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International Researcher IDs

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Education Information

Doctorate, Koc University, Institute Of Science, Department Of Materials Science And Engineering (Interdisciplinary), Turkey 2015 - 2019

Postgraduate, City University of New York, Fizik, United States Of America 2013 - 2015

Undergraduate, Gebze Technical University, Institute Of Science, Fizik, Turkey 2008 - 2012

Research Areas

Metallurgical and Materials Engineering, Life Sciences, Mathematics, Statistics, Health Sciences, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Aqueous colloidal nanoplates for imaging and improved ALA-based photodynamic therapy of prostate cancer cells**
Onbasli K., Demirci G., Isik F., Durmusoglu E. G., Demir H. V., Acar H. Y.
Chemical Communications, vol.59, no.70, pp.10512-10515, 2023 (SCI-Expanded)
- II. **Image-Guided Enhanced PDT/PTT Combination Therapy Using Brominated Hemicyanine-Loaded Folate Receptor-Targeting Ag₂S Quantum Dots**
Celikbas E., Saymaz A., Gunduz H., Koc I., Cakir E., Sennaroglu A., Kolemen S., Yagci Acar H., Onbaşlı K.
Bioconjugate Chemistry, vol.34, no.5, pp.880-892, 2023 (SCI-Expanded)
- III. **Superior Photodynamic Therapy of Colon Cancer Cells by Selenophene-BODIPY-Loaded Superparamagnetic Iron Oxide Nanoparticles**
Ozvural Sertcelik K. N., KARAMAN O., Almammadov T., GÜNBAS E. G., Kolemen S., Yagci Acar H., Onbasli K.
ChemPhotoChem, vol.6, no.10, 2022 (SCI-Expanded)
- IV. **In-situ synthesis of graphene encapsulated Fe/Fe₂O₃ nanoparticles for possible biomedical applications**
Mertdinç Ülküseven S., Savaci U., Onbasli K., Balci-Cagiran O., Acar H. Y., Öveçoğlu M. L., Ağaoğulları D.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.20, pp.2558-2577, 2022 (SCI-Expanded)
- V. **The improved killing of both androgen-dependent and independent prostate cancer cells by etoposide loaded SPIONs coupled with NIR irradiation**
Onbasli K., Erkisa M., Demirci G., Muti A., Ulukaya E., Sennaroglu A., Yagci Acar H.
Biomaterials Science, vol.10, no.14, pp.3951-3962, 2022 (SCI-Expanded)

- VI. **Development of a cysteine responsive chlorinated hemicyanine for image-guided dual phototherapy**
Savani S., Onbasli K., Gunduz H., Aydindogan E., Erkisa M., Muti A., Khan M., Sennaroglu A., Ulukaya E., Yagci Acar H., et al.
Bioorganic Chemistry, vol.122, 2022 (SCI-Expanded)
- VII. **A leucine aminopeptidase activatable photosensitizer for cancer cell selective photodynamic therapy action**
Arslan B., Bilici K., Demirci G., Almammadov T., Khan M., Sennaroglu A., Acar H. Y., Kolemen S.
Dyes and Pigments, vol.195, 2021 (SCI-Expanded)
- VIII. **Recent Advances in Cyanine-Based Phototherapy Agents**
Bilici K., Cetin S., Aydindogan E., Yagci Acar H., Kolemen S.
Frontiers in Chemistry, vol.9, 2021 (SCI-Expanded)
- IX. **Dual laser activatable brominated hemicyanine as a highly efficient and photostable multimodal phototherapy agent**
Gunduz H., Bilici K., Cetin S., Muti A., Sennaroglu A., Yagci Acar H., Kolemen S.
Journal of Photochemistry and Photobiology B: Biology, vol.217, 2021 (SCI-Expanded)
- X. **Broad spectrum antibacterial photodynamic and photothermal therapy achieved with indocyanine green loaded SPIONs under near infrared irradiation**
Bilici K., Atac N., Muti A., Baylam I., Dogan O., Sennaroglu A., Can F., Yagci Acar H.
Biomaterials Science, vol.8, no.16, pp.4616-4625, 2020 (SCI-Expanded)
- XI. **Ag2S-Glutathione quantum dots for NIR image guided photothermal therapy**
Hashemkhani M., Bilici K., Muti A., Sennaroglu A., Acar H. Y.
New Journal of Chemistry, vol.44, no.14, pp.5419-5427, 2020 (SCI-Expanded)
- XII. **Indocyanine green loaded APTMS coated SPIONs for dual phototherapy of cancer**
Bilici K., Muti A., Sennaroğlu A., Yagci Acar H.
Journal of Photochemistry and Photobiology B: Biology, vol.201, 2019 (SCI-Expanded)
- XIII. **Investigation of the factors affecting the photothermal therapy potential of small iron oxide nanoparticles over the 730-840 nm spectral region**
Bilici K., Muti A., Demir Duman F., Sennaroğlu A., Yağcı Acar H.
Photochemical and Photobiological Sciences, vol.17, no.11, pp.1787-1793, 2018 (SCI-Expanded)
- XIV. **Mechanical, structural, and dynamical modifications of cholesterol exposed porcine aortic elastin**
Bilici K., Morgan S. W., Silverstein M. C., Wang Y., Sun H. J., Zhang Y., Boutis G. S.
Biophysical Chemistry, vol.218, pp.47-57, 2016 (SCI-Expanded)
- XV. **¹³C, ²H NMR studies of structural and dynamical modifications of glucose-exposed porcine aortic elastin**
Silverstein M. C., Bilici K., Morgan S. W., Wang Y., Zhang Y., Boutis G. S.
Biophysical Journal, vol.108, no.7, pp.1758-1772, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fe2B magnetic nanoparticles: Synthesis, optimization and cytotoxicity for potential biomedical applications**
Mertdinç Ülküseven S., Khakzad F., Aslan C., Onbaşlı K., Çevik Ç., İşçi S., Balçı-Çağırın Ö., Yagci Acar H., Öveçoğlu M. L., Ağaogulları D.
Journal of Science: Advanced Materials and Devices, vol.8, no.3, 2023 (Scopus)

Supported Projects

Onbaşlı K., Project Supported by Higher Education Institutions, Prostat kanseri tedavisi için hedefli kuantum noktacıklarının geliştirilmesi, 2023 - Continues

Onbaşlı K., Project Supported by Higher Education Institutions, Prostat kanseri tedavisi için hedefli kombine tedavi potansiyeli olan SPIONların geliştirilmesi, 2023 - Continues