Selected Publications in no particular order

1. **Observation of shell effects in superconducting nanoparticles of Sn**
   S. Bose, A. M. García-García, M. M. Ugeda, J. D. Urbina, C. H. Michaelis, I. Brihuega and K. Kern**,** Nature Materials 9, 550 (2010).

2. **Real-space visualization of multifractal superconductivity in single-layer NbSe2**
   Carmen Rubio-Verdú, Antonio M. García-García*, Hyejin Ryu, Deung-Jang Choi, Javier Zaldívar, Shujie Tang, Zhi-Xun Shen, Sung-Kwan Mo, José Ignacio Pascual, Miguel M. Ugeda, Nano Lett. 2020, 20, 7, 5111.

3. **Sparse Sachdev-Ye-Kitaev model, quantum chaos and gravity duals**
   Antonio M. García-García*, Yiyang Jia, Dario Rosa, Jacobus J. M. Verbaarschot, arXiv:2007.13837

4. **Quantum chaos transition in a two-site SYK model dual to an eternal traversable wormhole**
   A. M. García-García, T. Nosaka, D. Rosa, J. J. M. Verbaarschot, Phys. Rev. D 100, 026002 (2019)

5. **Generic dynamical features of quenched interacting quantum systems: survival probability, density imbalance and out-of-time-ordered correlator**
   E. J. Torres-Herrera, A. M. García-García *, L. F. Santos, Phys. Rev. B 97, 0603032 (2018) (Rapid).

6. **Chaotic-Integrable transition in the Sachdev-Ye-Kitaev model**
   A. M. García-García*, B. Loureiro, A. Romero-Bermúdez, M. Tezuka, Phys. Rev. Lett. 120, 241603 (2018).

7. **Analytical Spectral Density of the Sachdev-Ye-Kitaev Model at finite N**
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8. **Optical signatures of the superconducting Goldstone mode in granular aluminum: experiments and theory**
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10. **Universal clusters as building blocks of stable quantum matter**
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11. **BCS theory for finite size superconductors**

A. M. García-García, J. D. Urbina, E. Yuzbashyan, K. Richter and B. Altshuler, Phys. Rev. Lett., 100, 187001 (2008).

12. A semiclassical theory of the Anderson transition
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13. Dissipation in a simple model of a topological Josephson junction
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14. A general class of holographic superconductors
S. Franco, A.M. García-García, D. Rodriguez, JHEP 4 (2010) 092, arXiv:0906.1214.

15. Experimental observation of thermal fluctuations in single superconducting Pb nanoparticles through tunneling measurements
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16. Spectral and thermodynamic properties of the Sachdev-Ye-Kitaev model
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17. Strong enhancement of bulk superconductivity by engineering granular materials
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