

Edward A Burton

List of Publications by Year in descending order

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63
papers

3,381
citations

159573

30
h-index

149686

56
g-index

70
all docs

70
docs citations

70
times ranked

4768
citing authors

#	ARTICLE	IF	CITATIONS
1	α -Synuclein binds to TOM20 and inhibits mitochondrial protein import in Parkinson's disease. <i>Science Translational Medicine</i> , 2016, 8, 342ra78.	12.4	432
2	LRRK2 activation in idiopathic Parkinson's disease. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	363
3	Bioenergetics of neurons inhibit the translocation response of Parkin following rapid mitochondrial depolarization. <i>Human Molecular Genetics</i> , 2011, 20, 927-940.	2.9	200
4	shRNA targeting α -synuclein prevents neurodegeneration in a Parkinson's disease model. <i>Journal of Clinical Investigation</i> , 2015, 125, 2721-2735.	8.2	143
5	A- and B-utrophin Have Different Expression Patterns and Are Differentially Up-regulated in mdx Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 45285-45290.	3.4	114
6	Glucocerebrosidase 1 deficient <i>Danio rerio</i> mirror key pathological aspects of human Gaucher disease and provide evidence of early microglial activation preceding alpha-synuclein-independent neuronal cell death. <i>Human Molecular Genetics</i> , 2015, 24, 6640-6652.	2.9	108
7	Genetic zebrafish models of neurodegenerative diseases. <i>Neurobiology of Disease</i> , 2010, 40, 58-65.	4.4	107
8	Generation of a transgenic zebrafish model of Tauopathy using a novel promoter element derived from the zebrafish <i>eno2</i> gene. <i>Nucleic Acids Research</i> , 2007, 35, 6501-6516.	14.5	104
9	Muscle and Neural Isoforms of Agrin Increase Utrophin Expression in Cultured Myotubes via a Transcriptional Regulatory Mechanism. <i>Journal of Biological Chemistry</i> , 1998, 273, 736-743.	3.4	85
10	Gene Delivery Using Herpes Simplex Virus Vectors. <i>DNA and Cell Biology</i> , 2002, 21, 915-936.	1.9	85
11	Transgenic zebrafish models of neurodegenerative diseases. <i>Brain Structure and Function</i> , 2010, 214, 285-302.	2.3	85
12	Astrocyte-specific DJ-1 overexpression protects against rotenone-induced neurotoxicity in a rat model of Parkinson's disease. <i>Neurobiology of Disease</i> , 2018, 115, 101-114.	4.4	83
13	Claudin k is specifically expressed in cells that form myelin during development of the nervous system and regeneration of the optic nerve in adult zebrafish. <i>Glia</i> , 2012, 60, 253-270.	4.9	78
14	Hypokinesia and Reduced Dopamine Levels in Zebrafish Lacking α 2- and α 31-Synucleins. <i>Journal of Biological Chemistry</i> , 2012, 287, 2971-2983.	3.4	71
15	Single-Cell Redox Imaging Demonstrates a Distinctive Response of Dopaminergic Neurons to Oxidative Insults. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 855-871.	5.4	70
16	Multiple Applications For Replication-Defective Herpes Simplex Virus Vectors. <i>Stem Cells</i> , 2001, 19, 358-377.	3.2	69
17	Research on the Premotor Symptoms of Parkinson's Disease: Clinical and Etiological Implications. <i>Environmental Health Perspectives</i> , 2013, 121, 1245-1252.	6.0	68
18	Zebrafish DJ-1 is evolutionarily conserved and expressed in dopaminergic neurons. <i>Brain Research</i> , 2006, 1113, 33-44.	2.2	64

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19	Muscular Dystrophy—Reason for Optimism?. <i>Cell</i> , 2002, 108, 5-8.	28.9	61
20	Frontotemporal degeneration, the next therapeutic frontier: Molecules and animal models for frontotemporal degeneration drug development. <i>Alzheimer's and Dementia</i> , 2013, 9, 176-188.	0.8	58
21	Pseudotype-dependent lentiviral transduction of astrocytes or neurons in the rat substantia nigra. <i>Experimental Neurology</i> , 2011, 228, 41-52.	4.1	56
22	Evaluation of spontaneous propulsive movement as a screening tool to detect rescue of Parkinsonism phenotypes in zebrafish models. <i>Neurobiology of Disease</i> , 2011, 44, 9-18.	4.4	55
23	The advantages of frontotemporal degeneration drug development (part 2 of frontotemporal) <i>Trends in Neurosciences</i> , 2014, 37, 10-14.	0.8	48
24	Quantification of larval zebrafish motor function in multiwell plates using open-source MATLAB applications. <i>Nature Protocols</i> , 2014, 9, 1533-1548.	12.0	47
25	Replication-defective genomic herpes simplex vectors: design and production. <i>Current Opinion in Biotechnology</i> , 2002, 13, 424-428.	6.6	45
26	Automated measurement of zebrafish larval movement. <i>Journal of Physiology</i> , 2011, 589, 3703-3708.	2.9	45
27	Live imaging of mitochondrial dynamics in CNS dopaminergic neurons in vivo demonstrates early reversal of mitochondrial transport following MPP+ exposure. <i>Neurobiology of Disease</i> , 2016, 95, 238-249.	4.4	44
28	Soluble V Domain of Nectin-1/HveC Enables Entry of Herpes Simplex Virus Type 1 (HSV-1) into HSV-Resistant Cells by Binding to Viral Glycoprotein D. <i>Journal of Virology</i> , 2006, 80, 138-148.	3.4	43
29	Regeneration of the zebrafish retinal pigment epithelium after widespread genetic ablation. <i>PLoS Genetics</i> , 2019, 15, e1007939.	3.5	43
30	Long-term RNAi knockdown of α -synuclein in the adult rat substantia nigra without neurodegeneration. <i>Neurobiology of Disease</i> , 2019, 125, 146-153.	4.4	38
31	Astroglial DJ-1 over-expression up-regulates proteins involved in redox regulation and is neuroprotective in vivo. <i>Redox Biology</i> , 2018, 16, 237-247.	9.0	31
32	An open-source method to analyze optokinetic reflex responses in larval zebrafish. <i>Journal of Neuroscience Methods</i> , 2018, 293, 329-337.	2.5	29
33	Acquired dysregulation of dopamine homeostasis reproduces features of Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 34.	5.3	29
34	α -Synuclein amplifies cytoplasmic peroxide flux and oxidative stress provoked by mitochondrial inhibitors in CNS dopaminergic neurons in vivo. <i>Redox Biology</i> , 2020, 37, 101695.	9.0	26
35	Cis-acting elements responsible for dopaminergic neuron-specific expression of zebrafish <i>slc6a3</i> (dopamine transporter) in vivo are located remote from the transcriptional start site. <i>Neuroscience</i> , 2009, 164, 1138-1151.	2.3	25
36	Spectral properties of the zebrafish visual motor response. <i>Neuroscience Letters</i> , 2017, 646, 62-67.	2.1	25

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37	Zebrafish models of Tauopathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 353-363.	3.8	24
38	Major isoform of zebrafish PO is a 23.5 kDa myelin glycoprotein expressed in selected white matter tracts of the central nervous system. <i>Journal of Comparative Neurology</i> , 2011, 519, 1580-1596.	1.6	24
39	Targeting gene expression using HSV vectors. <i>Advanced Drug Delivery Reviews</i> , 2001, 53, 155-170.	13.7	23
40	Seizures are a druggable mechanistic link between TBI and subsequent tauopathy. <i>ELife</i> , 2021, 10, .	6.0	22
41	The Stable 2.0-Kilobase Intron of the Herpes Simplex Virus Type 1 Latency-Associated Transcript Does Not Function as an Antisense Repressor of ICPO in Nonneuronal Cells. <i>Journal of Virology</i> , 2003, 77, 3516-3530.	3.4	21
42	Chemoptogenetic ablation of neuronal mitochondria in vivo with spatiotemporal precision and controllable severity. <i>ELife</i> , 2020, 9, .	6.0	20
43	Ablation of the pro-inflammatory master regulator miR-155 does not mitigate neuroinflammation or neurodegeneration in a vertebrate model of Gaucher's disease. <i>Neurobiology of Disease</i> , 2019, 127, 563-569.	4.4	19
44	Replication-defective genomic HSV gene therapy vectors: design, production and CNS applications. <i>Current Opinion in Molecular Therapeutics</i> , 2005, 7, 326-36.	2.8	19
45	NADPH oxidase 2 activity in Parkinson's disease. <i>Neurobiology of Disease</i> , 2022, 170, 105754.	4.4	18
46	Expression of a 12-kb promoter element derived from the zebrafish enolase-2 gene in the zebrafish visual system. <i>Neuroscience Letters</i> , 2009, 449, 252-257.	2.1	16
47	Survival of transplanted neural progenitor cells enhanced by brain irradiation. <i>Journal of Neurosurgery</i> , 2007, 107, 383-391.	1.6	15
48	Different Mechanisms Regulate Expression of Zebrafish Myelin Protein Zero (PO) in Myelinating Oligodendrocytes and Its Induction following Axonal Injury. <i>Journal of Biological Chemistry</i> , 2014, 289, 24114-24128.	3.4	14
49	Modulation of the zebrafish optokinetic reflex by pharmacologic agents targeting GABAA receptors. <i>Neuroscience Letters</i> , 2018, 671, 33-37.	2.1	11
50	Multi-modal combination gene therapy for malignant glioma using replication-defective HSV vectors. <i>Drug Discovery Today</i> , 2001, 6, 347-356.	6.4	10
51	Quantitative Responses of Adult Zebrafish to Changes in Ambient Illumination. <i>Zebrafish</i> , 2017, 14, 508-516.	1.1	8
52	The Zebrafish Homologue of the Human DYT1 Dystonia Gene Is Widely Expressed in CNS Neurons but Non-Essential for Early Motor System Development. <i>PLoS ONE</i> , 2012, 7, e45175.	2.5	6
53	The Developmental Toxicity of Complex Silica-Embedded Nickel Nanoparticles Is Determined by Their Physicochemical Properties. <i>PLoS ONE</i> , 2016, 11, e0152010.	2.5	6
54	Use of the Herpes Simplex Viral Genome to Construct Gene Therapy Vectors. , 2003, 76, 01-32.		5

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55	Mechanism of Pacemaker Activity in Zebrafish DC2/4 Dopaminergic Neurons. Journal of Neuroscience, 2021, 41, 4141-4157.	3.6	4
56	Of fish, flies, worms and men: Powerful approaches to neuropsychiatric disease using genetic models. Neurobiology of Disease, 2010, 40, 1-3.	4.4	2
57	Zebrafish. , 2015, , 117-138.		2
58	Virus-based vectors for gene expression in mammalian cells: Herpes simplex virus. New Comprehensive Biochemistry, 2003, 38, 27-54.	0.1	1
59	Sinusoidal analysis reveals a non-linear and dopamine-dependent relationship between ambient illumination and motor activity in larval zebrafish. Neuroscience Letters, 2021, 761, 136121.	2.1	1
60	Redirecting the Tropism of HSV-1 for Gene Therapy Applications. , 2003, , 377-403.		0
61	Quantitative Tools for Phenotype-Based Drug Discovery in Zebrafish Models of Neurological Disease. FASEB Journal, 2021, 35, .	0.5	0
62	Gene Therapy Approaches in Neurology. , 2007, , 101-123.		0
63	Herpes Simplex Virus Vectors for Gene Therapy of Lysosomal Storage Disorders. , 2007, , 111-131.		0