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Eğitim Bilgileri

Doktora, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Türkiye 2001 - 2007

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Türkiye 1998 - 2001

Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1993 - 1997

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Metal Alkoksit Temelli Kompozit Materyal Sentezi ve Boya Adsorpsiyonunda Kullanımı, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2007

Yüksek Lisans, Sulu Çözeltilerde o-Toludinin Elektrokimyasal Polimerizasyon Parametrelerinin İncelenmesi, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2001

Araştırma Alanları

Kimya, Fizikokimya, Nanokompozitler, Temel Bilimler

Akademik Unvanlar / Görevler

Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği Bölümü, 2012 - Devam Ediyor

Akademik İdari Deneyim

Akdeniz Üniversitesi, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği Bölümü, 2012 - Devam Ediyor

Verdiği Dersler

Kompozit Malzemeler, Lisans, 2013 - 2014

Malzeme Bilgisi, Lisans, 2013 - 2014

Genel Kimya, Lisans, 2013 - 2014

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Preparation, characterization of upconverting nanoparticles for uricase immobilization and controlled manipulation of uricase activity by near-infrared light**
Dik G., Ali Noma S. A., ULU A., Topel S. D., Asiltürk M., ATEŞ B.
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- II. **Near-infrared inducible supports in bio-catalysts design: A useful and versatile tool in enhancement of enzyme activity**
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- IV. **Enhancement of enzyme activity by laser-induced energy propulsion of upconverting nanoparticles under near-infrared light: A comprehensive methodology for in vitro and in vivo applications**
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- V. **Investigation of the effect of matrix-interface formed with silane-based coupling agents on physico-chemical behavior and flow distance of dental composites**
Acar Z. Y., Kocyigit M. T., Asiltürk M.
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- VI. **Effects of doping on the thermophysical properties of Ag and Cu doped TiO₂ nanoparticles and their nanofluids**
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- VII. **Development of nanohybrid dental composite containing mesoporous carrier silica particles: Synthesis particles, determination of fluoride adsorption capacities, and addition of the composite**
Yeşil Acar Z., Tunç Koçyiğit M., Asiltürk M.
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- VIII. **An investigation on the influence of hydrolysis ratio and base type on the characterization of synthesised nano-TiO₂ by using sol-gel method**
Acar Z. Y., Asiltürk M.
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- IX. **Experimental Study of Thermal and Pressure Performance of Porous Heat Sink Subjected to Al₂O₃-H₂O Nanofluid**
Ozbalci O., Dogan A., Asiltürk M.
Electronics (Switzerland), cilt.11, sa.15, 2022 (SCI-Expanded)
- X. **Preparation of ceria by combined sol-gel and hydrothermal method: insights from the effects of different bases on the particle size distribution**
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- XI. **Heat Transfer Performance of Plate Fin and Pin Fin Heat Sinks Using Al₂O₃/H₂O Nanofluid in**

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- XII. **Thermal Performance Testing of a Solar Water Heating System Using Core-Shell Structured Nanofluids**
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- XIII. **Adsorption Isotherms, Thermodynamics, and Kinetic Modeling of Methylene Blue onto Novel Carbonaceous Adsorbent Derived from Bitter Orange Peels**
Gunay Gurer A., AKTAŞ K., Ozkaleli Akcetin M., ERDEM ÜNŞAR A., ASİLTÜRK M.
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- XIV. **Cellulose acetate encapsulated upconversion nanoparticles - A novel theranostic platform**
Topel S. D., Balcioğlu S., Ateş B., Asiltürk M., Topel Ö., Ericson M. B.
MATERIALS TODAY COMMUNICATIONS, cilt.26, 2021 (SCI-Expanded)
- XV. **Evaluation on reducing toxicity of fluoxastrobin with doped TiO₂ nanoparticles**
GÜNGÖRDÜ A., ÖZMEN N., ERDEMOĞLU S., ÖZHAN TURHAN D., ASİLTÜRK M., AKGEYİK E., ÖZMEN M.
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- XVI. **Improving heat transfer performance of an automobile radiator using Cu and Ag doped TiO₂ based nanofluids**
Soylu S. K., ATMACA İ., ASİLTÜRK M., DOĞAN A.
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- XVII. **Investigation of The Effect Of TiO₂ Based Nanofluid Usage on Heat Transfer Performance in Automobile Radiator**
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- XVIII. **Three-Dimensional Nano-Morphology of Carbon Nanotube/Epoxy Filled Poly(methyl methacrylate) Microcapsules**
Icduygu M. G., Asiltürk M., Yalcinkaya M. A., Hamidi Y. K., Altan M. C.
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- XIX. **Photocatalytic degradation of azo dye using core@shell nano-TiO₂ particles to reduce toxicity**
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- XX. **Toxicological aspects of photocatalytic degradation of selected xenobiotics with nano-sized Mn-doped TiO₂**
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- XXI. **Effects of coating with different ceromers on the impact strength, transverse strength and elastic modulus of polymethyl methacrylate**
Gul E. B., Atala M. H., Eser B., Polat N. T., ASİLTÜRK M., GÜLTEK A.
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- XXII. **Preparation, Characterization and Photocatalytic Activities of TiO₂-coated Activated Carbon Catalysts for Rhodamine B Photodegradation**
ASİLTÜRK M., Sener S., Sener E.
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- XXIII. **Synthesis of magnetic multicomponent nanoparticles CuxNi1-xFe2O4**
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- XXIV. **Production of stable hydrosols of crystalline TiO₂ nanoparticles synthesized at relatively low temperatures in diverse media**
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- XXV. **IMMOBILIZATION OF GLUCOSE OXIDASE IN SILICA SOL-GEL FILM FOR APPLICATION TO BIOSENSOR AND AMPEROMETRIC DETERMINATION OF GLUCOSE**
DEMİR KIRAN N., EKİNCİ E., ASİLTÜRK M.
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- XXVI. **Hydrophilic hybrid SiO₂:polyethylene glycol-3-isocyanato-propyltriethoxysilane nanocomposite films**
BURUNKAYA E., Kesmez Ö., KİRAZ N., ÇAMURLU H. E., Asilturk M., ARPAÇ E.
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- XXVII. **Sol-gel thin films with anti-reflective and self-cleaning properties**
ÇAMURLU H. E., Kesmez Ö., BURUNKAYA E., KİRAZ N., Yeşil Z., Asilturk M., ARPAÇ E.
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- XXVIII. **TiO₂-activated carbon photocatalysts: Preparation, characterization and photocatalytic activities**
ASİLTÜRK M., Sener S.
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- XXIX. **Effect of acid, water and alcohol ratios on sol-gel preparation of antireflective amorphous SiO₂ coatings**
Kesmez Ö., BURUNKAYA E., KİRAZ N., ÇAMURLU H. E., Asilturk M., ARPAÇ E.
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- XXX. **Preparation of Sn doped nanometric TiO₂ powders by reflux and hydrothermal syntheses and their characterization**
KİRAZ N., BURUNKAYA E., Kesmez Ö., ÇAMURLU H. E., Asilturk M., Yeşil Z., ARPAÇ E.
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- XXXI. **Structural and optical properties of thin films prepared from surface modified ZrO₂**
Asilturk M., BURUNKAYA E., Sayilkan F., KİRAZ N., ARPAÇ E.
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- XXXII. **Antibacterial glass films prepared on metal surfaces by sol-gel method**
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- XXXIII. **Sol-gel synthesis of IPTES and D10H consisting fluorinated silane system for hydrophobic applications**
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- XXXIV. **Sol-gel synthesis of 3-(triethoxysilyl)propylsuccinicanhydride containing fluorinated silane for hydrophobic surface applications**
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- XXXV. **Effect of amine catalysts on preparation of nanometric SiO₂ particles and antireflective films via sol-gel method**
Kesmez Ö., KİRAZ N., BURUNKAYA E., ÇAMURLU H. E., Asilturk M., ARPAÇ E.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, cilt.56, sa.2, ss.167-176, 2010 (SCI-Expanded)
- XXXVI. **Preparation of aluminum-doped zinc oxide (AZO) nano particles by hydrothermal synthesis**
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- XXXVII. **Sn⁴⁺ or Ce³⁺ doped TiO₂ photocatalytic nanometric films on antireflective nano-SiO₂ coated glass**
BURUNKAYA E., KESMEZ O., KİRAZ N., ÇAMURLU H. E., ASİLTÜRK M., ARPAÇ E.
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- XXXVIII. **Roasting-Related Changes in Oxidative Stability and Antioxidant Capacity of Apricot Kernel Oil**
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- XXXIX. **Hydrothermal synthesis and characterization of nanocrystalline ZrO₂ and surface modification with 2-acetoacetoxyethyl methacrylate**
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- JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, cilt.51, sa.2, ss.182-189, 2009 (SCI-Expanded)
- XL. **Photocatalytic antibacterial performance of Sn⁴⁺-doped TiO₂ thin films on glass substrate**
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- XLI. **Effect of Fe³⁺ ion doping to TiO₂ on the photocatalytic degradation of Malachite Green dye under UV and vis-irradiation**
Asilturk M., Sayilkan F., ARPAÇ E.
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- XLII. **Photocatalytic degradation of Congo Red by hydrothermally synthesized nanocrystalline TiO₂ and identification of degradation products by LC-MS**
ERDEMOĞLU S., Aksu S. K., Sayilkan F., İZGİ B., ASİLTÜRK M., Sayilkan H., Frimmel F., Guecer S.
JOURNAL OF HAZARDOUS MATERIALS, cilt.155, sa.3, ss.469-476, 2008 (SCI-Expanded)
- XLIII. **Photocatalytic performance of Sn-doped TiO₂ nanostructured thin films for photocatalytic degradation of malachite green dye under UV and VIS-lights**
Sayilkan F., Asilturk M., TATAR P., KIRAZ N., ŞENER S., ARPAÇ E., Sayilkan H.
MATERIALS RESEARCH BULLETIN, cilt.43, sa.1, ss.127-134, 2008 (SCI-Expanded)
- XLIV. **Preparation of re-usable photocatalytic filter for degradation of Malachite Green dye under UV and vis-irradiation**
SAYILKAN F., Asilturk M., TATAR P., Kiraz N., Arpac E., SAYILKAN H.
JOURNAL OF HAZARDOUS MATERIALS, cilt.148, sa.3, ss.735-744, 2007 (SCI-Expanded)
- XLV. **Antibacterial thin films on glass substrate by sol-gel process**
TATAR P., Kiraz N., Asilturk M., SAYILKAN F., SAYILKAN H., Arpac E.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.17, sa.3, ss.525-533, 2007 (SCI-Expanded)
- XLVI. **Photocatalytic performance of Sn-doped TiO₂ nanostructured mono and double layer thin films for Malachite Green dye degradation under UV and vis-lights**
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JOURNAL OF HAZARDOUS MATERIALS, cilt.144, sa.1-2, ss.140-146, 2007 (SCI-Expanded)
- XLVII. **Photocatalytic performance of Sn-doped and undoped TiO₂ nanostructured thin films under UV and vis-lights**
Arpac E., SAYILKAN F., Asilturk M., TATAR P., Kiraz N., SAYILKAN H.
JOURNAL OF HAZARDOUS MATERIALS, cilt.140, sa.1-2, ss.69-74, 2007 (SCI-Expanded)
- XLVIII. **Hydrothermal synthesis, characterization and photocatalytic activity of nanosized TiO₂ based catalysts for rhodamine B degradation**
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TURKISH JOURNAL OF CHEMISTRY, cilt.31, sa.2, ss.211-221, 2007 (SCI-Expanded)
- XLIX. **Photocatalytic performance of pure anatase nanocrystallite TiO₂ synthesized under low temperature hydrothermal conditions**
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- L. **Characterization of the hydrothermally synthesized nano-TiO₂ crystallite and the photocatalytic degradation of Rhodamine B**
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- LI. **The synthesis and application of Pb-doped GLYMO/chelated-zirconium complex coating materials for UV-light absorption**
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- LII. **Characterization and photocatalytic properties of TiO₂-nanosols synthesized by hydrothermal process at low temperature**
Sayilkan F., Asilturk M., Erdemoğlu S., Akarsu M., Sayilkan H., Erdemoğlu M., Arpac E.

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- LIII. **A novel approach to the hydrothermal synthesis of anatase Titania nanoparticles and the photocatalytic degradation of rhodamine B**
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- LIV. **UV-absorption and thermal properties of Pb-doped glymo/damo-derived coating materials prepared by sol-gel process**
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- LV. **The synthesis and applications of Cr-doped GLYMO and GLYMO/DAMO surface coating systems for absorbing UV-light by sol-gel process**
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- LVI. **Characterization of TiO₂ synthesized in alcohol by a sol-gel process: The effects of annealing temperature and acid catalyst**
Sayilkan F., Asiltürk M., Sayilkan H., Önal Y., Akarsu M., Arpaç E.
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- LVII. **The effect of silane modification on the adsorptive properties of natural pyrophyllite and synthetic titanium-based powders prepared by the sol-gel process**
Şener Ş., Erdemoğlu M., ASİLTÜRK M., Sayilkan H.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **ARSENIC REMOVAL TECHNOLOGIES: MAPPING GLOBAL RESEARCH ACTIVITIES (1970-2019)**
Aktaş K., Karadirek İ. E., Göktepe D. H., Asiltürk Ersoy M., Erdem Ünşar A.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Nanoakışkanlar ve Güneş Enerjili Sıcak Su Sistemlerinde Kullanımı**
ATMACA İ., KOÇAK SOYLU S., ÖZDEMİR O. S., ASİLTÜRK M.
8. Güneş Enerjisi Sistemleri Sempozyumu ve Sergisi, Mersin, Türkiye, 8 - 09 Kasım 2019
- II. **Al₂O₃-Su Nanoakışkan Kullanımının Isınan Bir Yüzeyden Olan Isı Transferine Etkisinin Deneysel Olarak İncelenmesi**
ÖZBALCI O., DOĞAN A., ASİLTÜRK M.
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- III. **Dye adsorption on activated carbon produced from Citrus aurentium peels**
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- IV. **Activated carbon production from local agricultural residue**
GÜNAY A., AKTAŞ K., ÖZKALELİ M., ASİLTÜRK M., ERDEM A.
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- V. **Kinetic study of dye adsorption on activated carbon produced from bitter orange peels**
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- IX. **Nanopartikül tutturulmuş aktif karbon ile ortam havasında uçucu organik bileşik gideriminin değerlendirilmesi**
Olgun B., Erdem Ünşar A., Asiltürk Ersoy M., Doğan G.
VII. Ulusal Hava Kirliliği ve Kontrolü Sempozyumu, Antalya, Türkiye, 1 - 03 Kasım 2017, ss.1-12
- X. **Effect of Total Filler Content and Micron Particle Size on Biomachanical Performance of Nanohybrid Composite Developed for Potential Dental Applications**
YEŞİL ACAR Z., KİRAZ N., ASİLTÜRK M.
V. Uluslararası Polimerikler Sempozyumu ve Çalıştayları, İzmir, Türkiye, 2 - 04 Kasım 2017
- XI. **Development of Multifunctional Cellulose Acetate Micro/Nanocapsules as pH-Responsive Drug Carriers**
DEMİREL TOPEL S., ASİLTÜRK M., TOPEL Ö.
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- XII. **Synthesis and Characterization of Neodymium Sensitized Upconversion Nanoparticles for Bioimaging Applications**
TOPEL Ö., Demirel Topel S., ASİLTÜRK M.
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- XIII. **Magnetic-Upconversion Fe₃O₄-NaGdF₄,Yb₃,Er₃ Luminescence Nanocomposites: Synthesis, Magnetization, Optical Properties And Cytotoxicity**
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