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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Arizona State University, Electrical Engineering, Amerika Birleşik Devletleri 1991 - 1995

Araştırma Alanları

Elektromanyetik Dalgalar, Antenler ve Propagasyon

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Analysis of emission properties of intermixed InGaN/GaN quantum wells using a concentration-dependent interdiffusion model**
Susilo T. B. , Khan I, ALSUNAIDI M.
European Physical Journal D, cilt.73, sa.12, 2019 (SCI İndekslerine Giren Dergi)
- II. **Characterization of atmospheric absorption in the 60 GHz frequency band using a multi-pole material model**
Arvas M., Arvas E., ALSUNAIDI M.
Applied Computational Electromagnetics Society Journal, cilt.34, sa.12, ss.1881-1887, 2019 (SCI İndekslerine Giren Dergi)
- III. **Numerical study of propagation properties of surface plasmon polaritons in nonlinear media**
Sagor R. H. , Ghulam Saber M., Alsunaidi M.
European Physical Journal D, cilt.70, sa.3, 2016 (SCI İndekslerine Giren Dergi)
- IV. **A possible approach on optical analogues of gravitational attractors** Damián P. San-Román-Alerigi1
Slimane A. B. , Ng T. K. , Alsunaidi M., Ooi B. S.
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- V. **Electron irradiation induced reduction of the permittivity in chalcogenide glass (As₂S₃) thin film**
San-Román-Alerigi D. P. , Anjum D. H. , Zhang Y., Yang X., Benslimane A., Ng T. K. , Hedhili M. N. , Alsunaidi M., Ooi B. S.
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- VI. **A simple FDTD algorithm for simulating EM-wave propagation in general dispersive anisotropic material**
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- VII. **Generation of J₀-Bessel-Gauss beam by a heterogeneous refractive index map**
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- VIII. **Efficient NL-FDTD solution schemes for the phase-sensitive second harmonic generation problem**
Alsunaidi M., Al-Hajiri F. S.

- Journal of Lightwave Technology, cilt.27, sa.22, ss.4964-4969, 2009 (SCI İndekslerine Giren Dergi)
- IX. **An efficient time-domain algorithm for the simulation of heterogeneous dispersive structures**
Al-Jabr A., Alsunaidi M.
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- X. **A new carrier-free nonlinear FDTD algorithm suitable for the moving computational window technique**
Alsunaidi M., Al-Mudhaffar H. M.
IEEE Photonics Technology Letters, cilt.21, sa.13, ss.878-880, 2009 (SCI İndekslerine Giren Dergi)
- XI. **A general ADE-FDTD algorithm for the simulation of dispersive structures**
Alsunaidi M., Al-Jabr A. A.
IEEE Photonics Technology Letters, cilt.21, sa.12, ss.817-819, 2009 (SCI İndekslerine Giren Dergi)
- XII. **A FDTD algorithm for the analysis of short optical pulse second harmonic generation in dispersive media**
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Microwave and Optical Technology Letters, cilt.51, sa.4, ss.1097-1100, 2009 (SCI İndekslerine Giren Dergi)
- XIII. **Vectorial FDTD technique for the analysis of optical second-harmonic generation**
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- XIV. **Influence of electrode parameters on the performance of optically controlled MESFETs**
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Optics and Laser Technology, cilt.40, sa.5, ss.711-715, 2008 (SCI İndekslerine Giren Dergi)
- XV. **Optoelectronic conversion of short pulses in sub-micrometer gas active devices**
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- XVI. **FDTD analysis of microstrip patch antenna on ferrite substrate**
Alsunaidi M.
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- XVII. **Simulation of beam propagation in second-order nonlinear optical media**
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- XVIII. **An explicit finite-difference scheme for wave propagation in nonlinear optical structures**
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Alsunaidi M.
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- XXIII. **FDTD simulation of antenna coating effects on the radiation properties of cellular phones**
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- XXV. **PML-FDTD formulation for the simulation of optical structures**
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- XXVI. **Determination of the permittivity of spherical scatterers using a neural network approach**
Hamid A., AlSunaidi M.
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- XXVII. **A parallel implementation of a two-dimensional hydrodynamic model for microwave semiconductor device including inertia effects in momentum relaxation**
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- XXVIII. **Electromagnetic wave effects on microwave transistors using a full-wave time-domain model**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Electromagnetic field coupling between cellular phones using FDTD analysis**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Analysis of oxygen absorption at 60 GHz frequency band**
Arvas M., ALSUNAIIDI M.
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- II. **A novel EBG structure to improve isolation in MIMO antenna**
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- III. **Plasmonic Nanostructured Cellular Automata**
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- IV. **Analysis of nanoscale voids in nanorod plasmonic clusters for imaging applications**
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- V. **Efficient light extraction from GaN LEDs using gold-coated ZnO nanoparticles**
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2015 IEEE 8th GCC Conference and Exhibition, GCCCE 2015, Muscat, Umman, 1 - 04 Şubat 2015
- VII. **Intermixing effects on emission properties of InGaN/GaN coupled Quantum wells**
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Shemis M., Gondal M., Alkhazraji E., Najmi M., Abalkhail M., Khan I., Susilo T., Rashid S., Alsunaidi M.
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- IX. **An FDTD algorithm for simulating light propagation in anisotropic dynamic gain media**
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- X. **Photonic analogies of gravitational attractors**
San-Roman-Alerigi D. P. , Ng T. K. , Slimane A. B. , Zhang Y., Ooi B. S. , Alsunaidi M.
2013 Saudi International Electronics, Communications and Photonics Conference, SIECPC 2013, Riyadh, Suudi Arabistan, 27 - 30 Nisan 2013
- XI. **Effective antireflection properties of porous silicon nanowires for photovoltaic applications**
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- XII. **TE photonic modes in metal-insulator-metal structures**
Khan M. Z. U. , Mujahid M., Alsunaidi M.
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- XIII. **Plasmonic cavities for enhanced optical confinement**
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- XIV. **An FDTD algorithm for simulation of em waves propagation in laser with static and dynamic gain models**
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- XVI. **SPP propagation in nonlinear glass-metal interface**
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- XXII. **Full-wave solution of the second harmonic generation problem using a nonlinear FDTD algorithm**
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- XXIV. **Effects of electrode spacing on the response of optically controlled MESFETs**
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- XXV. **DC characteristic analysis using physical model and the FDTD method for the illuminated MESFET**
Kuwayama T., Kawasaki S., Alsunaidi M.
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- XXVII. **Inverse scattering by dielectric circular cylindrical scatterers using a neural network approach**
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- XXVIII. **Performance comparison of MODFET and MESFET using combined electromagnetic and solid-state simulator**
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Proceedings of the 1996 IEEE MTT-S International Microwave Symposium Digest. Part 1 (of 3), San-Francisco, Kostarika, 17 - 21 Haziran 1996, cilt.3, ss.1783-1786
- XXIX. **Electron-wave interaction in submicrometer gate field-effect transistors**
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Proceedings of the 1995 IEEE MTT-S International Microwave Symposium. Part 1 (of 3), Orlando, FL, USA, 16 - 20 Mayıs 1995, cilt.3, ss.1257-1260
- XXX. **High-frequency large-signal physical modeling of microwave semiconductor devices**
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Atıflar

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