

# Ricardo Decca

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,134  
citations

331670

21  
h-index

265206

42  
g-index

46  
all docs

46  
docs citations

46  
times ranked

934  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Detectable Signature of Quantum Friction on a Sliding Particle in Vacuum. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000155.   | 3.9 | 9         |
| 2  | Measurement of the Casimir Force between 0.2 and 8 $\mu\text{m}$ : Experimental Procedures and Comparison with Theory. <i>Universe</i> , 2021, 7, 93.  | 2.5 | 39        |
| 3  | Probing the screening of the Casimir interaction with optical tweezers. <i>Physical Review Research</i> , 2021, 3, .   | 3.6 | 9         |
| 4  | Classical symmetron force in Casimir experiments. <i>Physical Review D</i> , 2020, 101, .  | 4.7 | 24        |
| 5  | 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         |
| 6  | Towards detecting traces of non-contact quantum friction in the corrections of the accumulated geometric phase. <i>Npj Quantum Information</i> , 2020, 6, .                                  | 6.7 | 25        |
| 7  | Toward a better system for short range precision force measurements. <i>Modern Physics Letters A</i> , 2020, 35, 2040002.  | 1.2 | 2         |
| 8  | Double-layer force suppression between charged microspheres. <i>Physical Review E</i> , 2018, 97, 022611.  | 2.1 | 7         |
| 9  | Fourier reconstruction of the force signal using a microelectromechanical oscillator in the Casimir regime. , 2017, , .  |     | 0         |
| 10 | Isoelectronic determination of the thermal Casimir force. <i>Physical Review B</i> , 2016, 93, .   | 3.2 | 113       |
| 11 | Stronger Limits on Hypothetical Yukawa Interactions in the 30 $\mu\text{m}$ –8000 $\text{\AA}$ Range. <i>Physical Review Letters</i> , 2016, 116, 221102.                                    | 7.8 | 103       |
| 12 | Differential Casimir measurements on an engineered sample: Some experimental details. <i>International Journal of Modern Physics A</i> , 2016, 31, 1641024.                                  | 1.5 | 10        |
| 13 | Kelvin probe force microscopy of metallic surfaces used in Casimir force measurements. <i>Physical Review A</i> , 2014, 90, .  | 2.5 | 41        |
| 14 | 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         |
| 15 | Quasianalytical modal approach for computing Casimir interactions in periodic nanostructures. <i>Physical Review A</i> , 2012, 86, .   | 2.5 | 19        |
| 16 | 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         |
| 17 | MEASUREMENT OF THE CASIMIR INTERACTION BETWEEN A $\text{Au}$ SPHERE AND $\text{Au}$ GRATINGS. <i>International Journal of Modern Physics Conference Series</i> , 2011, 03, 507-514.          | 0.7 | 1         |
| 18 | The effects of spherical aberration on multiphoton fluorescence excitation microscopy. <i>Journal of Microscopy</i> , 2011, 242, 157-165.  | 1.8 | 17        |

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|----|---|-----|-----------|
| 19 | Casimir force between a microfabricated elliptic cylinder and a plate. <i>Physical Review A</i> , 2011, 84, .   | 2.5 | 11        |
| 20 | 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         |
| 21 | CAPACITANCE MEASUREMENTS AND ELECTROSTATIC CALIBRATIONS IN EXPERIMENTS MEASURING THE CASIMIR FORCE. <i>International Journal of Modern Physics A</i> , 2011, 26, 3930-3943.                 | 1.5 | 7         |
| 22 | Possibility of measuring the thermal Casimir interaction between a plate and a cylinder attached to a micromachined oscillator. <i>Physical Review A</i> , 2010, 82, .                      | 2.5 | 16        |
| 23 | NEW RESULTS FOR THE CASIMIR INTERACTION: SAMPLE CHARACTERIZATION AND LOW TEMPERATURE MEASUREMENTS. <i>International Journal of Modern Physics A</i> , 2010, 25, 2223-2230.                  | 1.5 | 14        |
| 24 | NEW RESULTS FOR THE CASIMIR INTERACTION: SAMPLE CHARACTERIZATION AND LOW TEMPERATURE MEASUREMENTS. , 2010, , .  |     | 1         |
| 25 | 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        |
| 26 | WHY SCREENING EFFECTS DO NOT INFLUENCE THE CASIMIR FORCE. <i>International Journal of Modern Physics A</i> , 2009, 24, 1721-1742.   | 1.5 | 42        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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       |
| 30 | MEMS-based force sensor: Design and applications. <i>Bell Labs Technical Journal</i> , 2005, 10, 61-80.   | 0.7 | 23        |
| 31 | 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        |
| 32 | Constraining New Forces in the Casimir Regime Using the Isoelectronic Technique. <i>Physical Review Letters</i> , 2005, 94, .   | 7.8 | 205       |
| 33 | 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        |
| 34 | MEMS Technology for the Advancement of Science. <i>Journal of Low Temperature Physics</i> , 2004, 135, 51-62.   | 1.4 | 6         |
| 35 | Testing Newtonian gravity at the nanometer distance scale using the iso-electronic effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 318, 165-171. | 2.1 | 8         |
| 36 | Measurement of the Casimir Force between Dissimilar Metals. <i>Physical Review Letters</i> , 2003, 91, 050402.  | 7.8 | 297       |

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|----|---|-----|-----------|
| 37 | 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       |
| 38 | Single molecule tracking scheme using a near-field scanning optical microscope. <i>Review of Scientific Instruments</i> , 2002, 73, 2675-2679.                                    | 1.3 | 9         |
| 39 | Scanning eddy current dynamometer with 100 $\hat{1}$ / <sub>4</sub> m resolution. <i>Review of Scientific Instruments</i> , 2000, 71, 3168-3172.                                  | 1.3 | 3         |
| 40 | 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        |
| 41 | Indications of phase separation in polycrystalline $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ for $x \approx 0.5$ . <i>Physical Review B</i> , 2000, 62, 9548-9554.                 | 3.2 | 43        |
| 42 | Inducing superconductivity at a nanoscale: photodoping with a near-field scanning optical microscope. <i>Journal of Microscopy</i> , 1999, 194, 407.                              | 1.8 | 2         |
| 43 | Photoinduced superconducting nanowires in $\text{GdBa}_2\text{Cu}_3\text{O}_{6.5}$ films. <i>Applied Physics Letters</i> , 1998, 73, 120-122.                                     | 3.3 | 10        |
| 44 | Capacitive sensor for micropositioning in two dimensions. <i>Review of Scientific Instruments</i> , 1998, 69, 310-312.  | 1.3 | 35        |
| 45 | 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        |
| 46 | Mechanical oscillator tip-to-sample separation control for near-field optical microscopy. <i>Review of Scientific Instruments</i> , 1997, 68, 1291-1295.                          | 1.3 | 14        |