

Ricardo Decca

List of Publications by Year in descending order

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46
papers

2,134
citations

331670

21
h-index

265206

42
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46
all docs

46
docs citations

46
times ranked

934
citing authors

#	ARTICLE	IF	CITATIONS
1	Tests of new physics from precise measurements of the Casimir pressure between two gold-coated plates. <i>Physical Review D</i> , 2007, 75, .	4.7	367
2	Measurement of the Casimir Force between Dissimilar Metals. <i>Physical Review Letters</i> , 2003, 91, 050402.	7.8	297
3	Improved tests of extra-dimensional physics and thermal quantum field theory from new Casimir force measurements. <i>Physical Review D</i> , 2003, 68, .	4.7	242
4	Constraining New Forces in the Casimir Regime Using the Isoelectronic Technique. <i>Physical Review Letters</i> , 2005, 94, .	7.8	205
5	Isoelectronic determination of the thermal Casimir force. <i>Physical Review B</i> , 2016, 93, .	3.2	113
6	Stronger Limits on Hypothetical Yukawa Interactions in the 30â€“8000Ånm Range. <i>Physical Review Letters</i> , 2016, 116, 221102.	7.8	103
7	Comment on “Anomalies in electrostatic calibrations for the measurement of the Casimir force in a sphere-plane geometry”. <i>Physical Review A</i> , 2009, 79, .	2.5	76
8	Anomalous Proximity Effect in Underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ Josephson Junctions. <i>Physical Review Letters</i> , 2000, 85, 3708-3711.	7.8	60
9	CASIMIR EFFECT AS A TEST FOR THERMAL CORRECTIONS AND HYPOTHETICAL LONG-RANGE INTERACTIONS. <i>International Journal of Modern Physics A</i> , 2005, 20, 2205-2221.	1.5	59
10	Stronger constraints on non-Newtonian gravity from the Casimir effect. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 164054.	2.1	46
11	MEASUREMENT OF THE CASIMIR FORCE USING A MICROMECHANICAL TORSIONAL OSCILLATOR: ELECTROSTATIC CALIBRATION. <i>International Journal of Modern Physics A</i> , 2009, 24, 1748-1756.	1.5	44
12	Indications of phase separation in polycrystalline $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ for $x \sim 0.5$. <i>Physical Review B</i> , 2000, 62, 9548-9554.	3.2	43
13	WHY SCREENING EFFECTS DO NOT INFLUENCE THE CASIMIR FORCE. <i>International Journal of Modern Physics A</i> , 2009, 24, 1721-1742.	1.5	42
14	Precise Determination of the Casimir Force and First Realization of a “Casimir Less” Experiment. <i>Journal of Low Temperature Physics</i> , 2004, 135, 63-74.	1.4	41
15	Kelvin probe force microscopy of metallic surfaces used in Casimir force measurements. <i>Physical Review A</i> , 2014, 90, .	2.5	41
16	Measurement of the Casimir Force between 0.2 and 8 $\frac{1}{4}$ µm: Experimental Procedures and Comparison with Theory. <i>Universe</i> , 2021, 7, 93.	2.5	39
17	Capacitive sensor for micropositioning in two dimensions. <i>Review of Scientific Instruments</i> , 1998, 69, 310-312.	1.3	35
18	Investigation of the electric-field distribution at the subwavelength aperture of a near-field scanning optical microscope. <i>Applied Physics Letters</i> , 1997, 70, 1932-1934.	3.3	28

#	ARTICLE	IF	CITATIONS
19	Towards detecting traces of non-contact quantum friction in the corrections of the accumulated geometric phase. Npj Quantum Information, 2020, 6, .	6.7	25
20	Classical symmetron force in Casimir experiments. Physical Review D, 2020, 101, .	4.7	24
21	MEMS-based force sensor: Design and applications. Bell Labs Technical Journal, 2005, 10, 61-80.	0.7	23
22	Quasianalytical modal approach for computing Casimir interactions in periodic nanostructures. Physical Review A, 2012, 86, .	2.5	19
23	The effects of spherical aberration on multiphoton fluorescence excitation microscopy. Journal of Microscopy, 2011, 242, 157-165.	1.8	17
24	Possibility of measuring the thermal Casimir interaction between a plate and a cylinder attached to a micromachined oscillator. Physical Review A, 2010, 82, .	2.5	16
25	Mechanical oscillator tip-to-sample separation control for near-field optical microscopy. Review of Scientific Instruments, 1997, 68, 1291-1295.	1.3	14
26	NEW RESULTS FOR THE CASIMIR INTERACTION: SAMPLE CHARACTERIZATION AND LOW TEMPERATURE MEASUREMENTS. International Journal of Modern Physics A, 2010, 25, 2223-2230.	1.5	14
27	Casimir force between a microfabricated elliptic cylinder and a plate. Physical Review A, 2011, 84, .	2.5	11
28	Photoinduced superconducting nanowires in GdBa ₂ Cu ₃ O _{6.5} films. Applied Physics Letters, 1998, 73, 120-122.	3.3	10
29	Differential Casimir measurements on an engineered sample: Some experimental details. International Journal of Modern Physics A, 2016, 31, 1641024.	1.5	10
30	Single molecule tracking scheme using a near-field scanning optical microscope. Review of Scientific Instruments, 2002, 73, 2675-2679.	1.3	9
31	Detectable Signature of Quantum Friction on a Sliding Particle in Vacuum. Advanced Quantum Technologies, 2021, 4, 2000155.	3.9	9
32	Probing the screening of the Casimir interaction with optical tweezers. Physical Review Research, 2021, 3, .	3.6	9
33	Testing Newtonian gravity at the nanometer distance scale using the iso-electronic effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 165-171.	2.1	8
34	CAPACITANCE MEASUREMENTS AND ELECTROSTATIC CALIBRATIONS IN EXPERIMENTS MEASURING THE CASIMIR FORCE. International Journal of Modern Physics A, 2011, 26, 3930-3943.	1.5	7
35	Double-layer force suppression between charged microspheres. Physical Review E, 2018, 97, 022611.	2.1	7
36	MEMS Technology for the Advancement of Science. Journal of Low Temperature Physics, 2004, 135, 51-62.	1.4	6

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37	YUKAWA CORRECTIONS TO THE NEWTONIAN GRAVITATIONAL POTENTIAL: FINITE SIZE EFFECTS IN A RECENT EXPERIMENT. <i>International Journal of Modern Physics A</i> , 2011, 26, 3742-3751.	1.5	4
38	Scanning eddy current dynamometer with 100 $\hat{1}$ / ₄ m resolution. <i>Review of Scientific Instruments</i> , 2000, 71, 3168-3172.	1.3	3
39	Inducing superconductivity at a nanoscale: photodoping with a near-field scanning optical microscope. <i>Journal of Microscopy</i> , 1999, 194, 407.	1.8	2
40	YUKAWA CORRECTIONS TO THE NEWTONIAN GRAVITATIONAL POTENTIAL: FINITE SIZE EFFECTS IN A RECENT EXPERIMENT. <i>International Journal of Modern Physics Conference Series</i> , 2011, 03, 48-57.	0.7	2
41	Toward a better system for short range precision force measurements. <i>Modern Physics Letters A</i> , 2020, 35, 2040002.	1.2	2
42	MEASUREMENT OF THE CASIMIR INTERACTION BETWEEN A $\langle \text{font} \rangle \text{Au} \langle / \text{font} \rangle$ SPHERE AND $\langle \text{font} \rangle \text{Au} \langle / \text{font} \rangle$ GRATINGS. <i>International Journal of Modern Physics Conference Series</i> , 2011, 03, 507-514.	0.7	1
43	NEW RESULTS FOR THE CASIMIR INTERACTION: SAMPLE CHARACTERIZATION AND LOW TEMPERATURE MEASUREMENTS. , 2010, , .		1
44	STATEMENT OF RETRACTION: "MEASUREMENT OF THE CASIMIR INTERACTION BETWEEN A Au SPHERE AND Au GRATINGS". <i>International Journal of Modern Physics A</i> , 2012, 27, 1293001.	1.5	0
45	Fourier reconstruction of the force signal using a microelectromechanical oscillator in the Casimir regime. , 2017, , .		0
46	Near-field studies of anisotropic variations and temperature-induced structural changes in a supported single lipid bilayer. <i>Physical Review E</i> , 2020, 101, 032416.	2.1	0