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Research Areas

Electromagnetic in Biology and Medicine, Electromagnetic Waves, Antennas and Propagation, Photonic Band Spacing Structures

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Computational design of nanoantennas with improved power enhancement capabilities via shape optimization**
Işiklar G., Yazar Ş., Ibili H., Onay G., El Ahdab Z., Ergül Ö.
Optical Engineering, vol.62, no.1, 2023 (SCI-Expanded)

II. **Design and optimization of nanooptical couplers based on photonic crystals involving dielectric rods of varying lengths**
YAZAR Ş., ERGÜL Ö. S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.6, pp.2339-2354, 2022 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Rapid Optimization of Dielectric Rod Arrays for Microwave Radiation Shaping Applications**
YAZAR Ş., Hatipoglu M. E., Eris O., Ergul O., Dikmen F.
2023 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization, NEMO 2023, Hybrid, Winnipeg, Canada, 28 - 30 June 2023, pp.107-109

II. **Design of Dielectric Structures with Nonuniform Holes Optimized for Backscattering Reduction**
Yazar Ş., Ergül Ö.
17th European Conference on Antennas and Propagation, EuCAP 2023, Florence, Italy, 26 - 31 March 2023

III. **2D Regularized T-Matrix Method for Acceleration of 3D Simulations During Optimization of Rod Arrays for NZI Materials**
Hatipoglu M. E., Eris O., Yazar Ş., Dikmen F., Ergul Ö. S.

2nd IEEE Ukrainian Microwave Week, UkrMW 2022, Kharkiv, Ukraine, 14 - 18 November 2022, pp.203-206

IV. **Design and Optimization of Nano-Optical Isolators Based on Irregular Arrangements of Dielectric Rods**

Yazar Ş., Ergül Ö.

2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, AP-S/URSI 2022, Colorado, United States Of America, 10 - 15 July 2022, pp.77-78

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Publication: 9

Citation (Scopus): 1

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