

Practice Areas

- Intellectual Property

Education

- Ph.D., Applied Physics, Rice University (2021)
- M.S., Applied Physics, Rice University (2020)
- M.S., Electrical Engineering, Florida International University (2018)
- B.S., Electrical and Electronics Engineering (Magna Cum Laude), Turgut Ozal University (2015)

Honors

- Guest Editor to a Special Issue in MDPI Nanomaterials (2021)
- Guest Editor to a Special Issue in MDPI Biosensors (2020)
- Member of the Reviewer Board of MDPI Nanomaterials (2020-Present)
- Recipient of the MDPI Nanomaterials 2020 Outstanding Reviewer Award
- Member of the Turkish-American Medical Association (2019-Present)

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As a Robert A. Welch Fellow at Rice University, Dr. Burak Gerislioglu earned his Ph.D. investigating theoretical and experimental light-matter interactions. His research outcomes yielded 44 peer-reviewed articles in leading journals and major conference proceedings, such as Materials Today, Nano Today, Nano Letters, Laser and Photonics Reviews, Materials Today Physics, AAAS Research, Biosensors and Bioelectronics, PNAS Nexus, Advanced Optical Materials, Advanced Electronic Materials, GOMACTech Conference, MRS Meeting, APS Meeting, SPIE Nanoscience + Engineering and more.

Burak serves as an invited referee for Science, Nature, WILEY, ACS, RSC, OSA, IOP, De Gruyter, Cell Press, IEEE, Elsevier, PLOS, Springer, AIP, MDPI, LIDSEN, Bentham Science Journal Families and holds two U.S. patents (10,288,563 and 9,923,267). Burak is a member of the Topical Advisory Panel of MDPI Nanomaterials' "Solar Energy and Solar Cells" section. He also serves as a Guest Editor to the MDPI Biosensors and MDPI Nanomaterials journals, where he currently sits on the Reviewer Board. He is a recipient of MDPI Nanomaterials' 2020 Outstanding Reviewer Award.

His research interests include nanotechnology, nanophotonics, plasmonics, phase-change materials, AR/VR, optical biosensors, electronics engineering, telecom, and computer architecture & information security.