

List of publications of Claudio Verdozzi

Articles submitted

1. E. Viñas Boström, A. Rubio, and C. Verdozzi, *Microscopic Theory of Ultrafast Skyrmion Excitation by Light*, submitted (arXiv:2010.16125), submitted

Peer-reviewed articles

60. J. Schmidt, L. Pettersson, C. Verdozzi, S. Botti, and M. A. L. Marques, *Crystal graph attention networks for the prediction of stable materials*, Science Advances **7**, 49 (2021).
59. S. Di Sabatino, C. Verdozzi, and P. Romaniello, *Time dependent reduced density matrix functional theory at strong correlation: insights from a two-site Anderson impurity mode*, Phys. Chem. Chem. Phys. **23**, 16730 (2021).
58. J.-P. Joost, N. Schlünzen, S. Hese, M. Bonitz, C. Verdozzi, P. Schmitteckert, M. Hopjan, *Löwdin's symmetry dilemma within Green functions theory for the one-dimensional Hubbard model*, Contrib. Plasma Phys. 2021; e202000220.
57. L. Wittenbecher, E. Viñas Boström, J. Vogelsang, S. Lehman, K. A. Dick, C. Verdozzi, D. Zigmantas, and A. Mikkelsen, *Unraveling the Ultrafast Hot Electron Dynamics in Semiconductor Nanowires*, ACS Nano **15**, 1133 (2021).
56. E. Viñas Boström, A. D'Andrea, M. Cini, and C. Verdozzi, *Time-resolved multiphoton effects in the fluorescence spectra of two-level systems at rest and in motion*, Phys. Rev. A **102**, 013719 (2020).
55. E. Viñas Boström, P. Helmer, P. Werner, and C. Verdozzi, *Electron-electron versus electron-phonon interactions in lattice models: Screening effects described by a density functional theory approach*, Phys. Rev. Research **1**, 013017 (2019).
54. E. Viñas Boström and C. Verdozzi, *Steering Magnetic Skyrmions with Currents: A Nonequilibrium Green's Function Approach*, Physica Status Solidi **b**, 1800590 (2019).
53. M. Hopjan and C. Verdozzi, *Initial correlated states for the Generalized Kadanoff–Baym Ansatz without adiabatic switching-on of interactions in closed systems*, to appear in *Non-equilibrium dynamics*, Eur. Phys. J. Special Topics, e2018-800054-3 (2019).
52. E. Viñas Boström, M. Gisselbrecht, T. Brage, C.-O. Almbladh, A. Mikkelsen, and C. Verdozzi, *Time-Stretched Spectroscopy by Quantum Zeno Effect: The Case of the Auger Decay*, Phys. Rev. Lett. **121**, 233201 (2018).
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50. S. Ydman, M. Hopjan, and C. Verdozzi, *Controlling Nonequilibrium Kondo-vs-RKKY Scenarios in Nanoclusters*, EPL **123**, 47001 (2018).
49. M. Hopjan, E. Perfetto, G. Stefanucci, and C. Verdozzi, *Molecular Junctions and Molecular Motors: Including Electronic Correlations via Nonequilibrium Green's Functions*, Phys. Rev. **B 98**, 041405(R) (2018).
48. D. Karlsson, M. Hopjan, and C. Verdozzi, *Systems with disorder, interactions, and out of equilibrium: The exact independent-particle picture from density functional theory*, Phys. Rev. **B 97**, 125151 (2018).

47. E. Boström, A. Mikkelsen, C. Verdozzi, E. Perfetto, and G. Stefanucci, *Charge separation in donor-C60 complexes with real-time Green's functions: The importance of nonlocal correlations*, Nano Lett. **18**, 785 (2018).
46. E. Mårzell, E. Boström, A. Harth, A. Losquin, C. Guo, Y.-C. Cheng, E. Lorek, S. Lehmann, G. Nylund, M. Stankovski, C. L. Arnold, M. Miranda, K. A. Dick, J. Mauritsson, C. Verdozzi, A. L'Huillier, and A. Mikkelsen, *Spatial Control of Multiphoton Electron Excitations in InAs Nanowires by Varying Crystal Phase and Light Polarization*, Nano Lett. **18**, 907 (2018).
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42. D. Karlsson and C. Verdozzi, *Transport of Correlated Electrons through Disordered Chains: A Perspective on Entanglement, Conductance, and Disorder Averaging*, Phys. Rev. B **90**, 201109(R), (2014).
41. M. Hopjan and C. Verdozzi, *Probing Strongly Correlated Materials in Nonequilibrium: Basic Concepts and Possible Future Trends in First Principle Approaches*, Topics in Current Chemistry **347**, 347 (2014).
40. A. Kartsev, C. Verdozzi, G. Stefanucci, *Nonadiabatic Van der Pol oscillations in molecular transport*, The European Physical Journal B **87**, 1 (2014)
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Other publications

Reviews

1. C. Verdozzi, *Exact diagonalization studies of strongly correlated clusters*, Lecture notes for the Doctorate Programme in Materials Science, University of Milano-Bicocca, Italy (2005).

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