

Prof. Nevin Gül Karagüler

Personal Information

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Education Information

Doctorate, University Of Bristol, Biyokimya, United Kingdom 1995 - 2000

Post Graduate, University Of Bristol, Biyokimya, United Kingdom 1994 - 1995

Under Graduate, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1988 - 1992

Dissertations

Doctorate, Improving the characteristics of industrially applicable enzymes, University Of Bristol, Biyokimya, 2000

Post Graduate, The role of glutamate-52 in the mechanism of lactate dehydrogenase, University Of Bristol, Biyokimya, 1995

Research Areas

Life Sciences, Biochemistry, Biomolecules, Enzymology, Proteomics, Biotechnology, Microbial Biotechnology, Environmental Biology, Microbial Diversity, Molecular Biology and Genetics, Protein Engineering, Natural Sciences

Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2010 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2002 - 2010

Lecturer PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2000 - 2002

Research Assistant, Celâl Bayar Üniversitesi, Fen-Edebiyat Fakültesi, 1999 - 2000

Research Assistant, Celâl Bayar Üniversitesi, Fen-Edebiyat Fakültesi, 1993 - 1999

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 2016 - Continues

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji (YI) (Tezli), 2011 - Continues

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji (Dr), 2011 - Continues

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2013 - 2016

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2008 - 2010

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2002 - 2006

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

- I. **Recombinant production and characterization of a novel esterase from a hypersaline lake, Acigol, by metagenomic approach**
Tütüncü H. E. , Çelik Balcı N., Tüter M., Gül Karagüler N.
EXTREMOPHILES, vol.23, no.5, pp.507-520, 2019 (Journal Indexed in SCI)
- II. **Characterization of aquaporin Z-incorporated proteoliposomes with QCM-D**
Sengur-Tasdemir R., Kılıç A., Tutuncu H. E. , Ergon-Can T., Gul-Karaguler N., Ates-Genceli E., Kök F. N. , Koyuncu İ.
SURFACE INNOVATIONS, vol.7, no.2, pp.133-142, 2019 (Journal Indexed in SCI)
- III. **Hollow fiber nanofiltration membranes with integrated aquaporin Z**
Şengür Taşdemir R., Sayinli B., Ürper Bayram G. M. , Tütüncü H. E. , Gül Karagüler N., Ates-Genceli E., Tarabara V. V. , Koyuncu İ.
New Journal of Chemistry, vol.42, no.21, pp.17769-17778, 2018 (Journal Indexed in SCI)
- IV. **Optimisation of micro-arc oxidation electrolyte for fabrication of antibacterial coating on titanium**
Aydoğan D. T. , Muhaffel F., Kilic M. M. , Acar O. K. , Cempura G., Baydoğan M., Gül Karagüler N., Kose G. T. , Czyska-Filemonowicz A., Çimenoğlu H.
MATERIALS TECHNOLOGY, vol.33, no.2, pp.119-126, 2018 (Journal Indexed in SCI)
- V. **Characteristics of multi layer coatings synthesized on Ti6Al4V alloy by micro arc oxidation in silver nitrate added electrolytes**
MUHAFFEL F., Cempura G., MENEKŞE KILIÇ M., CzyskaFilemonowicz A., Gül-karagüler N., ÇİMENOĞLU H.
Surface & Coatings Technology, vol.307, pp.308-315, 2016 (Journal Indexed in SCI Expanded)
- VI. **Semi-Rational Design of Geobacillus stearothermophilus L-Lactate Dehydrogenase to Access Various Chiral alpha-Hydroxy Acids**
Aslan A. S. , Birmingham W. R. , Gül Karagüler N., Turner N. J. , Binay B.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.179, no.3, pp.474-484, 2016 (Journal Indexed in SCI)
- VII. **Characterization of a new acidic NAD(+)-dependent formate dehydrogenase from thermophilic fungus Chaetomium thermophilum**
Ozgun G., KARAGULER N. G. , TURUNEN O., Turner N. J. , Binay B.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.122, pp.212-217, 2015 (Journal Indexed in SCI)
- VIII. **Characteristics of multi-layer coating formed on commercially pure titanium for biomedical applications**
Teker D., MUHAFFEL F., MENEKSE M., KARAGULER N. G. , BAYDOGAN M., CIMENOGLU H.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.48, pp.579-585, 2015 (Journal Indexed in SCI)
- IX. **Direct bioelectrocatalysis at the interfaces by genetically engineered dehydrogenase**
Yucesoy D. T. , Karaca B. T. , Cetinel S., Caliskan H. B. , Adali E., Gül Karagüler N., Tamerler C.
BIOINSPIRED BIOMIMETIC AND NANOBIMATERIALS, vol.4, no.1, pp.79-89, 2015 (Journal Indexed in SCI)
- X. **Effect of surface electrostatic interactions on the stability and folding of formate dehydrogenase from Candida methylica**
Ordu E. B. , Sessions R. B. , Clarke A. R. , KARAGULER N. G.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.95, pp.23-28, 2013 (Journal Indexed in SCI)
- XI. **Bacterial community composition of sediments from Artificial Lake Maslak Istanbul Turkey**
Çelik Balcı N., Nurcan V., Emrah Y., GÜL-KARAGÜLER N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.184, no.9, pp.5641-5650, 2012 (Journal Indexed in SCI)
- XII. **Peptides to bridge biological-platinum materials interface**
Cetinel S., Dincer S., CEBECI A., OREN E. E. , WHITAKER J. D. , SCHWARTZ D. T. , KARAGULER N. G. , SARIKAYA M., TAMERLER C.
BIOINSPIRED BIOMIMETIC AND NANOBIMATERIALS, vol.1, no.3, pp.143-153, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Site Saturation Mutagenesis Applications on Candida methylica Formate Dehydrogenase**
Ozgun G. P. , ORDU E. B. , TUTUNCU H. E. , YELBOGA E., Sessions R. B. , KARAGULER N. G.
SCIENTIFICA, 2016 (Journal Indexed in ESCI)

Books & Book Chapters

- I. **Biomimetic Membrans as on Emerging Water Filtration Technology**
Şengür Taşdemir R., Tütüncü H. E. , Gül Karagüler N., Genceli N. E. , Koyuncu İ.
in: Biomimetic Lipid Membranes: Fundamentals, Applications, and Commercialization, Fatma Neşe Kök,Ahu Arslan Yıldız,Fatih İnci, Editor, Springer, London/Berlin , London, pp.249-283, 2019
- II. **Proteinlerin yapısı ve işlevleri**
Kök F. N. , Gül-karagüler N.
in: Moleküler Biyoloji, Karataş M., Editor, Nobel Akademik Yayıncılık, Ankara, pp.60-84, 2012

Supported Projects

- Gül Karagüler N., Mumcu H., Project Supported by Higher Education Institutions, Thermoanaerobium brockii amilopolulanaz enziminin rekombinant olarak üretilmesi ve karakterizasyonu, 2017 - 2019
- Gül Karagüler N., Project Supported by Higher Education Institutions, Metagenomics Approach for Obtaining Novel Industrial Enzymes from Lake Acıgöl in Turkey, 2016 - 2018
- Gül Karagüler N., Project Supported by Higher Education Institutions, Halofilik ve asidofilik koşullardan novel lipaz enzimlerinin eldesi, 2016 - 2017
- Gül Karagüler N., Project Supported by Higher Education Institutions, Yüksek sıcaklığa dayanıklı candida methylica FDH enziminin spesifik aktivitesinin arttırılması, 2016 - 2016
- Gül Karagüler N., Project Supported by Higher Education Institutions, Enzim Kaplamasına Dayalı Yöntemler Kullanılarak Biyofilm oluşumunun Engellenmesi, 2011 - 2016
- Gül Karagüler N., Project Supported by Higher Education Institutions, Application of Rational Design Strategies to Canadida Methlica Formate Dehydrogenase ans Bacillus Stearothermophilus Lactate Dehydrogenase, 2010 - 2016
- Gül Karagüler N., Project Supported by Higher Education Institutions, BÖLGE SATURASYON MUTAGENEZ TEKNİĞİ KULLANILARAK ENDÜSTRİYEL ÖNEME SAHİP FORMAT DEHİDROGENAZ ENZİMİNİN TERMOSTABİLİTESİNİN ARTTIRILMASI, 2009 - 2016
- Gül Karagüler N., Project Supported by Higher Education Institutions, Yeni Hidrolaz Enzimlerinin Ekstrem Ortamlardan İzolasyonu, 2010 - 2012
- Gül Karagüler N., Project Supported by Higher Education Institutions, Bacillus Stearothermophilus'dan İzole Edilen L-Laktat Dehidrojenazının Substrat İnhibisyonunun Bölgeye Spesifik özel Mutasyon Tekniği ile engellenmesi, 2003 - 2006

Citations

Total Citations (WOS):233

h-index (WOS):7