

G Jordan Maclay

List of Publications by Year in descending order

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27
papers

1,066
citations

840585

11
h-index

610775

24
g-index

28
all docs

28
docs citations

28
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Vacuum Stress between Conducting Plates: An Image Solution. <i>Physical Review</i> , 1969, 184, 1272-1279.	2.7	448
2	The role of the casimir effect in the static deflection and stiction of membrane strips in microelectromechanical systems (MEMS). <i>Journal of Applied Physics</i> , 1998, 84, 2501-2506.	1.1	300
3	Analysis of zero-point electromagnetic energy and Casimir forces in conducting rectangular cavities. <i>Physical Review A</i> , 2000, 61, .	1.0	81
4	Use of the Curtis-Godson Approximation in Calculations of Radiant Heating by Inhomogeneous Hot Gases. <i>Applied Optics</i> , 1966, 5, 1791.	2.1	29
5	Sensor array and catalytic filament for chemical analysis of vapors and mixtures. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 43-47.	4.0	28
6	An integrated amperometric microsensor. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 303-307.	4.0	26
7	Of some theoretical significance: implications of Casimir effects. <i>European Journal of Physics</i> , 2001, 22, 463-469.	0.3	23
8	A Gedanken Spacecraft that Operates Using the Quantum Vacuum (Dynamic Casimir Effect). <i>Foundations of Physics</i> , 2004, 34, 477-500.	0.6	18
9	Effects of substrate temperature, deposition pressure, and thickness on the morphology of ultrathin platinum film on SiO ₂ /Si substrate. <i>Thin Solid Films</i> , 1992, 219, 257-265.	0.8	14
10	Errors in Spectral Absorption Measurements Due to Absorbing Species in the Atmosphere*. <i>Journal of the Optical Society of America</i> , 1964, 54, 301.	1.2	13
11	Complex impedance measurements of capacitor structures on silicon with copper phthalocyanine dielectric. <i>Journal of Applied Physics</i> , 1990, 67, 3409-3418.	1.1	12
12	Humidity Dependence of Carbon Monoxide Oxidation Rate in a Nafion [®] -Based Electrochemical Cell. <i>Journal of the Electrochemical Society</i> , 1995, 142, 157-160.	1.3	12
13	Dynamical Symmetries of the H Atom, One of the Most Important Tools of Modern Physics: SO(4) to SO(4,2), Background, Theory, and Use in Calculating Radiative Shifts. <i>Symmetry</i> , 2020, 12, 1323.	1.1	10
14	Integrated Absorptances of Spectral Line Groups in the 2.7- μ m Bands of Hot Water Vapor, Including Effects of Centrifugal Distortion. <i>Journal of Chemical Physics</i> , 1965, 43, 185-191.	1.2	8
15	Electrical properties, stability, and applications of ultrathin porous Pt films on SiO ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 3591-3597.	0.9	8
16	An impedance based ultra-thin platinum island film glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 749-751.	4.0	8
17	Gedanken experiments with Casimir forces and vacuum energy. <i>Physical Review A</i> , 2010, 82, .	1.0	7
18	History and Some Aspects of the Lamb Shift. <i>Physics</i> , 2020, 2, 105-147.	0.5	7

#	ARTICLE	IF	CITATIONS
19	Model for entangled states with spin-spin interaction. <i>Physical Review A</i> , 2004, 70, .	1.0	4
20	A design manual for micromachines using Casimir forces: Preliminary considerations. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	3
21	Spectroscopic determination of CO ₂ concentration in situ. <i>Proceedings of the Combustion Institute</i> , 1965, 10, 189-194.	0.3	2
22	Modulated photoionization detection of hydrazine compounds in mixtures without prior separation. <i>Analytical Chemistry</i> , 1991, 63, 1755-1759.	3.2	2
23	Testing a Quantum Inequality with a Meta-analysis of Data for Squeezed Light. <i>Foundations of Physics</i> , 2019, 49, 797-815.	0.6	2
24	Effect of quantum and thermal jitter on the feasibility of Bekenstein's proposed experiment to search for Planck-scale signals. <i>Physical Review D</i> , 2019, 99, .	1.6	1
25	A simple and inexpensive photographic process for generating multiple image masks from single image artwork. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1985, 3, 925.	1.6	0
26	The Role of Vacuum Fluctuations and Symmetry in the Hydrogen Atom in Quantum Mechanics and Stochastic Electrodynamics. <i>Atoms</i> , 2019, 7, 39.	0.7	0
27	An agent based force vector model of social influence that predicts strong polarization in a connected world. <i>PLoS ONE</i> , 2021, 16, e0259625.	1.1	0