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Ph.D. Student in Applied Physics, admitted Autumn 2019

Publications

PUBLICATIONS

- **Exact Markovian and non-Markovian time dynamics in waveguide QED: collective interactions, bound states in continuum, superradiance and subradiance** *QUANTUM*
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- **The effective geometry Monte Carlo algorithm: Applications to molecular communication** *PHYSICS LETTERS A*
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- **A General Analytical Approximation to Impulse Response of 3-D Microfluidic Channels in Molecular Communication** *IEEE TRANSACTIONS ON NANOBIOSCIENCE*
Dinc, F., Akdeniz, B., Pusane, A., Tugcu, T.
2019; 18 (3): 396–403
- **Analytical derivation of the impulse response for the bounded 2-D diffusion channel** *PHYSICS LETTERS A*
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- **Analytical estimation for the impulse response of an n-dimensional diffusion channel with an absorbing receiver** *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*
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2019; 52 (11)
- **Non-Markovian super-superradiance in a linear chain of up to 100 qubits** *Physical Review Research*
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2019; 1 (3): 032042
- **Effective Geometry Monte Carlo: A Fast and Reliable Simulation Framework for Molecular Communication** *IEEE ACCESS*
Dinc, F., Medvidovic, M., Thiele, L.
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- **Increased yield of MoS₂ monolayer exfoliation through the bimetallic corrosion of aluminum** *APPLIED PHYSICS LETTERS*
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- **Quantum mechanical treatment of two-level atoms coupled to continuum with an ultraviolet cutoff** *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*

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- **Impulse Response of the Molecular Diffusion Channel With a Spherical Absorbing Receiver and a Spherical Reflective Boundary** *IEEE Transactions on Molecular, Biological and Multi-Scale Communications*

Dinc, F., Akdeniz, B. C., Pusane, A. E., Tugcu, T.
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