Academic curriculum vitae of

Deniz Eren Erişen

Post-Doctoral Researcher at College of Material Science and Technology Nanjing University of Aeronautics and Astronautics (NUAA) Jiangning District, Nanjing City , Jiangsu, China P.R

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Born: 04.02.1990, İstanbul, Türkiye

Nationality; Türkiye (from Pınarhisar, Kırklareli)

Languages:

Turkish, English, Chinese

Education:

- **Doctor of Engineer at Material Science and Engineering,** University of Science and Technology of China, College of Material Science and Engineering (USTC), Shenyang, Liaoning, China
  (2017-2022)
- **Master of Engineer at Material Science** at Nanjing University of Aeronautics and Astronautics (NUAA) Nanjing, Jiangsu, China
  (2013-2016)
- **Bachelor of Science at. Material Science and Engineering** at Anadolu University (now Eskisehir Technical University), Eskisehir, Türkiye
  (2008 – 2013)

Research Topics:

- Biomedical Materials
- Bioactive materials
- Biopolymers

- Biodegradable Metals and Polymers
- Synthesis and characterization of organic-organic and organic-inorganic interfaces and surfaces
- Sustainability
- Nanomaterials

Work Experiences:

- **April 2023 - Present** Postdoctoral Researcher at **NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS**, Nanjing, Jiangsu, China
- **December 2021 – June 2022** Invited Lecturer at **GUIYANG MEDICAL UNIVERSITY** (Organic Chemistry, Inorganic Chemistry and Thermochemistry Lectures), Guizhou, China
- **March 2018 – June 2022** PhD Fellow at **INSTITUTE OF METAL RESEARCH, CHINA ACADEMY OF SCIENCE**, Shenyang, Liaoning, China
- **June 2016 – February 2017** Project Planning Engineer at **CETA MAKINA**, Kırklareli, Türkiye
- **September 2015 – April 2016** Graduate Technical Intern at **B/S/H CHINA**, Nanjing, China
- **March 2014 – May 2015** Research Intern at **SUZHOU VIP NEW MATERIAL CO** Taicang, Jiangsu, China
- **August 2011 September 2011** Intern at **SISECAM'S GLASS RESEARCH CENTER,** Topkapı, Türkiye

HONORS, AWARDS, SCHOLARHIPS:

- China Scholarship Council (CSC) Full Scholarship 2013-2016
- CSC Full Scholarship 2017-2021
- Higher Education Council of Türkiye (YÖK) 100/2000 PhD Scholarship 2016

CERTIFICATES:

- Academic Research Ethics Education Courses by **Center of Taiwan Academic Research Ethics Education**
- Introduction to High-Throughput Materials Development by **Georgia Institute of Technology**
- Reasoning, Data Analysis, and Writing Specialization by **Duke University**
- How Green Is That Product? An Introduction to Life Cycle Environmental Assessment by

Northwestern University

- Introduction to Molecular Spectroscopy by **The University of Manchester**
- United Nations Sustainable Development Goals and the Rule of Law by **National Yang Ming Chiao Tung University**

Publications as the First Author:

1. Erisen, D. E., & Uludag, K. (2024). Estimating Biosafety of Biodegradable Biomedical Materials From In Vitro Ion Tolerance Parameters and Toxicity of Nanomaterials in Brain. In *Transformative Approaches to Patient Literacy and Healthcare Innovation* (pp. 201–221). https://doi.org/10.4018/979-8-3693-3661-8.ch010
2. Erişen, D. E., Gu, G., Chen, S., Yang, K., Zhang, B., Shen, M., & Chen, Z. (2022). Synthesis of chitosan-Cu based bioactive material for coating catheters: in vitro cytotoxicity evaluation. *Materials Research Express*, *9*(12), 125402. https://doi.org/10.1088/2053-1591/acad67
3. Chen, Z. F., & Erişen, D. E. (2016). Sepiolite for powder-glass fiber hybrid core materials for vacuum insulated panels: Critical inner pressure and thermal insulation performance for long service-time approach. *Journal of Thermal Engineering*, *2*(6), 978–982. https://doi.org/10.18186/jte.18754
4. Erişen, D. E., Gu, G., Liu, M., Zhang, B., Yang, K., & Chen, S. (2022). A novel chitosan and polydopamine interlinked bioactive coating for metallic biomaterials. *Journal of Materials Science: Materials in Medicine*, *33*(10), 65. https://doi.org/10.1007/s10856-022-06688-x
5. Erişen, D. E., Zhang, Y., Zhang, B., Yang, K., Chen, S., & Wang, X. (2022). Biosafety and biodegradation studies of AZ31B magnesium alloy carotid artery stent in vitro and in vivo. *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, *110*(1), 239–248. https://doi.org/10.1002/jbm.b.34907
6. Gu, G., Erişen, D. E., Yang, K., Zhang, B., Shen, M., Zou, J., … Xu, X. (2022). Antibacterial and *anti-inflammatory* activities of chitosan/copper complex coating on medical catheters: In vitro and in vivo. *Journal of Biomedical Materials Research Part B: Applied Biomaterials, 110*(8), 1899–1910. https://doi.org/10.1002/jbm.b.35047

Co-Authored Publications:

1. Wang, L., Erişen, D. E., Yang, K., Zhang, B., Guan, H., & Chen, S. (2020). Anticoagulation and antibacterial functional coating on vascular implant interventional medical catheter. *Journal of Biomedical Materials Research. Part B, Applied Biomaterials*, 108(7), 2868–2877. https://doi.org/10.1002/jbm.b.34618
2. Wu, Q., Chen, Z., Ding, Y., Yin, L., Yang, M., Erişen, D. E., … Cui, S. (2024). A flexible double network aerogel reinforced by SiO2/ZrO2 fibers paper with excellent thermal insulation at high-temperature. Ceramics International, 50(1), 55–64. https://doi.org/10.1016/j.ceramint.2023.09.283
3. Ding, Y., Yang, L., Yang, M., Chen, Z., Song, K., Wang, Y., … Kou, Z. (2023). Electrospinning of SiO2-based composites embedded TiO2 nanoparticles with ultra-strong suppression of radiative heat transfer. *Journal of Alloys and Compounds,*957.

https://doi.org/10.1016/j.jallcom.2023.170331
4. Ding, Y., Yang, L., Yang, M., Yin, L., Wu, Q., Wang, Y., … Kou, Z. (2023). Optimization of ultralight SiO2/TiO2 nanofibrous aerogel for high-temperature application. *Ceramics International*, 49(23), 38058–38069. https://doi.org/10.1016/j.ceramint.2023.09.136
5. Yang, L., Ding, Y., Yang, M., Wang, Y., Erişen, D. E., Chen, Z., … Zheng, G. (2022). Ultra-Light and Ultra-Low Thermal Conductivity of Elastic Silica Nanofibrous Aerogel with TiO2 Opacifier Particles as Filler. *Nanomaterials,* 12(22). https://doi.org/10.3390/nano12223928
6. Chen, S., Wan, P., Zhang, B., Eren Erişen, D., Yang, H., & Yang, K. (2019). A novel polymer critical re-melting treatment for improving corrosion resistance of magnesium alloy stent. *Journal of Materials Science and Technology*, 35(1), 19–22. https://doi.org/10.1016/j.jmst.2018.09.021

Organizations:

- 2023 IFSIM International Forum of Super Insulation Materials Taicang
- 2023 IFSIM International Forum of Super Insulation Materials Suqian
- International Energy Agency Annex 65, Long-Term Performance of Super-Insulating-Materials in Building Components and Systems
- 12th International Vacuum Insulation Symposium (IVIS 2015) Nanjing

References:

✧ Prof.Dr. Zhaofeng Chen, Head of Supers Insulation Composites Laboratory, Nanjing University of Aeronautics of China, zhaofeng_chen@163.com
✧ Prof.Dr. Ke Yang, former head of Advanced Material and Devices Section of Shi-Changxu Innovation Center at Metal Research Institute, China Academy of Science, kyang@imr.ac.cn