



# Jahanfar Abouie

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## Publications

### Journals

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- D. Vashaee, and J. Abouie, "Microwave-induced cooling in double quantum dots: Achieving millikelvin temperatures to reduce thermal noise around spin qubits", Phys. Rev. B, Vol. 111, pp. 14305-2025, doi: [10.1103/PhysRevB.111.014305](https://doi.org/10.1103/PhysRevB.111.014305)
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- J. Abouie, and M. H. Zarei, "Partially topological phase in a quantum loop gas model with tension and pressure", Phys. Rev. B, Vol. 108, pp. 165133-2023, doi: [10.1103/PhysRevB.108.165133](https://doi.org/10.1103/PhysRevB.108.165133)
- N. Ahmadi, J. Abouie, R. Haghshenas, and D. Baeriswyl, "Frustrated mixed-spin ladders: Evidence for a bond-order wave phase between rung-singlet and Haldane phases", Phys. Rev. B, Vol. 106, NO. 174419, 2022, doi:



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- A. N. Zarezad, and J. Abouie, "Transport in two-dimensional Rashba electron systems doped with interacting magnetic impurities", Phys. Rev. B, Vol. 101, NO. 115412, 3, 2020, doi: [10.1103/PhysRevB.101.115412](https://doi.org/10.1103/PhysRevB.101.115412)
- N. Ahmadi, J. Abouie, and D. Baeriswyl, "Topological and nontopological features of generalized Su-Schrieffer-Heeger models", Phys. Rev. B, Vol. 101, NO. 195117, 5, 2020, doi: [10.1103/PhysRevB.101.195117](https://doi.org/10.1103/PhysRevB.101.195117)
- F. Heydarinasab and J. Abouie, "Mixed-spin system with supersolid phases: Magnetocaloric effect and thermal properties", Journal of Physics: Condensed Matter, Vol. 32, NO. 16, 1, 2020, doi: [10.1088/1361-648X/ab61ca](https://doi.org/10.1088/1361-648X/ab61ca)
- S. Abdizadeh, J. Abouie, and Kh. Zakeri, "Dynamical switching of confined skyrmions under circular magnetic field", Phys. Rev. B, Vol. 101, NO. 24409, 1, 2020, doi: [10.1103/PhysRevB.101.024409](https://doi.org/10.1103/PhysRevB.101.024409)
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