F. Z. , Tepehan G. G.

7. International Meeting on Electrochromism, İstanbul, Turkey, 03 September 2006, pp.81

- **Antireflecting coating from Ta₂O₅ and SiO₂ multilayers films**

KOÇ K., TEPEHAN F. Z. , TEPEHAN G. G.

SCELL-2004, Badajoz, Spain, 13 May 2004

Supported Projects

KOÇ K., Project Supported by Higher Education Institutions, Kuşatım ajanı konsantrasyonunun CdS nanoparçacıklar üzerine etkisinin incelenmesi, 2014 - 2017

Koç K., Tepehan F., Project Supported by Higher Education Institutions, II VI Grubu Yarıiletken Nano Yapılı İnce Filmlerin Sol Jel Yöntemi ile Üretimi, 2010 - 2011

Tasks In Event Organizations

Koç K., 7.International Meeting on Electrochromism, Kadir Has University, Scientific Congress, İstanbul, Turkey, Eylül 2006

Citations

Total Citations (WOS):139

h-index (WOS):6

Invited Talks

Controlled growth of Mptms-capped CdS Quantum Dots with heat treatment, Seminar, İstanbul Teknik Üniversitesi, Turkey, December 2009