Devrim Kilinc

List of Publications by Year
in descending order

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33 papers	1,020 citations	430754 18 h-index	477173 29 g-index
37 all docs	37 docs citations	37 times ranked	2035 citing authors

#	Article	IF	Citations
1	Mechanically-induced membrane poration causes axonal beading and localized cytoskeletal damage. Experimental Neurology, 2008, 212, 422-430.	2.0	126
2	The new genetic landscape of Alzheimerâ€™s disease: from amyloid cascade to genetically driven synaptic failure hypothesis?. Acta Neuropathologica, 2019, 138, 221-236.	3.9	122
3	Mechanical membrane injury induces axonal beading through localized activation of calpain. Experimental Neurology, 2009, 219, 553-561.	2.0	93
4	Advances in magnetic tweezers for single molecule and cell biophysics. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	78
5	Wallerian-Like Degeneration of Central Neurons After Synchronized and Geometrically Registered Mass Axotomy in a Three-Compartmental Microfluidic Chip. Neurotoxicity Research, 2011, 19, 149-161.	1.3	66
6	Bioâ€Nanoâ€Magnetic Materials for Localized Mechanochemical Stimulation of Cell Growth and Death. Advanced Materials, 2016, 28, 5672-5680.	11.1	53
7	The Emerging Role of Mechanics in Synapse Formation and Plasticity. Frontiers in Cellular Neuroscience, 2018, 12, 483.	1.8	49
8	BIN1 recovers tauopathy-induced long-term memory deficits in mice and interacts with Tau through Thr348 phosphorylation. Acta Neuropathologica, 2019, 138, 631-652.	3.9	44
9	NAD ⁺ acts on mitochondrial SirT3 to prevent axonal caspase activation and axonal degeneration. FASEB Journal, 2013, 27, 4712-4722.	0.2	42
10	Low Piconewton Towing of CNS Axons against Diffusing and Surface-Bound Repellents Requires the Inhibition of Motor Protein-Associated Pathways. Scientific Reports, 2014, 4, 7128.	1.6	42
11	Alzheimerâ€™s genetic risk factor FERMT2 (Kindlin-2) controls axonal growth and synaptic plasticity in an APP-dependent manner. Molecular Psychiatry, 2021, 26, 5592-5607.	4.1	28
12	Mechanochemical Stimulation of MCF7 Cells with Rodâ€Shaped Feâ€“Au Janus Particles Induces Cell Death Through Paradoxical Hyperactivation of ERK. Advanced Healthcare Materials, 2015, 4, 395-404.	3.9	26
13	Microtechnologies for studying the role of mechanics in axon growth and guidance. Frontiers in Cellular Neuroscience, 2015, 9, 282.	1.8	25
14	A microfluidic dual gradient generator for conducting cell-based drug combination assays. Integrative Biology (United Kingdom), 2016, 8, 39-49.	0.6	25
15	Poloxamer 188 Reduces Axonal Beading Following Mechanical Trauma to Cultured Neurons. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5395-8.	0.5	21
16	Flow enhanced non-linear magnetophoretic separation of beads based on magnetic susceptibility. Lab on A Chip, 2013, 13, 4400.	3.1	21
17	Synthesis of Superparamagnetic Particles with Tunable Morphologies: The Role of Nanoparticleâ€“Nanoparticle Interactions. Langmuir, 2013, 29, 2546-2553.	1.6	21
18	Charge and topography patterned lithium niobate provides physical cues to fluidically isolated cortical axons. Applied Physics Letters, 2017, 110, .	1.5	19

#	Article	IF	Citations
19	Rapid Growth Cone Uptake and Dyneinâ€Mediated Axonal Retrograde Transport of Negatively Charged Nanoparticles in Neurons Is Dependent on Size and Cell Type. Small, 2019, 15, e1803758.	5.2	17
20	Neuron Subpopulations with Different Elongation Rates and DCC Dynamics Exhibit Distinct Responses to Isolated Netrin-1 Treatment. ACS Chemical Neuroscience, 2015, 6, 1578-1590.	1.7	16
21	Neuronal Cell Bodies Remotely Regulate Axonal Growth Response to Localized Netrin-1 Treatment via Second Messenger and DCC Dynamics. Frontiers in Cellular Neuroscience, 2016, 10, 298.	1.8	15
22	Magnetic Tweezers-Based Force Clamp Reveals Mechanically Distinct apCAM Domain Interactions. Biophysical Journal, 2012, 103, 1120-1129.	0.2	13
23	Micromagnet arrays for on-chip focusing, switching, and separation of superparamagnetic beads and single cells. Lab on A Chip, 2015, 15, 3370-3379.	3.1	13
24	Pyk2 overexpression in postsynaptic neurons blocks amyloid Î²1â€“42-induced synaptotoxicity in microfluidic co-cultures. Brain Communications, 2020, 2, fcaa139.	1.5	13
25	Interactive image analysis programs for quantifying injury-induced axonal beading and microtubule disruption. Computer Methods and Programs in Biomedicine, 2009, 95, 62-71.	2.6	12
26	Analysis of Cellâ€Cell Contact Mediated by Ig Superfamily Cell Adhesion Molecules. Current Protocols in Cell Biology, 2013, 61, 9.5.1-9.5.85.	2.3	4
27	Highâ€Content Screening for Proteinâ€Protein Interaction Modulators Using Proximity Ligation Assay in Primary Neurons. Current Protocols in Cell Biology, 2020, 86, e100.	2.3	4
28	Towards a Method for Printing a Network of Chick Forebrain Neurons for Biosensor Applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4092-5.	0.5	3
29	Parallel Force Measurement in Cell Arrays. , 2007, , .		1
30	In vitro study of the interaction of heregulin-functionalized magneticâ€“optical nanorods with MCF7 and MDA-MB-231 cells. Faraday Discussions, 2014, 175, 189-201.	1.6	1
31	Subcellular Compartmentalization for Neurobiology: Focusing on the Axon. , 2021, , 1-35.		1
32	Neurochemistry: Rapid Growth Cone Uptake and Dynein-Mediated Axonal Retrograde Transport of Negatively Charged Nanoparticles in Neurons Is Dependent on Size and Cell Type (Small 2/2019). Small, 2019, 15, 1970012.	5.2	0
33	Characterization of Intermolecular and Intramolecular Interactions with the Atomic Force Microscope. , 2014, , 445-456.		0