Ann M Rajnicek

List of Publications by Year
in descending order

40	2,856	394421 19	377865 34
papers	citations	h-index	g-index

41	41	41	3444
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlling Cell Behavior Electrically: Current Views and Future Potential. Physiological Reviews, 2005, 85, 943-978.	28.8	842
2	Hardwiring the Brain: Endocannabinoids Shape Neuronal Connectivity. Science, 2007, 316, 1212-1216.	12.6	463
3	Electrical dimensions in cell science. Journal of Cell Science, 2009, 122, 4267-4276.	2.0	256
4	A role for Lâ€Î±â€lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. British Journal of Pharmacology, 2010, 160, 762-771.	5.4	129
5	Has electrical growth cone guidance found its potential?. Trends in Neurosciences, 2002, 25, 354-359.	8.6	123
6	The Direction of Neurite Growth in a Weak DC Electric Field Depends on the Substratum: Contributions of Adhesivity and Net Surface Charge. Developmental Biology, 1998, 203, 412-423.	2.0	110
7	Electric fields are novel determinants of human macrophage functions. Journal of Leukocyte Biology, 2016, 99, 1141-1151.	3.3	104
8	Temporally and spatially coordinated roles for Rho, Rac, Cdc42 and their effectors in growth cone guidance by a physiological electric field. Journal of Cell Science, 2006, 119, 1723-1735.	2.0	100
9	Electrical fields, nerve growth and nerve regeneration. Experimental Physiology, 1991, 76, 473-494.	2.0	89
10	Growth cone steering by a physiological electric field requires dynamic microtubules, microfilaments and Rac-mediated filopodial asymmetry. Journal of Cell Science, 2006, 119, 1736-1745.	2.0	85
11	Alignment of corneal and lens epithelial cells by co-operative effects of substratum topography and DC electric fields. Biomaterials, 2008, 29, 2082-2095.	11.4	66
12	Prioritising guidance cues: Directional migration induced by substratum contours and electrical gradients is controlled by a rho/cdc42 switch. Developmental Biology, 2007, 312, 448-460.	2.0	51
13	Electric fieldâ€induced orientation of rat hippocampal neurones in vitro. Experimental Physiology, 1992, 77, 229-232.	2.0	50
14	Chronic wound state exacerbated by oxidative stress in Pax6^{+/â˜} aniridiaâ€related keratopathy. Journal of Pathology, 2008, 215, 421-430.	4.5	46
15	An endogenous sodium current may mediate wound healing in Xenopus neurulae. Developmental Biology, 1988, 128, 290-299.	2.0	43
16	Electric fields induce curved growth of Enterobacter cloacae, Escherichia coli, and Bacillus subtilis cells: implications for mechanisms of galvanotropism and bacterial growth. Journal of Bacteriology, 1994, 176, 702-713.	2.2	37
17	The role of electrical signals in murine corneal wound reâ€epithelialization. Journal of Cellular Physiology, 2011, 226, 1544-1553.	4.1	36
18	Electrical Stimulation Directs Migration, Enhances and Orients Cell Division and Upregulates the Chemokine Receptors CXCR4 and CXCR2 in Endothelial Cells. Journal of Vascular Research, 2019, 56, 39-53.	1.4	32

#	Article	IF	Citations
19	Controlling Nerve Growth with an Electric Field Induced Indirectly in Transparent Conductive Substrate Materials. Advanced Healthcare Materials, 2018, 7, e1800473.	7.6	29
20	Physiological strength electric fields modulate human T cell activation and polarisation. Scientific Reports, 2019, 9, 17604.	3.3	21
21	Contact-mediated control of radial migration of corneal epithelial cells. Molecular Vision, 2016, 22, 990-1004.	1.1	19
22	Interaction between hedgehog signalling and PAX6 dosage mediates maintenance and regeneration of the corneal epithelium. Molecular Vision, 2012, 18, 139-50.	1.1	18
23	Roles for IFT172 and Primary Cilia in Cell Migration, Cell Division, and Neocortex Development. Frontiers in Cell and Developmental Biology, 2019, 7, 287.	3.7	17
24	The core planar cell polarity gene,Vangl2, directs adult corneal epithelial cell alignment and migration. Royal Society Open Science, 2016, 3, 160658.	2.4	16
25	The ciliary GTPase Arl13b regulates cell migration and cell cycle progression. Cell Adhesion and Migration, 2016, 10, 393-405.	2.7	16
26	The potential of Antheraea pernyi silk for spinal cord repair. Scientific Reports, 2017, 7, 13790.	3.3	16
27	Electric field gradients and bipolar electrochemistry effects on neural growth: A finite element study on immersed electroactive conducting electrode materials. Electrochimica Acta, 2019, 317, 102-111.	5.2	13
28	TiO2 surfaces support neuron growth during electric field stimulation. Materials Science and Engineering C, 2017, 79, 1-8.	7.3	8
29	A refined rat primary neonatal microglial culture method that reduces time, cost and animal use. Journal of Neuroscience Methods, 2018, 304, 92-102.	2.5	8
30	Requirement ofPax6for the integration of guidance cues in cell migration. Royal Society Open Science, 2017, 4, 170625.	2.4	5
31	Computer-aided analysis of polarized neurite growth effects of applied electrical fields on neuronal development. Journal of Neuroscience Methods, 1990, 32, 45-54.	2.5	4
32	Effectiveness of biomaterial-based combination strategies for spinal cord repair â€“ a systematic review and meta-analysis of preclinical literature. Spinal Cord, 2022, 60, 1041-1049.	1.9	2
33	The Bioelectricity Revolution: A Discussion Among the Founding Associate Editors. Bioelectricity, 2019, 1, 8-15.	1.1	1
34	Methodology of Research and Applications of Electric Fields. Bioelectricity, 2020, 2, 320-320.	1.1	1
35	Call for Special Issue Papers: Methodology of Research and Applications of Electric Fields. Bioelectricity, 2020, 2, 3-3.	1.1	0
36	Richard Borgens, 1946â€“2019. Bioelectricity, 2020, 2, 205-205.	1.1	0

#	Article	IF	Citations
37	Recent, Bioelectricity-Related Articles Selected by Ann M. Rajnicek, Media Editor of Bioelectricity. Bioelectricity, 2021, 3, 147-153.	1.1	0
38	Recent Bioelectricity-Related Articles Selected by Ann M. Rajnicek, Media Editor of Bioelectricity. Bioelectricity, 2020, 2, 405-410.	1.1	0
39	Recent Bioelectricity-Related Articles Selected by Ann M. Rajnicek, Media Editor of Bioelectricity. Bioelectricity, 2022, 4, 59-64.	1.1	0
40	Bioelectricity Buzz. Bioelectricity, 2022, 4, 126-132.	1.1	0