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Personal Information

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Education Information

Post Doctorate, University of California, Los Angeles, College of Letters and Science, Chemistry, United States Of America
2017 - 2019

Doctorate, University of California, Los Angeles, School of Engineering, Biomedical Engineering, United States Of America
2011 - 2017

Postgraduate, University of California, Los Angeles, School of Engineering, Biomedical Engineering, United States Of
America 2009 - 2011

Postgraduate, Ihsan Dogramaci Bilkent University, National Nanotechnology Research Center, Materials Science and
Nanotechnology, Turkey 2007 - 2009

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Biomedical Engineering, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

Research Areas

Biomedical Engineering, Bioengineering and MEMS, MEMS, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , 2020 - Continues

Researcher, University of California, Los Angeles, College of Letters and Science, Chemistry, 2017 - 2019

Research Assistant, University of California, Los Angeles, School of Engineering, Biomedical Engineering, 2011 - 2017

Research Assistant, Ihsan Dogramaci Bilkent University, National Nanotechnology Research Center, Materials Science
and Nanotechnology, 2007 - 2009

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

I. **Methods for fabricating oxygen releasing biomaterials**

ERDEM A., Haghniaz R., ERTAŞ Y. N. , Sangabathuni S. K. , Nasr A. S. , Swieszkowski W., Ashammakhi N.
JOURNAL OF DRUG TARGETING, 2021 (Journal Indexed in SCI)

II. **Advanced Computational Methodologies Used in the Discovery of New Natural Anticancer Compounds**

Chavda V. P. P. , ERTAŞ Y. N. , Walhekar V., Modh D., Doshi A., Shah N., Anand K., Chhabria M.

FRONTIERS IN PHARMACOLOGY, vol.12, 2021 (Journal Indexed in SCI)

- III. **Nanoparticles for Targeted Drug Delivery to Cancer Stem Cells: A Review of Recent Advances**
ERTAŞ Y. N. , Dorcheh K. A. , Akbari A., Jabbari E.
NANOMATERIALS, vol.11, no.7, 2021 (Journal Indexed in SCI)
- IV. **Advances in biomedical applications of self-healing hydrogels**
Rammal H., GhavamiNejad A., ERDEM A., Mbeleck R., Nematollahi M., Emir Diltemiz S., Alem H., Darabi M. A. , ERTAŞ Y. N. , Caterson E. J. , et al.
MATERIALS CHEMISTRY FRONTIERS, vol.5, pp.4368-4400, 2021 (Journal Indexed in SCI)
- V. **Nanotechnology against the novel coronavirus (severe acute respiratory syndrome coronavirus 2): diagnosis, treatment, therapy and future perspectives**
Rashidzadeh H., Danafar H., Rahimi H., Mozafari F., Salehiabar M., Rahmati M. A. , Rahamooz-Haghighi S., Mousazadeh N., Mohammadi A., ERTAŞ Y. N. , et al.
NANOMEDICINE, vol.16, no.6, pp.497-516, 2021 (Journal Indexed in SCI)
- VI. **3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs**
Erdem A., Darabi M., Nasiri R., Sangabathuni S., Ertas Y. N. , Alem H., Hosseini V., Shamloo A., Nasr A., Ahadian S., et al.
ADVANCED HEALTHCARE MATERIALS, vol.9, no.15, 2020 (Journal Indexed in SCI)
- VII. **More Than 12% Polarization and 20 Minute Lifetime of N-15 in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water**
McCormick J., Korchak S., Mamone S., Ertas Y. N. , Liu Z., Verlinsky L., Wagner S., Gloeggler S., Bouchard L.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.57, no.33, pp.10692-10696, 2018 (Journal Indexed in SCI)
- VIII. **Thermal behavior of the molten pool, microstructural evolution, and tribological performance during selective laser melting of TiC/316L stainless steel nanocomposites: Experimental and simulation methods**
AlMangour B., Grzesiak D., Cheng J., Ertas Y. N.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.257, pp.288-301, 2018 (Journal Indexed in SCI)
- IX. **Effects of Cd vacancies and unconventional spin dynamics in the Dirac semimetal Cd₃As₂**
Koumoulis D., Taylor R. E. , McCormick J., Ertas Y. N. , Pan L., Che X., Wang K. L. , Bouchard L.
JOURNAL OF CHEMICAL PHYSICS, vol.147, no.8, 2017 (Journal Indexed in SCI)
- X. **Aqueous Ligand-Stabilized Palladium Nanoparticle Catalysts for Parahydrogen-Induced C-13 Hyperpolarization**
McCormick J., Grunfeld A. M. , Ertas Y. N. , Biswas A. N. , Marsh K. L. , Wagner S., Gloeggler S., Bouchard L.
ANALYTICAL CHEMISTRY, vol.89, no.13, pp.7190-7194, 2017 (Journal Indexed in SCI)
- XI. **Controlled nanocrystallinity in Gd nanobowls leads to magnetization of 226 emu/g**
Ertas Y. N. , Bouchard L. -.
JOURNAL OF APPLIED PHYSICS, vol.121, no.9, 2017 (Journal Indexed in SCI)
- XII. **Surface ligand-directed pair-wise hydrogenation for heterogeneous phase hyperpolarization**
Gloeggler S., Grunfeld A. M. , Ertas Y. N. , McCormick J., Wagner S., Bouchard L. -.
CHEMICAL COMMUNICATIONS, vol.52, no.3, pp.605-608, 2016 (Journal Indexed in SCI)
- XIII. **Supercapacitor behaviors of polyaniline/CuO, polypyrrole/CuO and PEDOT/CuO nanocomposites**
Ates M., Serin M. A. , Ekmen I., Ertas Y. N.
POLYMER BULLETIN, vol.72, no.10, pp.2573-2589, 2015 (Journal Indexed in SCI)
- XIV. **Oxide-Free Gadolinium Nanocrystals with Large Magnetic Moments**
Ertas Y. N. , Jarenwattananon N. N. , Bouchard L.
CHEMISTRY OF MATERIALS, vol.27, no.15, pp.5371-5376, 2015 (Journal Indexed in SCI)
- XV. **High-Throughput and Label-Free Single Nanoparticle Sizing Based on Time-Resolved On-Chip Microscopy**
McLeod E., Dincer T. U. , Veli M., Ertas Y. N. , Chau Nguyen C. N. , Luo W., Greenbaum A., Feizi A., Ozcan A.
ACS NANO, vol.9, no.3, pp.3265-3273, 2015 (Journal Indexed in SCI)
- XVI. **A Nanoparticle Catalyst for Heterogeneous Phase Para-Hydrogen-Induced Polarization in Water**
Gloeggler S., Grunfeld A. M. , Ertas Y. N. , McCormick J., Wagner S., Schleker P. P. M. , Bouchard L.

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.54, no.8, pp.2452-2456, 2015 (Journal Indexed in SCI)

XVII. Effects of multivariate linker substitution, metal binding, and reactor conditions on the catalytic activity of a Pd-functionalized MOF for olefin hydrogenation

Otto T., Jarenwattananon N. N., Gloegler S., Brown J. W., Melkonian A., Ertas Y. N., Bouchard L.

APPLIED CATALYSIS A-GENERAL, vol.488, pp.248-255, 2014 (Journal Indexed in SCI)

XVIII. Microfluidics for reconfigurable electromagnetic metamaterials

Kasirga T. S., Ertas Y. N., Bayindir M.

APPLIED PHYSICS LETTERS, vol.95, no.21, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Role of biomaterials in the diagnosis, prevention, treatment, and study of corona virus disease 2019 (COVID-19)

ERTAŞ Y. N., Mahmoodi M., Shahabipour F., Jahed V., Diltemiz S. E., TUTAR R., Ashammakhi N.

EMERGENT MATERIALS, 2021 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Field-Portable Nanoparticle and Virus Sizing Enabled by On-Chip Microscopy and Vapor-Condensed Nanolenses

McLeod E., Dincer T. U., Veli M., Ertas Y. N., Nguyen C., Luo W., Greenbaum A., Feizi A., Ozcan A.

Conference on Lasers and Electro-Optics (CLEO), San-Jose, Costa Rica, 10 - 15 May 2015

Supported Projects

ERTAŞ Y. N., ÖZTÜRK F., Project Supported by Higher Education Institutions, Yapay Zeka ve Derin Öğrenme Teknikleri ile Patolojik Preperatlardan Meme Kanseri Teşhisi ve Skorlaması, 2020 - Continues

AYDIN Ö., HAMURCU Z., ULUTABANCA H., ERTAŞ Y. N., DENİZ K., DANIŞMAN K., YÜKSEL DURMAZ Y., TAHERİ S., ÖZPOLAT B., ÖZDEMİR A. T., Project Supported by Higher Education Institutions, Lipozom siRNA ve TMZ İkili Tedavisinin Geliştirilmesi ve İn Vivo Fare Glioblastoma Modelinde Odaklanmış Ultrason (FUS) Aracılı İletimi ve Etkilerinin Araştırılması, 2020 - Continues

ÖNSES M. S., ERTAŞ Y. N., YILMAZ E., PEKDEMİR S., TÖRÜN İ., ŞAKİR M., AYDIN Ö., ÖZDEMİR A. T., YILDIZ F., Project Supported by Higher Education Institutions, Sensör Uygulamaları için Nanoyapılı Plazmonik Yüzeylerin Üretimi ve Karakterizasyonu, 2020 - Continues

Scientific Refereeing

PLASMONICS, SCI Journal, March 2020

PLASMONICS, SCI Journal, January 2018

PLASMONICS, SCI Journal, September 2015

PLASMONICS, SCI Journal, January 2015

PLASMONICS, SCI Journal, October 2013

PLASMONICS, SCI Journal, February 2013

PLASMONICS, SCI Journal, August 2011

Plasmonics, SCI Journal, May 2011

PLASMONICS, SCI Journal, March 2011

PLASMONICS, SCI Journal, March 2011

Citations

Total Citations (WOS):296

h-index (WOS):8