

# Pablo Rodriguez-Lopez

## List of Publications by Year in descending order

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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	Dispersive interactions between standard and Dirac materials and the role of dimensionality. JPhys Materials, 2022, 5, 034001.	1.8	2
2	Signatures of complex optical response in Casimir interactions of type I and II Weyl semimetals. Communications Materials, 2020, 1, .	2.9	19
3	Composition and stacking dependent topology in bilayers from the graphene family. Physical Review Materials, 2019, 3, .	0.9	8
4	Thermally driven anomalous Hall effect transitions in FeRh. Physical Review B, 2018, 97, .	1.1	9
5	Casimir forces and quantum friction of finite-size atoms in relativistic trajectories. Physical Review A, 2018, 98, .	1.0	4
6	Nematic phase in a two-dimensional Hubbard model at weak coupling and finite temperature. Physical Review B, 2018, 98, .	1.1	3
7	Relativistic quantum optics: The relativistic invariance of the light-matter interaction models. Physical Review D, 2018, 97, .	1.6	56
8	Theory of the strain-induced magnetoelectric effect in planar Dirac systems. Physical Review B, 2018, 97, .	1.1	2
9	Nonlocal optical response in topological phase transitions in the graphene family. Physical Review Materials, 2018, 2, .	0.9	20
10	Casimir force phase transitions in the graphene family. Nature Communications, 2017, 8, 14699.	5.8	56
11	Materials perspective on Casimir and van der Waals interactions. Reviews of Modern Physics, 2016, 88, .	16.4	276
12	Effect of curvature and confinement on the Casimir-Polder interaction. Physical Review A, 2015, 91, .	1.0	2
13	Radiative heat transfer in 2D Dirac materials. Journal of Physics Condensed Matter, 2015, 27, 214019.	0.7	19
14	Repulsive Casimir Effect with Chern Insulators. Physical Review Letters, 2014, 112, 056804.	2.9	69
15	Dirac fermion time-Floquet crystal: Manipulating Dirac points. Physical Review B, 2014, 89, .	1.1	20
16	Material dependence of the wire-particle Casimir interaction. Physical Review A, 2013, 87, .	1.0	2
17	STOCHASTIC QUANTIZATION AND CASIMIR FORCES: PISTONS OF ARBITRARY CROSS SECTION. International Journal of Modern Physics Conference Series, 2012, 14, 485-495.	0.7	2
18	CASIMIR ENERGY AND ENTROPY BETWEEN PERFECT METAL SPHERES. International Journal of Modern Physics Conference Series, 2012, 14, 475-484.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Casimir interaction between inclined metallic cylinders. <i>Physical Review A</i> , 2012, 85, .	1.0	10
20	Stochastic quantization and Casimir forces. <i>Europhysics Letters</i> , 2011, 96, 50008.	0.7	4
21	Casimir repulsion between topological insulators in the diluted regime. <i>Physical Review B</i> , 2011, 84, .	1.1	17
22	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
23	Dynamical approach to the Casimir effect. <i>Physical Review E</i> , 2011, 83, 031102.	0.8	12
24	Casimir energy and entropy in the sphere-sphere geometry. <i>Physical Review B</i> , 2011, 84, .	1.1	27
25	Pairwise summation approximation of Casimir energy from first principles. <i>Physical Review E</i> , 2009, 80, 061128.	0.8	6
26	Three-body Casimir effects and nonmonotonic forces. <i>Physical Review A</i> , 2009, 80, .	1.0	23