Galina Klimchitskaya

List of Publications by Year
in descending order

253	11,323	19657 61	37204 96
papers	citations	h-index	g-index

258	258	258	1564
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theory-experiment comparison for the Casimir force between metallic test bodies: A spatially nonlocal dielectric response. Physical Review A, 2022, 105, .	2.5	13
2	Editorial to the Special Issue â€œAdvances in the Physics of Starsâ€"In Memory of Prof. Yuri N. Gnedinâ€. Universe, 2022, 8, 239.	2.5	0
3	Casimir-Polder attraction and repulsion between nanoparticles and graphene in out-of-thermal-equilibrium conditions. Physical Review B, 2022, 105, .	3.2	6
4	Casimir-Polder Interaction of an Atom with a Cavity Wall Made of Phase-Change Material out of Thermal Equilibrium. Atoms, 2021, 9, 4.	1.6	7
5	Constraints on Theoretical Predictions beyond the Standard Model from the Casimir Effect and Some Other Tabletop Physics. Universe, 2021, 7, 47.	2.5	9
6	Measurement of the Casimir Force between 0.2 and 8 Î¼m: Experimental Procedures and Comparison with Theory. Universe, 2021, 7, 93.	2.5	39
7	Casimir entropy and nonlocal response functions to the off-shell quantum fluctuations. Physical Review D, 2021, 103, .	4.7	12
8	Demonstration of an Unusual Thermal Effect in the Casimir Force from Graphene. Physical Review Letters, 2021, 126, 206802.	7.8	25
9	Casimir pressure in peptide films on metallic substrates: Change of sign via graphene coating. Physical Review B, 2021, 103, .	3.2	4
10	Editorial to the Special Issue â€œThe Casimir Effect: From a Laboratory Table to the Universeâ€. Universe, 2021, 7, 266.	2.5	0
11	Experimental and theoretical investigation of the thermal effect in the Casimir interaction from graphene. Physical Review B, 2021, 104, .	3.2	24
12	Dark Matter Axions, Non-Newtonian Gravity and Constraints on Them from Recent Measurements of the Casimir Force in the Micrometer Separation Range. Universe, 2021, 7, 343.	2.5	9
13	Casimir effect for magnetic media: Spatially nonlocal response to the off-shell quantum fluctuations. Physical Review D, 2021, 104, .	4.7	12
14	Casimir and Casimir-Polder Forces in Graphene Systems: Quantum Field Theoretical Description and Thermodynamics. Universe, 2020, 6, 150.	2.5	21
15	The State of the Art in Constraining Axion-to-Nucleon Coupling and Non-Newtonian Gravity from Laboratory Experiments. Universe, 2020, 6, 147.	2.5	14
16	Effect of increased stability of peptide-based coatings in the Casimir regime via nanoparticle doping. Physical Review B, 2020, 102, .	3.2	7
17	An alternative response to the off-shell quantum fluctuations: a step forward in resolution of the Casimir puzzle. European Physical Journal C, 2020, 80, 1.	3.9	23
18	Quantum field theoretical description of the Casimir effect between two real graphene sheets and thermodynamics. Physical Review D, 2020, 102, .	4.7	15

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19	Nonequilibrium effects in the Casimir force between two similar metallic plates kept at different temperatures. Physical Review A, 2020, 101, .	2.5	8
20	Casimir effect in optoelectronic devices using ferrofluids. Journal of Electronic Science and Technology, 2020, 18, 100024.	3.6	7
21	The Casimir-Polder interaction of an atom and real graphene sheet: Verification of the Nernst heat theorem. Modern Physics Letters A, 2020, 35, 2040004.	1.2	6
22	Nernst heat theorem for an atom interacting with graphene: Dirac model with nonzero energy gap and chemical potential. Physical Review D, 2020, 101, .	4.7	15
23	Constraints on non-Newtonian gravity and axionlike particles from measuring the Casimir force in nanometer separation range. Physical Review D, 2020, 101, .	4.7	16
24	Casimir force, causality, and the Gurzhi model. Physical Review B, 2020, 101, .	3.2	3
25	Recent measurements of the Casimir force: Comparison between experiment and theory. Modern Physics Letters A, 2020, 35, 2040007.	1.2	13
26	Casimir repulsion though a water-based ferrofluid. Modern Physics Letters A, 2020, 35, 2040016.	1.2	6
27	Effect of agglomeration of magnetic nanoparticles on the Casimir pressure through a ferrofluid. Physical Review B, 2019, 100, .	3.2	8
28	Examining the Casimir puzzle with an upgraded AFM-based technique and advanced surface cleaning. Physical Review B, 2019, 100, .	3.2	36
29	Casimir pressure between metallic plates out of thermal equilibrium: Proposed test for the relaxation properties of free electrons. Physical Review A, 2019, 100, .	2.5	19
30	Dispersion Forces between Metal and Dielectric Plates Separated by a Magnetic Fluid. Technical Physics, 2019, 64, 1260-1266.	0.7	5
31	Impact of magnetic nanoparticles on the Casimir pressure in three-layer systems. Physical Review B, 2019, 99, .	3.2	20
32	Whether an Enormously Large Energy Density of the Quantum Vacuum Is Catastrophic. Symmetry, 2019, 11, 314.	2.2	9
33	Prospects for Searching Thermal Effects, Non-Newtonian Gravity and Axion-Like Particles: Cannex Test of the Quantum Vacuum. Symmetry, 2019, 11, 407.	2.2	24
34	Fluctuation-induced free energy of thin peptide films. Physical Review E, 2019, 99, 022410.	2.1	19
35	Reflectance of graphene-coated dielectric plates in the framework of Dirac model: joint action of energy gap and chemical potential. Journal of Physics Condensed Matter, 2019, 31, 505003.	1.8	2
36	Precision measurements of the gradient of the Casimir force between ultraclean metallic surfaces at larger separations. Physical Review A, 2019, 100, .	2.5	35

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37	Reducing detrimental electrostatic effects in Casimir-force measurements and Casimir-force-based microdevices. Physical Review A, 2018, 97, .	2.5	36
38	Kramers-Kronig relations and causality conditions for graphene in the framework of the Dirac model. Physical Review D, 2018, 97, .	4.7	14
39	Nonperturbative theory of atom-surface interaction: corrections at short separations. Journal of Physics Condensed Matter, 2018, 30, 055003.	1.8	7
40	Influence of the chemical potential on the Casimir-Polder interaction between an atom and gapped graphene or a graphene-coated substrate. Physical Review A, 2018, 97, .	2.5	32
41	Impact of Magnetic Particles on Dispersion Forces in Ferrofluid-Based Microdevices. , 2018, , .		7
42	Contribution of Electromagnetic Fluctuations to the Free Energy of Protein Films. , 2018, , .		4
43	Low-temperature behavior of the Casimir-Polder free energy and entropy for an atom interacting with graphene. Physical Review A, 2018, 98, .	2.5	13
44	Graphene may help to solve the Casimir conundrum in indium tin oxide systems. Physical Review B, 2018, 98, .	3.2	8
45	Impact of chemical potential on the reflectance of graphene in the infrared and microwave domains. Physical Review A, 2018, 98, .	2.5	15
46	Optical Chopper Driven by the Casimir Force. Physical Review Applied, 2018, 10, .	3.8	16
47	Reflective properties of graphene for optical and near-infrared wavelength range. , 2018, , .		0
48	Maximum reflectance and transmittance of films coated with gapped graphene in the context of the Dirac model. Physical Review A, 2018, 97, .	2.5	4
49	The Casimir-Operated Microdevice for Application in Optical Networks. Lecture Notes in Computer Science, 2018, , 613-623.	1.3	0
50	Optical properties of dielectric plates coated with gapped graphene. Physical Review B, 2017, 95, .	3.2	13
51	Casimir free energy of dielectric films: classical limit, low-temperature behavior and control. Journal of Physics Condensed Matter, 2017, 29, 275701.	1.8	22
52	Low-temperature behavior of the Casimir free energy and entropy of metallic films. Physical Review A, 2017, 95, .	2.5	33
53	Thermal effect in the Casimir force for graphene and graphene-coated substrates: Impact of nonzero mass gap and chemical potential. Physical Review B, 2017, 96, .	3.2	20
54	Universal experimental test for the role of free charge carriers in the thermal Casimir effect within a micrometer separation range. Physical Review A, 2017, 95, .	2.5	9

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55	How to observe the giant thermal effect in the Casimir force for graphene systems. Physical Review A, 2017, 96, .	2.5	22
56	Constraints on axionlike particles and non-Newtonian gravity from measuring the difference of Casimir forces. Physical Review D, 2017, 95, .	4.7	23
57	Recent breakthrough and outlook in constraining the non-Newtonian gravity and axion-like particles from Casimir physics. European Physical Journal C, 2017, 77, 1.	3.9	17
58	Conductivity of graphene in the framework of Dirac model: Interplay between nonzero mass gap and chemical potential. Physical Review B, 2017, 96, .	3.2	21
59	Comment on â€œLifshitz-Matsubara sum formula for the Casimir pressure between magnetic metallic mirrorsâ€• Physical Review E, 2016, 94, 026101.	2.1	6
60	Nernst heat theorem for the thermal Casimir interaction between two graphene sheets. Physical Review A, 2016, 94, .	2.5	19
61	Constraining axion coupling constants from measuring the Casimir interaction between polarized test bodies. Physical Review D, 2016, 94, .	4.7	12
62	Casimir free energy and pressure for magnetic metal films. Physical Review B, 2016, 94, .	3.2	16
63	Reflectivity properties of graphene with a nonzero mass-gap parameter. Physical Review A, 2016, 93, .	2.5	21
64	Conductivity of pure graphene: Theoretical approach using the polarization tensor. Physical Review B, 2016, 93, .	3.2	28
65	Characteristic properties of the Casimir free energy for metal films deposited on metallic plates. Physical Review A, 2016, 93, .	2.5	12
66	Quantum electrodynamic approach to the conductivity of gapped graphene. Physical Review B, 2016, 94, .	3.2	20
67	Quantum field theory of the Casimir force for graphene. International Journal of Modern Physics A, 2016, 31, 1641026.	1.5	13
68	Quantum Field Theoretical Approach to the Electrical Conductivity of Graphene. Lecture Notes in Computer Science, 2016, , 699-707.	1.3	0
69	Casimir free energy of metallic films: Discriminating between Drude and plasma model approaches. Physical Review A, 2015, 92, .	2.5	22
70	Origin of large thermal effect in the Casimir interaction between two graphene sheets. Physical Review B, 2015, 91, .	3.2	41
71	Casimir and van der Waals energy of anisotropic atomically thin metallic films. Physical Review B, 2015, 92, .	3.2	13
72	Theory of reflectivity properties of graphene-coated material plates. Physical Review B, 2015, 92, .	3.2	27

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73	Improved constraints on the coupling constants of axion-like particles to nucleons from recent Casimir-less experiment. European Physical Journal C, 2015, 75, 1.	3.9	25
74	Comparison of hydrodynamic model of graphene with recent experiment on measuring the Casimir interaction. Physical Review B, 2015, 91, .	3.2	24
75	Analytic results for the Casimir free energy between ferromagnetic metals. Physical Review A, 2015, 91, .	2.5	28
76	Quantum field theoretical description for the reflectivity of graphene. Physical Review D, 2015, 91, .	4.7	79
77	Constraints on the axion and corrections to newtonian gravity from the Casimir effect. Gravitation and Cosmology, 2015, 21, 1-12.	1.1	10
78	Casimir entropy for magnetodielectrics. Journal of Physics Condensed Matter, 2015, 27, 214007.	1.8	23
79	Classical Casimir-Polder force between polarizable microparticles and thin films including graphene. Physical Review A, 2014, 89, .	2.5	24
80	Two approaches for describing the Casimir interaction in graphene: Density-density correlation function versus polarization tensor. Physical Review B, 2014, 89, .	3.2	64
81	Classical limit of the Casimir interaction for thin films with applications to graphene. Physical Review B, 2014, 89, .	3.2	23
82	Constraints on axion-nucleon coupling constants from measuring the Casimir force between corrugated surfaces. Physical Review D, 2014, 90, .	4.7	22
83	Stronger constraints on an axion from measuring the Casimir interaction by means of a dynamic atomic force microscope. Physical Review D, 2014, 89, .	4.7	19
84	Theory of the Casimir interaction from graphene-coated substrates using the polarization tensor and comparison with experiment. Physical Review B, 2014, 89, .	3.2	74
85	Impact of graphene coating on the atom-plate interaction. Physical Review A, 2014, 89, .	2.5	29
86	Constraints on the parameters of an axion from measurements of the thermal Casimir-Polder force. Physical Review D, 2014, 89, .	4.7	25
87	Reflectivity Properties of Graphene and Graphene-Coated Substrates. Lecture Notes in Computer Science, 2014, , 451-458.	1.3	5
88	Observability of thermal effects in the Casimir interaction from graphene-coated substrates. Physical Review A, 2014, 89, .	2.5	47
89	New constraints on Yukawa-type corrections to Newtonian gravity at short separations. Gravitation and Cosmology, 2014, 20, 3-9.	1.1	15
90	Constraining axionâ€“nucleon coupling constants from measurements of effective Casimir pressure by means of micromachined oscillator. European Physical Journal C, 2014, 74, 1.	3.9	25

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91	Measuring the Casimir force gradient from graphene on a SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>substrate. Physical Review B, 2013, 87, .	3.2	97
92	Casimir interaction between two magnetic metals in comparison with nonmagnetic test bodies. Physical Review B, 2013, 88, .	3.2	102
93	Demonstration of the Casimir Force between Ferromagnetic Surfaces of a Ni-Coated Sphere and a Ni-Coated Plate. Physical Review Letters, 2013, 110, 137401.	7.8	121
94	Constraints on corrections to Newtonian gravity from two recent measurements of the Casimir interaction between metallic surfaces. Physical Review D, 2013, 87, .	4.7	48
95	Casimir interaction at liquid nitrogen temperature: Comparison between experiment and theory. Physical Review B, 2013, 88, .	3.2	19
96	van der Waals and Casimir interactions between two graphene sheets. Physical Review B, 2013, 87, .	3.2	72
97	Creation of quasiparticles in graphene by a time-dependent electric field. Physical Review D, 2013, 87, .	4.7	39
98	Constraints on non-Newtonian gravity and light elementary particles from measurements of the Casimir force by means of a dynamic atomic force microscope. Physical Review D, 2012, 86, .	4.7	14
99	Gradient of the Casimir force between Au surfaces of a sphere and a plate measured using an atomic force microscope in a frequency-shift technique. Physical Review B, 2012, 85, .	3.2	144
100	Modifying the Casimir force between indium tin oxide film and Au sphere. Physical Review B, 2012, 85, .	3.2	62
101	COMPARISON BETWEEN EXPERIMENT AND THEORY FOR THE THERMAL CASIMIR FORCE. International Journal of Modern Physics A, 2012, 27, 1260012.	1.5	24
102	OBSERVATION OF REDUCTION IN CASIMIR FORCE WITHOUT CHANGE OF DIELECTRIC PERMITTIVITY. International Journal of Modern Physics A, 2012, 27, 1260001.	1.5	12
103	NEW CONSTRAINTS ON YUKAWA-TYPE INTERACTIONS FROM THE CASIMIR EFFECT. International Journal of Modern Physics A, 2012, 27, 1260015.	1.5	10
104	OBSERVATION OF REDUCTION IN CASIMIR FORCE WITHOUT CHANGE OF DIELECTRIC PERMITTIVITY. International Journal of Modern Physics Conference Series, 2012, 14, 1-15.	0.7	1
105	PRECISION MEASUREMENT OF THE CASIMIR FORCE FOR Au USING A DYNAMIC AFM. International Journal of Modern Physics Conference Series, 2012, 14, 270-280.	0.7	3
106	CASIMIR PRESSURE IN MDS-STRUCTURES. International Journal of Modern Physics Conference Series, 2012, 14, 566-575.	0.7	1
107	COMPARISON BETWEEN EXPERIMENT AND THEORY FOR THE THERMAL CASIMIR FORCE. International Journal of Modern Physics Conference Series, 2012, 14, 155-170.	0.7	2
108	NEW CONSTRAINTS ON YUKAWA-TYPE INTERACTIONS FROM THE CASIMIR EFFECT. International Journal of Modern Physics Conference Series, 2012, 14, 200-214.	0.7	1

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109	Comment on â€œCasimir Force andInÂSituSurface Potential Measurements on Nanomembranesâ€. Physical Review Letters, 2012, 109, 199701.	7.8	16
110	How to modify the van der Waals and Casimir forces without change of the dielectric permittivity. Journal of Physics Condensed Matter, 2012, 24, 424202.	1.8	9
111	Thermal Casimir effect in the interaction of graphene with dielectrics and metals. Physical Review B, 2012, 86, .	3.2	74
112	Thermal Casimir-Polder interaction of different atoms with graphene. Physical Review A, 2012, 86, .	2.5	86
113	Measurement of the gradient of the Casimir force between a nonmagnetic gold sphere and a magnetic nickel plate. Physical Review B, 2012, 85, .	3.2	86
114	Constraints on non-Newtonian gravity from measuring the Casimir force in a configuration with nanoscale rectangular corrugations. Physical Review D, 2011, 83, .	4.7	36
115	Thermal Casimir effect in closed Friedmann universe revisited. Physical Review D, 2011, 83, .	4.7	30
116	DISPERSION INTERACTION OF ATOMS WITH SINGLE-WALLED CARBON NANOTUBES DESCRIBED BY THE DIRAC MODEL. International Journal of Modern Physics Conference Series, 2011, 03, 555-563.	0.7	2
117	CAPACITANCE MEASUREMENTS AND ELECTROSTATIC CALIBRATIONS IN EXPERIMENTS MEASURING THE CASIMIR FORCE. International Journal of Modern Physics Conference Series, 2011, 03, 527-540.	0.7	1
118	WHAT IS CREDIBLE AND WHAT IS INCREDIBLE IN THE MEASUREMENTS OF THE CASIMIR FORCE. International Journal of Modern Physics Conference Series, 2011, 03, 541-554.	0.7	2
119	OBSERVATION OF THE THERMAL CASIMIR FORCE IS OPEN TO QUESTION. International Journal of Modern Physics Conference Series, 2011, 03, 515-526.	0.7	4
120	Casimir force pressure on the insulating layer in metal-insulator-semiconductor structures. Physics of the Solid State, 2011, 53, 1921-1926.	0.6	1
121	Exact Casimirâ€"Polder potential between a particle and an ideal metal cylindrical shell and the proximity force approximation. European Physical Journal C, 2011, 71, 1.	3.9	22
122	Casimir force between a microfabricated elliptic cylinder and a plate. Physical Review A, 2011, 84, .	2.5	11
123	Comment on â€œTemperature dependence of the Casimir force for lossy bulk mediaâ€. Physical Review A, 2011, 84, .	2.5	2
124	Impact of surface imperfections on the Casimir force for lenses of centimeter-size curvature radii. Physical Review B, 2011, 83, .	3.2	51
125	Reduction of the Casimir Force from Indium Tin Oxide Film by UV Treatment. Physical Review Letters, 2011, 107, 090403.	7.8	84
126	OBSERVATION OF THE THERMAL CASIMIR FORCE IS OPEN TO QUESTION. International Journal of Modern Physics A, 2011, 26, 3918-3929.	1.5	32

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127	CONTROL OF THE CASIMIR FORCE USING SEMICONDUCTOR TEST BODIES. International Journal of Modern Physics B, 2011, 25, 171-230.	2.0	47
128	DISPERSION INTERACTION OF ATOMS WITH SINGLE-WALLED CARBON NANOTUBES DESCRIBED BY THE DIRAC MODEL. International Journal of Modern Physics A, 2011, 26, 3958-3966.	1.5	3
129	WHAT IS CREDIBLE AND WHAT IS INCREDIBLE IN THE MEASUREMENTS OF THE CASIMIR FORCE. International Journal of Modern Physics A, 2011, 26, 3944-3957.	1.5	6
130	CAPACITANCE MEASUREMENTS AND ELECTROSTATIC CALIBRATIONS IN EXPERIMENTS MEASURING THE CASIMIR FORCE. International Journal of Modern Physics A, 2011, 26, 3930-3943.	1.5	7
131	Normal and lateral Casimir force: Advances and prospects. Journal of Physics: Conference Series, 2010, 258, 012001.	0.4	2
132	Authors question book reviewerâ€™s fairness. Physics Today, 2010, 63, 12-13.	0.3	0
133	Modulation of the Casimir force by laser pulses: Influence of oxide films on the silicon surface. Physics of the Solid State, 2010, 52, 2033-2038.	0.6	1
134	On the validity of constraints on light elementary particles andÂextra-dimensional physics from the Casimir effect. European Physical Journal C, 2010, 68, 223-226.	3.9	22
135	Comparison of the experimental data for the Casimir pressure with the Lifshitz theory at zero temperature. Physical Review B, 2010, 81, .	3.2	7
136	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
137	Possibility of measuring thermal effects in the Casimir force. Physical Review A, 2010, 82, .	2.5	19
138	Thermal Casimir interaction between two magnetodielectric plates. Physical Review B, 2010, 81, .	3.2	39
139	THERMAL CASIMIR FORCE BETWEEN MAGNETIC MATERIALS. International Journal of Modern Physics A, 2010, 25, 2293-2301.	1.5	12
140	On the definition of dielectric permittivity for media with temporal dispersion in the presence of free charge carriers. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 015402.	2.1	0
141	Strengthening constraints on Yukawa-type corrections to Newtonian gravity from measuring the Casimir force between a cylinder and a plate. Physical Review D, 2010, 82, .	4.7	11
142	THE CASIMIR EFFECT AND THE FOUNDATIONS OF STATISTICAL PHYSICS. International Journal of Modern Physics A, 2010, 25, 2302-2312.	1.5	25
143	Advance and prospects in constraining the Yukawa-type corrections to Newtonian gravity from the Casimir effect. Physical Review D, 2010, 81, .	4.7	64
144	Lateral Casimir force between sinusoidally corrugated surfaces: Asymmetric profiles, deviations from the proximity force approximation, and comparison with exact theory. Physical Review B, 2010, 81, .	3.2	122

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145	Comparison of hydrodynamic and Dirac models of dispersion interaction between graphene and H,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>He</mml:mtext></mml:mrow><mml:mo>âˆ’</mml:mo></mml or Na atoms. Physical Review B, 2010, 82, .	3.2	39
146	THERMAL CASIMIR FORCE BETWEEN MAGNETIC MATERIALS. , 2010, , .		0
147	THE CASIMIR EFFECT AND THE FOUNDATIONS OF STATISTICAL PHYSICS. , 2010, , .		0
148	Demonstration of the asymmetric lateral Casimir force between corrugated surfaces in the nonadditive regime. Physical Review B, 2009, 80, .	3.2	90
149	Impact of magnetic properties on atom-wall interactions. Physical Review A, 2009, 79, .	2.5	27
150	Comment on â€œThermal Lifshitz Force between an Atom and a Conductor with a Small Density of Carriersâ€• Physical Review Letters, 2009, 102, 189301; author reply 189302.	7.8	13
151	Comment on â€œAnomalies in electrostatic calibrations for the measurement of the Casimir force in a sphere-plane geometryâ€• Physical Review A, 2009, 79, .	2.5	76
152	Comment on â€œContribution of Drifting Carriers to the Casimir-Lifshitz and Casimir-Polder Interactions with Semiconductor Materialsâ€• Physical Review Letters, 2009, 102, 189303; author reply 189304.	7.8	11
153	WHY SCREENING EFFECTS DO NOT INFLUENCE THE CASIMIR FORCE. International Journal of Modern Physics A, 2009, 24, 1721-1742.	1.5	42
154	PROBLEMS IN THE LIFSHITZ THEORY OF ATOM-WALL INTERACTION. International Journal of Modern Physics A, 2009, 24, 1777-1788.	1.5	35
155	Application of the proximity force approximation to gravitational and Yukawa-type forces. Physical Review D, 2009, 79, .	4.7	44
156	The Casimir force between real materials: Experiment and theory. Reviews of Modern Physics, 2009, 81, 1827-1885.	45.6	638
157	Problems and paradoxes of the Lifshitz theory. Journal of Physics: Conference Series, 2009, 161, 012002.	0.4	37
158	Analytic approach to the thermal Casimir force between metal and dielectric. Annals of Physics, 2008, 323, 291-316.	2.8	61
159	Thermal Casimir effect in ideal metal rectangular boxes. European Physical Journal C, 2008, 57, 823-834.	3.9	68
160	Problems in the theory of the thermal Casimir force between dielectrics and semiconductors. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164032.	2.1	24
161	Stronger constraints on non-Newtonian gravity from the Casimir effect. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164054.	2.1	46
162	van der Waals and Casimir interactions between atoms and carbon nanotubes. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164012.	2.1	38

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163	Comment on â€œPrecision measurement of the Casimir-Lifshitz force in a fluidâ€• Physical Review A, 2008, 77, .	2.5	36
164	Lifshitz theory of atom-wall interaction with applications to quantum reflection. Physical Review A, 2008, 78, .	2.5	67
165	Comment on â€œAnalytical and numerical verification of the Nernst theorem for metalsâ€• Physical Review E, 2008, 77, 023101; discussion 023102.	2.1	38
166	Thermal Casimirâ€"Polder force between an atom and a dielectric plate: thermodynamics and experiment. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 432001.	2.1	62
167	Conductivity of dielectric and thermal atomâ€"wall interaction. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 312002.	2.1	94
168	THEORY OF THE CASIMIR EFFECT BETWEEN DIELECTRIC AND SEMICONDUCTOR PLATES. , 2008, , .		0
169	Generalized plasma-like permittivity and thermal Casimir force between real metals. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 13485-13499.	2.1	47
170	Control of the Casimir force by the modification of dielectric properties with light. Physical Review B, 2007, 76, .	3.2	161
171	van der Waals interaction between a microparticle and a single-walled carbon nanotube. Physical Review B, 2007, 75, .	3.2	86
172	Experimental approaches to the difference in the Casimir force due to modifications in the optical properties of the boundary surface. Physical Review A, 2007, 75, .	2.5	61
173	Comment on â€œLateral Casimir Force beyond the Proximity-Force Approximationâ€• Physical Review Letters, 2007, 98, 068901; author reply 068902.	7.8	36
174	Kramersâ€"Kronig relations for plasma-like permittivities and the Casimir force. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F339-F346.	2.1	73
175	Demonstration of optically modulated dispersion forces. Optics Express, 2007, 15, 4823.	3.4	149
176	Tests of new physics from precise measurements of the Casimir pressure between two gold-coated plates. Physical Review D, 2007, 75, .	4.7	367
177	Comment on â€œEffects of spatial dispersion on electromagnetic surface modes and on modes associated with a gap between two half spacesâ€• Physical Review B, 2007, 75, .	3.2	44
178	Pulsating Casimir force. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F841-F847.	2.1	48
179	Novel constraints on light elementary particles and extra-dimensional physics from the Casimir effect. European Physical Journal C, 2007, 51, 963-975.	3.9	245
180	Thermal correction to the Casimir force, radiative heat transfer, and an experiment. European Physical Journal C, 2007, 52, 701-720.	3.9	59

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181	Lifshitz-type formulas for graphene and single-wall carbon nanotubes: van der Waals and Casimir interactions. Physical Review B, 2006, 74, .	3.2	121
182	Experiment and theory in the Casimir effect. Contemporary Physics, 2006, 47, 131-144.	1.8	85
183	RECENT RESULTS ON THERMAL CASIMIR FORCE BETWEEN DIELECTRICS AND RELATED PROBLEMS. International Journal of Modern Physics A, 2006, 21, 5007-5042.	1.5	52
184	Rigorous approach to the comparison between experiment and theory in Casimir force measurements. Journal of Physics A, 2006, 39, 6485-6493.	1.6	39
185	Dependence of the Casimirâ€"Polder interaction between an atom and a cavity wall on atomic and material properties. Journal of Physics A, 2006, 39, 6583-6587.	1.6	34
186	Casimirâ€"Polder interaction between an atom and a cylinder with application to nanosystems. Journal of Physics A, 2006, 39, 6481-6484.	1.6	45
187	Universal behaviour of dispersion forces between two dielectric plates in the low-temperature limit. Journal of Physics A, 2006, 39, 6495-6499.	1.6	55
188	Present status of controversies regarding the thermal Casimir force. Journal of Physics A, 2006, 39, 6589-6600.	1.6	75
189	Demonstration of the Difference in the Casimir Force for Samples with Different Charge-Carrier Densities. Physical Review Letters, 2006, 97, 170402.	7.8	125
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