

Pablo Rodriguez-Lopez

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

738
citations

759055

12
h-index

552653

26
g-index

27
all docs

27
docs citations

27
times ranked

674
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials perspective on Casimir and van der Waals interactions. <i>Reviews of Modern Physics</i> , 2016, 88, .	16.4	276
2	Repulsive Casimir Effect with Chern Insulators. <i>Physical Review Letters</i> , 2014, 112, 056804.	2.9	69
3	Effect of finite temperature and uniaxial anisotropy on the Casimir effect with three-dimensional topological insulators. <i>Physical Review B</i> , 2011, 84, .	1.1	65
4	Casimir force phase transitions in the graphene family. <i>Nature Communications</i> , 2017, 8, 14699.	5.8	56
5	Relativistic quantum optics: The relativistic invariance of the light-matter interaction models. <i>Physical Review D</i> , 2018, 97, .	1.6	56
6	Casimir energy and entropy in the sphere-sphere geometry. <i>Physical Review B</i> , 2011, 84, .	1.1	27
7	Three-body Casimir effects and nonmonotonic forces. <i>Physical Review A</i> , 2009, 80, .	1.0	23
8	Dirac fermion time-Floquet crystal: Manipulating Dirac points. <i>Physical Review B</i> , 2014, 89, .	1.1	20
9	Nonlocal optical response in topological phase transitions in the graphene family. <i>Physical Review Materials</i> , 2018, 2, .	0.9	20
10	Radiative heat transfer in 2D Dirac materials. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 214019.	0.7	19
11	Signatures of complex optical response in Casimir interactions of type I and II Weyl semimetals. <i>Communications Materials</i> , 2020, 1, .	2.9	19
12	Casimir repulsion between topological insulators in the diluted regime. <i>Physical Review B</i> , 2011, 84, .	1.1	17
13	Dynamical approach to the Casimir effect. <i>Physical Review E</i> , 2011, 83, 031102.	0.8	12
14	Casimir interaction between inclined metallic cylinders. <i>Physical Review A</i> , 2012, 85, .	1.0	10
15	Thermally driven anomalous Hall effect transitions in FeRh. <i>Physical Review B</i> , 2018, 97, .	1.1	9
16	Composition and stacking dependent topology in bilayers from the graphene family. <i>Physical Review Materials</i> , 2019, 3, .	0.9	8
17	Pairwise summation approximation of Casimir energy from first principles. <i>Physical Review E</i> , 2009, 80, 061128.	0.8	6
18	CASIMIR ENERGY AND ENTROPY BETWEEN PERFECT METAL SPHERES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 14, 475-484.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Stochastic quantization and Casimir forces. Europhysics Letters, 2011, 96, 50008.	0.7	4
20	Casimir forces and quantum friction of finite-size atoms in relativistic trajectories. Physical Review A, 2018, 98, .	1.0	4
21	Nematic phase in a two-dimensional Hubbard model at weak coupling and finite temperature. Physical Review B, 2018, 98, .	1.1	3
22	STOCHASTIC QUANTIZATION AND CASIMIR FORCES: PISTONS OF ARBITRARY CROSS SECTION. International Journal of Modern Physics Conference Series, 2012, 14, 485-495.	0.7	2
23	Material dependence of the wire-particle Casimir interaction. Physical Review A, 2013, 87, .	1.0	2
24	Effect of curvature and confinement on the Casimir-Polder interaction. Physical Review A, 2015, 91, .	1.0	2
25	Theory of the strain-induced magnetoelectric effect in planar Dirac systems. Physical Review B, 2018, 97, .	1.1	2
26	Dispersive interactions between standard and Dirac materials and the role of dimensionality. JPhys Materials, 2022, 5, 034001.	1.8	2