

Ivar Giaever

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

4,556
citations

331259

21
h-index

500791

28
g-index

32
all docs

32
docs citations

32
times ranked

3449
citing authors

#	ARTICLE	IF	CITATIONS
1	A morphological biosensor for mammalian cells. <i>Nature</i> , 1993, 366, 591-592.	13.7	706
2	Electric Cellâ€“Substrate Impedance Sensing (ECIS) as a Noninvasive Means to Monitor the Kinetics of Cell Spreading to Artificial Surfaces. <i>Experimental Cell Research</i> , 2000, 259, 158-166.	1.2	694
3	Energy Gap in Superconductors Measured by Electron Tunneling. <i>Physical Review Letters</i> , 1960, 5, 147-148.	2.9	582
4	Electrical wound-healing assay for cells in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1554-1559.	3.3	385
5	Study of Superconductors by Electron Tunneling. <i>Physical Review</i> , 1961, 122, 1101-1111.	2.7	380
6	Electron Tunneling Between Two Superconductors. <i>Physical Review Letters</i> , 1960, 5, 464-466.	2.9	327
7	Use of Electric Fields to Monitor the Dynamical Aspect of Cell Behavior in Tissue Culture. <i>IEEE Transactions on Biomedical Engineering</i> , 1986, BME-33, 242-247.	2.5	241
8	Podokinesis in endothelial cell migration: role of nitric oxide. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C236-C244.	2.1	163
9	Monitoring Motion of Confluent Cells in Tissue Culture. <i>Experimental Cell Research</i> , 1993, 204, 102-109.	1.2	151
10	Permissive Role of Nitric Oxide in Endothelin-induced Migration of Endothelial Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 1747-1752.	1.6	143
11	Real-Time Impedance Assay to Follow the Invasive Activities of Metastatic Cells in Culture. <i>BioTechniques</i> , 2002, 33, 842-850.	0.8	140
12	Histamine alters endothelial barrier function at cell-cell and cell-matrix sites. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 278, L888-L898.	1.3	77
13	Detection of the ac Josephson Effect. <i>Physical Review Letters</i> , 1965, 14, 904-906.	2.9	73
14	Electrical Impedance of Cultured Endothelium Under Fluid Flow. <i>Annals of Biomedical Engineering</i> , 2001, 29, 648-656.	1.3	68
15	Recovery of Adherent Cells after In Situ Electroporation Monitored Electrically. <i>BioTechniques</i> , 2002, 33, 348-357.	0.8	65
16	Monitoring viral-induced cell death using electric cellâ€“substrate impedance sensing. <i>Biosensors and Bioelectronics</i> , 2007, 23, 536-542.	5.3	64
17	Impedance analysis of adherent cells after in situ electroporation: Non-invasive monitoring during intracellular manipulations. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4720-4727.	5.3	56
18	Fractal motion of mammalian cells. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 128-133.	1.3	48

#	ARTICLE	IF	CITATIONS
19	pH Changes in Pulsed CO2 Incubators Cause Periodic Changes in Cell Morphology. Experimental Cell Research, 1994, 213, 391-397.	1.2	45
20	Assessment of Rapid Morphological Changes Associated with Elevated cAMP Levels in Human Orbital Fibroblasts. Experimental Cell Research, 1998, 245, 360-367.	1.2	43
21	Combining optical and electrical impedance techniques for quantitative measurement of confluence in MDCK-I cell cultures. BioTechniques, 2004, 36, 650-662.	0.8	26
22	Morphological response of mammalian cells to pulsed ac fields. Bioelectrochemistry, 1994, 33, 121-133.	1.0	19
23	Effect of the pSV2-neo Plasmid on NIH 3T3 Cell Motion Detected Electrically. Experimental Cell Research, 1994, 212, 225-229.	1.2	16
24	Oscillations in Yeast Observed Electrically. Biological Rhythm Research, 1999, 30, 361-370.	0.4	13
25	A simple visual surface immunology test. Journal of Immunological Methods, 1978, 24, 57-61.	0.6	8
26	Correlated Motion and Oscillation of Neighboring Cells in Vitro. Cell Communication and Adhesion, 2001, 8, 139-145.	1.0	7
27	Variations in the biological clock of the slime mold Physarum polycephalum measured electrically. Journal of Interdisciplinary Cycle Research, 1993, 24, 81-89.	0.2	4
28	A novel electrical method to study plasmodial contractions in Physarum. Synchrony and temperature dependence. Biological Rhythm Research, 1995, 26, 316-330.	0.4	4
29	A Variation of the Radioimmune Assay. International Archives of Allergy and Immunology, 1980, 62, 324-329.	0.9	0
30	Morphology and motion of cells in culture. , 1999, , .		0