

Luis E F Foa Torres

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,607
citations

28
h-index

51
g-index

82
ext. papers

3,218
ext. citations

3.6
avg, IF

5.87
L-index

#	Paper	IF	Citations
74	Copropagating Edge States Produced by the Interaction between Electrons and Chiral Phonons in Two-Dimensional Materials.. <i>Physical Review Letters</i> , 2022 , 128, 066801	7.4	0
73	Quantum Hall edge states under periodic driving: A Floquet induced chirality switch. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
72	Spin-Polarized Tunable Photocurrents. <i>Nano Letters</i> , 2021 , 21, 3177-3183	11.5	2
71	Quantum Transport beyond DC 2020 , 278-292		
70	Topological magnonics in the two-dimensional van der Waals magnet CrI ₃ . <i>Physical Review B</i> , 2020 , 102,	3.3	17
69	Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport 2020 ,		10
68	Electronic Structure Calculations: The Density Functional Theory (DFT) 2020 , 354-372		
67	Introduction to Carbon-Based Nanostructures 2020 , 1-10		
66	The New Family of Two-Dimensional Materials and van der Waals Heterostructures 2020 , 70-91		
65	Quantum Transport: General Concepts 2020 , 92-119		
64	Klein Tunneling and Ballistic Transport in Graphene and Related Materials 2020 , 120-144		
63	Quantum Transport in Disordered Graphene-Based Materials 2020 , 145-209		
62	Electronic Properties of Carbon-Based Nanostructures 2020 , 11-69		
61	Quantum Hall Effects in Graphene 2020 , 210-236		
60	Spin-Related Phenomena 2020 , 237-277		
59	Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials 2020 , 293-353		
58	Electronic Structure Calculations: The Many-Body Perturbation Theory (MBPT) 2020 , 373-378		

57	Green's Functions and Ab Initio Quantum Transport in the Landauer-Büttiker Formalism 2020 , 379-400		
56	Recursion Methods for Computing the Density of States (DOS) and Wavepacket Dynamics 2020 , 401-412		
55	Topological and flat-band states induced by hybridized linear interactions in one-dimensional photonic lattices. <i>Physical Review A</i> , 2020 , 102,	2.6	6
54	Perspective on topological states of non-Hermitian lattices. <i>JPhys Materials</i> , 2020 , 3, 014002	4.2	53
53	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020 , 3, 042006	4.2	48
52	Spatio-temporal dynamics of shift current quantum pumping by femtosecond light pulse. <i>JPhys Materials</i> , 2019 , 2, 025004	4.2	19
51	Topological signatures in quantum transport in anomalous Floquet-Anderson insulators. <i>Physical Review B</i> , 2019 , 100,	3.3	5
50	Non-Hermitian robust edge states in one dimension: Anomalous localization and eigenspace condensation at exceptional points. <i>Physical Review B</i> , 2018 , 97,	3.3	236
49	Multiterminal conductance at the surface of a Weyl semimetal. <i>Physical Review B</i> , 2018 , 97,	3.3	2
48	Robust edge states induced by electron-phonon interaction in graphene nanoribbons. <i>Physical Review B</i> , 2018 , 98,	3.3	6
47	Directional control of charge and valley currents in a graphene-based device. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28720-28725	3.6	17
46	Topological states of non-Hermitian systems. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 1295-1308	3.3	142
45	One-way transport in laser-illuminated bilayer graphene: A Floquet isolator. <i>Physical Review B</i> , 2017 , 96,	3.3	31
44	Photoelectric polarization-sensitive broadband photoresponse from interface junction states in graphene. <i>2D Materials</i> , 2017 , 4, 015002	5.9	3
43	Crafting zero-bias one-way transport of charge and spin. <i>Physical Review B</i> , 2016 , 93,	3.3	27
42	Floquet bound states around defects and adatoms in graphene. <i>Physical Review B</i> , 2016 , 93,	3.3	13
41	Valley filtering by a line-defect in graphene: quantum interference and inversion of the filter effect. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 485302	1.8	6
40	Floquet interface states in illuminated three-dimensional topological insulators. <i>Physical Review B</i> , 2015 , 91,	3.3	47

39	Floquet topological transitions in a driven one-dimensional topological insulator. <i>Physical Review A</i> , 2015 , 92,	2.6	81
38	Line defects and quantum Hall plateaus in graphene. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 145303	3.0	6
37	Hierarchy of Floquet gaps and edge states for driven honeycomb lattices. <i>Physical Review A</i> , 2015 , 91,	2.6	84
36	Irradiated graphene as a tunable Floquet topological insulator. <i>Physical Review B</i> , 2014 , 90,	3.3	213
35	Floquet chiral edge states in graphene. <i>Physical Review B</i> , 2014 , 89,	3.3	197
34	On the Nature of Defects in Liquid-Phase Exfoliated Graphene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15455-15459	3.8	114
33	Single-parameter spin-pumping in driven metallic rings with spin-orbit coupling. <i>Journal of Applied Physics</i> , 2014 , 115, 124507	2.5	2
32	Multiterminal conductance of a Floquet topological insulator. <i>Physical Review Letters</i> , 2014 , 113, 266801	3.4	147
31	Non-perturbative effects of laser illumination on the electrical properties of graphene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 144202	1.8	25
30	Quantum charge pumping in graphene-based devices: When lattice defects do help. <i>Applied Physics Letters</i> , 2013 , 103, 123508	3.4	30
29	Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport 2013 ,		86
28	Laser-induced effects on the electronic features of graphene nanoribbons. <i>Applied Physics Letters</i> , 2012 , 101, 253506	3.4	36
27	Radiation effects on the electronic properties of bilayer graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	94
26	Tuning laser-induced band gaps in graphene. <i>Applied Physics Letters</i> , 2011 , 98, 232103	3.4	174
25	Enhancing single-parameter quantum charge pumping in carbon-based devices. <i>Applied Physics Letters</i> , 2011 , 99, 092102	3.4	44
24	Transport response of carbon-based resonant cavities under time-dependent potential and magnetic fields. <i>Europhysics Letters</i> , 2011 , 94, 47002	1.6	4
23	ac transport in graphene-based Fabry-Pérot devices. <i>Physical Review B</i> , 2010 , 81,	3.3	54
22	Modeling graphene-based nanoelectromechanical devices. <i>Physical Review B</i> , 2010 , 81,	3.3	52

21	AC transport in carbon-based devices: challenges and perspectives. <i>Comptes Rendus Physique</i> , 2009 , 10, 297-304	1.4	6
20	Controlling the conductance and noise of driven carbon-based Fabry-Pérot devices. <i>Applied Physics Letters</i> , 2009 , 94, 222103	3.4	39
19	Nonequilibrium energy gaps in carbon nanotubes: Role of phonon symmetries. <i>Physical Review B</i> , 2008 , 78,	3.3	24
18	An application of carbon nanotubes for integrated circuit interconnects 2008 ,		3
17	Charge transport in carbon nanotubes: quantum effects of electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 183203	1.8	28
16	Electron-phonon induced conductance gaps in carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 86, 283-288	2.6	8
15	Diameter dependent phonon-induced backscattering in semiconducting carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	6
14	Towards a time reversal mirror for quantum systems. <i>Europhysics Letters</i> , 2007 , 77, 40001	1.6	11
13	Effects of electron-phonon interaction on transport through carbon nanotubes: lifting of degeneracies in Fock-space. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012057	0.3	
12	Conduction regime in innovative carbon nanotube via interconnect architectures. <i>Applied Physics Letters</i> , 2007 , 91, 252107	3.4	30
11	Antiresonances as precursors of decoherence. <i>Europhysics Letters</i> , 2006 , 73, 164-170	1.6	21
10	Inelastic quantum transport and peierls-like mechanism in carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 97, 076804	7.4	46
9	Mono-parametric quantum charge pumping: Interplay between spatial interference and photon-assisted tunneling. <i>Physical Review B</i> , 2005 , 72,	3.3	101
8	Conductance fluctuations in Coulomb-blockaded dots: from the sequential theory to a quantum coherent description. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 526-529	3	
7	Coherent versus sequential electron tunneling in quantum dots. <i>Physical Review Letters</i> , 2003 , 91, 116801	1.4	35
6	An ultrasound emitter based on assisted tunneling. <i>Solid State Communications</i> , 2002 , 124, 363-371	1.6	
5	Electron-phonon interaction and electronic decoherence in molecular conductors. <i>Chemical Physics</i> , 2002 , 281, 257-278	2.3	56
4	Tuning a resonance in Fock space: Optimization of phonon emission in a resonant-tunneling device. <i>Physical Review B</i> , 2001 , 64,	3.3	26

- 3 GaAs/AlxGa1-xAs double-barrier heterostructure phonon laser: A full quantum treatment. *Physical Review B*, **2001**, 64, 3-3 29
- 2 Resonances in Fock space: optimization of a SASER device. *Physica A: Statistical Mechanics and Its Applications*, **2000**, 283, 297-301 3-3 1
- 1 Quadrature protection of squeezed states in a one-dimensional photonic topological insulator. *Quantum - the Open Journal for Quantum Science*, **5**, 526 2