

Prof. GÜNGÖR GÜNDÜZ

Personal Information

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Advising Theses

- GÜNDÜZ G., Gündüz G., Synthesis and characterization of tetranitro and tetraamino zinc phthalocyanines and their combinations with mica-titania pigment, Postgraduate, Y.Sönmez(Student), 2014
- GÜNDÜZ G., Gündüz G., Synthesis and characterization of single hollow opaque polymer pigments, Postgraduate, E.Karakaya(Student), 2013
- GÜNDÜZ G., Gündüz G., Synthesis and characterization of zirconium tungstate-zirconia core-shell composite particles, Postgraduate, N.Khazeni(Student), 2013
- GÜNDÜZ G., Gündüz G., Production of epoxide functionalized boehmite nanoparticles and their use in epoxide nanocomposites, Postgraduate, A.Coniku(Student), 2012
- GÜNDÜZ G., Gündüz G., Synthesis and characterization of multi-hollow opaque polymer pigments, Postgraduate, S.Asmaoğlu(Student), 2012
- GÜNDÜZ G., Gündüz G., Synthesis and characterization of fluorescent zinc phthalocyanine pigments and its combination pigment with mica titania pigment, Postgraduate, S.Sevim(Student), 2012
- GÜNDÜZ G., Gündüz G., Synthesis of zirconium tungstate and its use in composites with tunable thermal expansion coefficient, Postgraduate, İ.Vural(Student), 2011
- GÜNDÜZ G., Gündüz G., Isocyanate functionalization of nano-boehmite for the synthesis of polyurethane organic-inorganic hybrid materials, Postgraduate, G.Eroğlu(Student), 2011
- GÜNDÜZ G., Gündüz G., Synthesis and characterization of solvent free alkyd resin with hyperbranched melamine core, Postgraduate, N.Keskin(Student), 2011
- GÜNDÜZ G., Production and characterization of nanofibers from polycaprolactam and ethylene-butyl acrylate-maleic anhydride terpolymer mixture, Doctorate, E.Biber(Student), 2010
- GÜNDÜZ G., Synthesis and characterization of copper phthalocyanine deposited mica titania pigment, Postgraduate, B.Burcu(Student), 2010
- GÜNDÜZ G., Production of nano alumoxane from aluminum hydroxide, Postgraduate, K.Sezgiker(Student), 2010
- GÜNDÜZ G., Synthesis of silver nanoparticles and cable like structures through coaxial electrospinning, Postgraduate, S.Çınar(Student), 2009
- GÜNDÜZ G., A novel precursor for synthesis of zirconium tungstate and preliminary studies for nanofiber production, Postgraduate, B.Özerciyes(Student), 2009
- GÜNDÜZ G., Metal polymer composite nanofiber production by electrospinning, Postgraduate, N.Karakoç(Student), 2009
- GÜNDÜZ G., Electrospinning of polystyrene/butly rubber blends : a parametric study, Postgraduate, A.Göktaş(Student), 2008
- GÜNDÜZ G., Production of alumina borosilicate ceramic nanofibers by using electrospinning technique and its characterization, Postgraduate, S.Tanrıverdi(Student), 2006
- GÜNDÜZ G., Synthesis and characterization of hyperbranched and air drying fatty acid based resins, Postgraduate, E.Bat(Student), 2005
- GÜNDÜZ G., Synthesis oil based hyperbranched resins and their modification with melamine formaldehyde resins, Postgraduate, C.Karakaya(Student), 2005
- GÜNDÜZ G., Production of carbon nanotubes by chemical vapor deposition, Postgraduate, U.Barış(Student), 2004
- GÜNDÜZ G., Gündüz G., Water dispersed epoxy resin for surface coatings, Postgraduate, E.Şen(Student), 2003
- GÜNDÜZ G., Structure-property study of waterborne polyurethane coatings based on different hydrophilic contents and

polyols, Postgraduate, R.Reyhan(Student), 2001

GÜNDÜZ G., Dependence of hardness on chain statistics of weakly and late crosslinked poly(methyl methacrylate) and styrene-acrylonitrile copolymer, Doctorate, G.Dikencik(Student), 2001

GÜNDÜZ G., Correlation between hardness and chain statistics in weakly crosslinked styrene-acrylonitrile copolymer, Postgraduate, M.Dernaika(Student), 2000

GÜNDÜZ G., Gündüz G., Oil modified water-borne polyurethane varnishes, Postgraduate, Y.Idlibi(Student), 1999

USANMAZ A., GÜNDÜZ G., Preparation and modification of heat-activated dental base material cured by gamma radiation., Postgraduate, Ö.Eser(Student), 1998

GÜNDÜZ G., Gündüz g., Mechanical properties of carbon fiber reinforced epoxy polyurethane interpenetrating polymer network composites, Postgraduate, İ.Aydeniz(Student), 1997

GÜNDÜZ G., Synthesis characterization and performance of burnable absorber nuclear fuels by chemical vapor deposition and plasma enhanced chemical vapor deposition., Doctorate, H.H(Student), 1997

GÜNDÜZ G., Gündüz G., Polyurethane based water-dispersed paints, Postgraduate, M.Gafaroğulları(Student), 1997

GÜNDÜZ G., Flame retardant alkyd paint production, Postgraduate, N.Banu(Student), 1996

GÜNDÜZ G., Gündüz G., Flame retardant alkyd paint production by means of poly (dibromo phenylene oxide) polymer and bis(pyridine) bis (tribromophenoxy) copper (II) complex, Postgraduate, Ş.Kayadan(Student), 1996

GÜNDÜZ G., The production, characterization and burnup of uranium dioxide-gadolinium oxide fuel and boron nitride coated uranium dioxide-gadolinium oxide fuel, Doctorate, İ.Uslu(Student), 1995

EROĞLU İ., GÜNDÜZ G., Separation of strontium ions with liquid membrane technique, Postgraduate, R.Kalpakçı(Student), 1991

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GÜNDÜZ G., Improvement of mechanical properties of propylene and diethylene glycol based polyesters by acrylonitrile, Postgraduate, A.Deniz(Student), 1990

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GÜNDÜZ G., GÜNDÜZ U., Trypsin immobilization on porous styrene-maleic anhydride copolymer., Postgraduate, S.Shaghghi(Student), 1988

GÜNDÜZ G., Effects of cell pitch and enrichment on the optimum burnup in pressurized water reactors, Postgraduate, Y.Ajwah(Student), 1987

GÜNDÜZ G., Effects of soluble burnable poison on the age of a PWR core, Postgraduate, S.Altın(Student), 1986

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Physics in deformable spacetime: Physical laws emerging from the surface minimality principle and the masses of particles**
Gündüz G.
Results in Physics, vol.56, 2024 (SCI-Expanded)
- II. **Entropy, energy, and instability in music**
Gündüz G.
Physica A: Statistical Mechanics and its Applications, vol.609, 2023 (SCI-Expanded)
- III. **Entropic characterization of Gross Domestic Product per capita (GDP) values of countries**
Gündüz G., KUZUCUOĞLU M., Gündüz Y.
Physica A: Statistical Mechanics and its Applications, vol.603, 2022 (SCI-Expanded)
- IV. **Fibers of thermoplastic polymer blends activate multiple interlayer toughening mechanisms**
Kılıçoğlu M., BAT E., Gündüz G., YILDIRIM M. U., URGUN K., MAVİŞ B.
Composites Part A: Applied Science and Manufacturing, vol.158, 2022 (SCI-Expanded)
- V. **Pattern formation in time series systems due to viscoelastic behavior: Case studies in uniform distribution, normal distribution, stock market index, and music**
Gunduz G.

INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.29, no.9, 2018 (SCI-Expanded)

- VI. **Synthesis and characterization of solvent-free hybrid alkyd resin with hyperbranched melamine core**
Gunduz G., Keskin N., Çolak Ü., MAVİŞ B.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.15, no.4, pp.831-843, 2018 (SCI-Expanded)
- VII. **Use of functionalized boehmite nanoparticles to improve the hardness and tribological properties of polyurethane films**
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JOURNAL OF POLYMER RESEARCH, vol.25, no.2, 2018 (SCI-Expanded)
- VIII. **Synthesis of opaque and colored hollow polymer pigments**
Karakaya E., MAVİŞ B., Gunduz G.
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- IX. **Viscoelasticity and pattern formations in stock market indices**
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- X. **The dynamics of the rise and fall of empires**
Gunduz G.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.27, no.10, 2016 (SCI-Expanded)
- XI. **A thermodynamical view on asset pricing**
Gunduz G., Gunduz Y.
INTERNATIONAL REVIEW OF FINANCIAL ANALYSIS, vol.47, pp.310-327, 2016 (SSCI)
- XII. **Synthesis and characterization of multi-hollow opaque polymer pigments**
Asmaoglu S., Gunduz G., MAVİŞ B., Colak U.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.29, 2016 (SCI-Expanded)
- XIII. **Idarubicin-loaded folic acid conjugated magnetic nanoparticles as a targetable drug delivery system for breast cancer**
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- XIV. **PAMAM dendrimer-coated iron oxide nanoparticles: synthesis and characterization of different generations**
Khodadust R., Unsoy G., Yalcin S., Gunduz G., GÜNDÜZ U.
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- XV. **Synthesis and characterization of copper phthalocyanine and tetracarboxamide copper phthalocyanine deposited mica-titania pigments**
Topuz B. B., GÜNDÜZ G., MAVİŞ B., Colak U.
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- XVI. **Synthesis optimization and characterization of chitosan-coated iron oxide nanoparticles produced for biomedical applications**
Unsoy G., Yalcin S., Khodadust R., GÜNDÜZ G., GÜNDÜZ U.
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- XVII. **Thermodynamics of relation-based systems with applications in econophysics, sociophysics, and music**
Gunduz G.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.20, pp.4637-4653, 2012 (SCI-Expanded)
- XVIII. **Synthesis of silver nanoparticles by oleylamine-oleic acid reduction and its use in making nanocable by coaxial electrospinning**
ÇINAR S., GÜNDÜZ G., MAVİŞ B., Çolak Ü.
Journal of Nanoscience and Nanotechnology, vol.11, no.4, pp.3669-3679, 2011 (SCI-Expanded)
- XIX. **Synthesis of zirconium tungstate-zirconia core-shell composite particles**
Khazeni N., MAVİŞ B., Gunduz G., Colak U.

MATERIALS RESEARCH BULLETIN, vol.46, no.11, pp.2025-2031, 2011 (SCI-Expanded)

- XX. **The effect of tin dioxide (SnO₂) on the anatase-rutile phase transformation of titania (TiO₂) in mica-titania pigments and their use in paint**
Topuz B. B., Gunduz G., MAVİŞ B., Colak U.
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- XXI. **Viscoelastic behavior of stock indices**
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- XXII. **Fatty acid based hyperbranched polymeric nanoparticles for hydrophobic drug delivery**
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- XXIII. **Compatibility analysis of Nylon 6 and poly(ethylene-n-butyl acrylate-maleic anhydride) elastomer blends using isothermal crystallization kinetics**
Biber E., Gunduz G., MAVİŞ B., Colak U.
MATERIALS CHEMISTRY AND PHYSICS, vol.122, no.1, pp.93-101, 2010 (SCI-Expanded)
- XXIV. **Effects of electrospinning process parameters on nanofibers obtained from Nylon 6 and poly(ethylene-n-butyl acrylate-maleic anhydride) elastomer blends using Johnson S-B statistical distribution function**
Biber E., Gunduz G., MAVİŞ B., Colak U.
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- XXV. **Synthesis, characterization and osteoblastic activity of polycaprolactone nanofibers coated with biomimetic calcium phosphate**
MAVİŞ B., Demirtas T. T., GÜMÜŞDERELİOĞLU M., Gunduz G., Colak U.
ACTA BIOMATERIALIA, vol.5, no.8, pp.3098-3111, 2009 (SCI-Expanded)
- XXVI. **Dynamics of the world terror and the war in Iraq**
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- XXVII. **Synthesis of carbon nanotubes by a plasma based pulsed electron beam generator**
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- XXVIII. **The mathematical analysis of the structure of some songs**
Gunduz G., Gunduz U.
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- XXIX. **Synthesis and characterization of 1,4-diazophenylene-bridged Cu-phthalocyanine polymer**
Alkan C., Aras L., Gunduz G.
E-POLYMERS, 2004 (SCI-Expanded)
- XXX. **Water-borne and air-drying oil-based resins**
Gunduz G., Khalid A., Mecidoglu I., Aras L.
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- XXXI. **Synthesis and characterization of waterborne and phosphorus-containing flame retardant polyurethane coatings**
Celebi F., Aras L., Gunduz G., Akhmedov I.
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- XXXII. **Boron coating on boron nitride coated nuclear fuels by chemical vapor deposition**
Durmazucar H., Gunduz G.
JOURNAL OF NUCLEAR MATERIALS, vol.282, pp.239-244, 2000 (SCI-Expanded)
- XXXIII. **Powder characteristics and microstructure of uranium dioxide and uranium dioxide-gadolinium oxide fuel**
Gunduz G., Uslu I.
JOURNAL OF NUCLEAR MATERIALS, vol.231, pp.113-120, 1996 (SCI-Expanded)

- XXXIV. **FLAME RETARDATION AND MECHANICAL-PROPERTIES OF 1,3 PROPYLENE-GLYCOL BASED UNSATURATED POLYESTER**
GUNDUZ G., OZTURK S.
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- XXXV. **EXTRACTION OF STRONTIUM IONS WITH EMULSION LIQUID MEMBRANE TECHNIQUE**
EROGLU I., KALPAKCI R., GUNDUZ G.
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- XXXVI. **PORE-SIZE DISTRIBUTIONS IN URANIUM-DIOXIDE AND URANIUM DIOXIDE-GADOLINIUM OXIDE FUEL KERNEL PRODUCED BY SOL-GEL TECHNIQUE**
GUNDUZ G., ONAL I., DURMAZUCAR H.
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- XXXVII. **THE EFFECT OF SOLUBLE BORON ON THE BURNUP AT DIFFERENT ENRICHMENTS AND ASSEMBLIES**
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- XXXVIII. **EFFECT OF POROSITY ON INTERFACIAL FAILURE IN STEEL-FIBER-REINFORCED POLYMER-IMPREGNATED CONCRETE**
GUNDUZ G.
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- XXXIX. **STRENGTH OF STEEL-FIBER-REINFORCED POLYMER CONCRETE - EFFECT OF IMPREGNATION TECHNIQUE**
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COMPOSITES SCIENCE AND TECHNOLOGY, vol.30, no.2, pp.127-135, 1987 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Fractal Dimensions and Entropies of Meragi Songs

Aydemir A., Gunduz G.

NATO Advanced Research Workshop on New Challenges in Complex Systems - Disaster Forecasting, Crisis Modeling and Sustainable Development, Samarkand, Uzbekistan, 20 - 24 May 2013, pp.79-87

II. Preparation and characterization of biodegradable microparticles for anticancer - drug release

Eyovge G., Gunduz U., Gunduz G., Guc E.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.283

Supported Projects

GÜNDÜZ G., Project Supported by Higher Education Institutions, Polimer Esash Opak Pigment Eldesi, Renklendirilmesi Ve Özelliklerinin Belirlenmesi, 2012 - Continues

GÜNDÜZ G., Project Supported by Higher Education Institutions, Mikrodalga Yöntemi İle Çinko Fitalosiyanın Ve Tetranitro Çinko Fitalosiyanın Sentezlenmesi Ve Mika-Titan Pigmenti Üzerine Çöktürülerek Özel Amaçlı Pigment Yapılması, 2011 - 2011

GÜNDÜZ G., Project Supported by Higher Education Institutions, Nano Alüminoksidin Epoksi İle İşlevselleştirilmesi Ve Yüzey Kaplamaları İçin Reçine Üretiminde Kullanılması, 2009 - 2009

Metrics

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