

# László Oroszlány

## List of Publications by Year in descending order

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22  
papers

1,079  
citations

840776

11  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1512  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Short Course on Topological Insulators. Lecture Notes in Physics, 2016, , .   | 0.7  | 604       |
| 2  | Adsorbate-Limited Conductivity of Graphene. Physical Review Letters, 2008, 101, 196803.   | 7.8  | 201       |
| 3  | Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. Physical Review B, 2013, 88, .                           | 3.2  | 57        |
| 4  | Poor man's topological quantum gate based on the Su-Schrieffer-Heeger model. Physical Review B, 2019, 100, .  | 3.2  | 37        |
| 5  | Exfoliation of single layer BiTeI flakes. 2D Materials, 2018, 5, 031013.  | 4.4  | 34        |
| 6  | Topological and trivial magnetic oscillations in nodal loop semimetals. Physical Review B, 2018, 97, .  | 3.2  | 23        |
| 7  | Effect of the band structure topology on the minimal conductivity for bilayer graphene with symmetry breaking. Physical Review B, 2012, 85, .                     | 3.2  | 22        |
| 8  | Intraband electron focusing in bilayer graphene. New Journal of Physics, 2012, 14, 063028.  | 2.9  | 16        |
| 9  | Gap generation in topological insulator surface states by nonferromagnetic magnets. Physical Review B, 2012, 86, .  | 3.2  | 16        |
| 10 | Fast and slow edges in bilayer graphene nanoribbons: Tuning the transition from band to Mott insulator. Physical Review B, 2010, 81, .                            | 3.2  | 15        |
| 11 | Precursor configurations and post-rupture evolution of Ag-CO-Ag single-molecule junctions. Nanoscale, 2014, 6, 14784-14791.                                       | 5.6  | 13        |
| 12 | Uniaxial strain induced topological phase transition in bismuth-tellurohalide-graphene heterostructures. Nanoscale, 2019, 11, 12704-12711.                        | 5.6  | 10        |
| 13 | Exchange interactions from a nonorthogonal basis set: From bulk ferromagnets to the magnetism in low-dimensional graphene systems. Physical Review B, 2019, 99, . | 3.2  | 7         |
| 14 | Site-Resolved Contributions to the Magnetic-Anisotropy Energy and Complex Spin Structure of $\text{FeMgO}$ Sandwiches. Physical Review Applied, 2018, 9, .        | 3.8  | 6         |
| 15 | Carbon Nanotube Archimedes Screws. ACS Nano, 2010, 4, 7363-7366.  | 14.6 | 5         |
| 16 | Competition of topological and topologically trivial phases in patterned graphene based heterostructures. Physical Review B, 2020, 101, .                         | 3.2  | 5         |
| 17 | Topological Phase Diagram of BiTeI-Graphene Hybrid Structures. Applied Sciences (Switzerland), 2019, 9, 4330.   | 2.5  | 3         |
| 18 | Transport Properties of Graphene-BiTeI Hybrid Structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1700215.                      | 0.8  | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Finite-size effects on the minimal conductivity in graphene with Rashba spin-orbit coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 1-6.                  | 2.7 | 1         |
| 20 | A multiscale model of the effect of Ir thickness on the static and dynamic properties of Fe/Ir/Fe films. Scientific Reports, 2018, 8, 3879.   | 3.3 | 1         |
| 21 | Reprint of : Finite-size effects on the minimal conductivity in graphene with Rashba spin-orbit coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 216-221. | 2.7 | 0         |
| 22 | Time-dependent electric transport in nodal loop semimetals. Physical Review B, 2021, 104, .   | 3.2 | 0         |