

Kenji F Tanaka

List of Publications by Year in descending order

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156
papers

10,064
citations

46918

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40881

93
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169
all docs

169
docs citations

169
times ranked

14198
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. <i>Science</i> , 2018, 359, 679-684. | 6.0 | 856 |
| 2 | Lrp5 Controls Bone Formation by Inhibiting Serotonin Synthesis in the Duodenum. <i>Cell</i> , 2008, 135, 825-837. | 13.5 | 751 |
| 3 | A Serotonin-Dependent Mechanism Explains the Leptin Regulation of Bone Mass, Appetite, and Energy Expenditure. <i>Cell</i> , 2009, 138, 976-989. | 13.5 | 565 |
| 4 | Hippocampal Memory Traces Are Differentially Modulated by Experience, Time, and Adult Neurogenesis. <i>Neuron</i> , 2014, 83, 189-201. | 3.8 | 425 |
| 5 | Shared Synaptic Pathophysiology in Syndromic and Nonsyndromic Rodent Models of Autism. <i>Science</i> , 2012, 338, 128-132. | 6.0 | 278 |
| 6 | Transformation of Astrocytes to a Neuroprotective Phenotype by Microglia via P2Y1 Receptor Downregulation. <i>Cell Reports</i> , 2017, 19, 1151-1164. | 2.9 | 264 |
| 7 | Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. <i>Genome Biology</i> , 2015, 16, 87. | 3.8 | 250 |
| 8 | Functional Connectome of the Striatal Medium Spiny Neuron. <i>Journal of Neuroscience</i> , 2011, 31, 1183-1192. | 1.7 | 237 |
| 9 | A three-dimensional single-cell-resolution whole-brain atlas using CUBIC-X expansion microscopy and tissue clearing. <i>Nature Neuroscience</i> , 2018, 21, 625-637. | 7.1 | 234 |
| 10 | Chemical Landscape for Tissue Clearing Based on Hydrophilic Reagents. <i>Cell Reports</i> , 2018, 24, 2196-2210.e9. | 2.9 | 221 |
| 11 | Optogenetic Activation of Dorsal Raphe Serotonin Neurons Enhances Patience for Future Rewards. <i>Current Biology</i> , 2014, 24, 2033-2040. | 1.8 | 200 |
| 12 | Optogenetic Manipulation of Activity and Temporally Controlled Cell-Specific Ablation Reveal a Role for MCH Neurons in Sleep/Wake Regulation. <i>Journal of Neuroscience</i> , 2014, 34, 6896-6909. | 1.7 | 187 |
| 13 | Expanding the Repertoire of Optogenetically Targeted Cells with an Enhanced Gene Expression System. <i>Cell Reports</i> , 2012, 2, 397-406. | 2.9 | 159 |
| 14 | In Vivo Visualization of Subtle, Transient, and Local Activity of Astrocytes Using an Ultrasensitive Ca ²⁺ Indicator. <i>Cell Reports</i> , 2014, 8, 311-318. | 2.9 | 158 |
| 15 | 5-HT _{1A} receptors on mature dentate gyrus granule cells are critical for the antidepressant response. <i>Nature Neuroscience</i> , 2015, 18, 1606-1616. | 7.1 | 156 |
| 16 | Optogenetic Countering of Glial Acidosis Suppresses Glial Glutamate Release and Ischemic Brain Damage. <i>Neuron</i> , 2014, 81, 314-320. | 3.8 | 154 |
| 17 | Mitral Cells in the Olfactory Bulb Are Mainly Excited through a Multistep Signaling Path. <i>Journal of Neuroscience</i> , 2012, 32, 2964-2975. | 1.7 | 145 |
| 18 | Application of an optogenetic byway for perturbing neuronal activity via glial photostimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20720-20725. | 3.3 | 139 |

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|----|--|------|-----------|
| 19 | Behavioral and serotonergic consequences of decreasing or increasing hippocampus brain-derived neurotrophic factor protein levels in mice. <i>Neuropharmacology</i> , 2008, 55, 1006-1014. | 2.0 | 136 |
| 20 | Astroglial Glutamate Transporter Deficiency Increases Synaptic Excitability and Leads to Pathological Repetitive Behaviors in Mice. <i>Neuropsychopharmacology</i> , 2015, 40, 1569-1579. | 2.8 | 126 |
| 21 | Ce-TZP/Al ₂ O ₃ nanocomposite as a bearing material in total joint replacement. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 262-270. | 3.0 | 122 |
| 22 | Heparan Sulfate Organizes Neuronal Synapses through Neurexin Partnerships. <i>Cell</i> , 2018, 174, 1450-1464.e23. | 13.5 | 118 |
| 23 | Long-lasting silencing of orexin/hypocretin neurons using archaerhodopsin induces slow-wave sleep in mice. <i>Behavioural Brain Research</i> , 2013, 255, 64-74. | 1.2 | 117 |
| 24 | Genetic fate mapping of Olig2 progenitors in the injured adult cerebral cortex reveals preferential differentiation into astrocytes. <i>Journal of Neuroscience Research</i> , 2008, 86, 3494-3502. | 1.3 | 110 |
| 25 | High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. <i>Neuron</i> , 2017, 94, 1085-1100.e6. | 3.8 | 108 |
| 26 | Flexible Accelerated STOP Tetracycline Operator-Knockin (FAST): A Versatile and Efficient New Gene Modulating System. <i>Biological Psychiatry</i> , 2010, 67, 770-773. | 0.7 | 101 |
| 27 | Ventrolateral Striatal Medium Spiny Neurons Positively Regulate Food-Incentive, Goal-Directed Behavior Independently of D1 and D2 Selectivity. <i>Journal of Neuroscience</i> , 2017, 37, 2723-2733. | 1.7 | 99 |
| 28 | Serotonin receptor expression along the dorsal-ventral axis of mouse hippocampus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2395-2401. | 1.8 | 98 |
| 29 | Existence of functional α 1- and α 2-adrenergic receptors on microglia. <i>Journal of Neuroscience Research</i> , 2002, 70, 232-237. | 1.3 | 96 |
| 30 | Revising polypharmacy to a single antipsychotic regimen for patients with chronic schizophrenia. <i>International Journal of Neuropsychopharmacology</i> , 2004, 7, 133-142. | 1.0 | 90 |
| 31 | Optogenetic activation of serotonergic neurons enhances anxiety-like behaviour in mice. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 1777-1783. | 1.0 | 87 |
| 32 | Distinct Circuits Underlie the Effects of 5-HT _{1B} Receptors on Aggression and Impulsivity. <i>Neuron</i> , 2015, 86, 813-826. | 3.8 | 87 |
| 33 | Anti-Depressant Fluoxetine Reveals its Therapeutic Effect Via Astrocytes. <i>EBioMedicine</i> , 2018, 32, 72-83. | 2.7 | 80 |
| 34 | Serum interleukin-18 levels are elevated in schizophrenia. <i>Psychiatry Research</i> , 2000, 96, 75-80. | 1.7 | 79 |
| 35 | Leptin-dependent serotonin control of appetite: temporal specificity, transcriptional regulation, and therapeutic implications. <i>Journal of Experimental Medicine</i> , 2011, 208, 41-52. | 4.2 | 78 |
| 36 | Physiological effects of a habituation procedure for functional MRI in awake mice using a cryogenic radiofrequency probe. <i>Journal of Neuroscience Methods</i> , 2016, 274, 38-48. | 1.3 | 78 |

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|----|--|-----|-----------|
| 37 | Adult Hippocampal Neurogenesis Modulates Fear Learning through Associative and Nonassociative Mechanisms. <i>Journal of Neuroscience</i> , 2015, 35, 11330-11345. | 1.7 | 76 |
| 38 | Essential role of microglial transforming growth factor- β 21 in antidepressant actions of (R)-ketamine and the novel antidepressant TGF- β 21. <i>Translational Psychiatry</i> , 2020, 10, 32. | 2.4 | 75 |
| 39 | Unveiling astrocytic control of cerebral blood flow with optogenetics. <i>Scientific Reports</i> , 2015, 5, 11455. | 1.6 | 72 |
| 40 | Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. <i>Glia</i> , 2018, 66, 2013-2023. | 2.5 | 72 |
| 41 | Phase stability after aging and its influence on pin-on-disk wear properties of Ce-TZP/Al ₂ O ₃ nanocomposite and conventional Y-TZP. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 67A, 200-207. | 3.0 | 68 |
| 42 | Murine model of Alexander disease: Analysis of GFAP aggregate formation and its pathological significance. <i>Glia</i> , 2007, 55, 617-631. | 2.5 | 67 |
| 43 | Preinspiratory calcium rise in putative pre-Bötzing complex astrocytes. <i>Journal of Physiology</i> , 2012, 590, 4933-4944. | 1.3 | 67 |
| 44 | Mice with Altered Myelin Proteolipid Protein Gene Expression Display Cognitive Deficits Accompanied by Abnormal Neuron-Glia Interactions and Decreased Conduction Velocities. <i>Journal of Neuroscience</i> , 2009, 29, 8363-8371. | 1.7 | 66 |
| 45 | Mammalian Gcm genes induce Hes5 expression by active DNA demethylation and induce neural stem cells. <i>Nature Neuroscience</i> , 2011, 14, 957-964. | 7.1 | 62 |
| 46 | Microglial cystatin F expression is a sensitive indicator for ongoing demyelination with concurrent remyelination. <i>Journal of Neuroscience Research</i> , 2011, 89, 639-649. | 1.3 | 62 |
| 47 | Serotonin-mediated inhibition of ventral hippocampus is required for sustained goal-directed behavior. <i>Nature Neuroscience</i> , 2019, 22, 770-777. | 7.1 | 61 |
| 48 | Calcium Transient Dynamics of Neural Ensembles in the Primary Motor Cortex of Naturally Behaving Monkeys. <i>Cell Reports</i> , 2018, 24, 2191-2195.e4. | 2.9 | 57 |
| 49 | Short- and long-term functional plasticity of white matter induced by oligodendrocyte depolarization in the hippocampus. <i>Glia</i> , 2014, 62, 1299-1312. | 2.5 | 54 |
| 50 | Reward probability and timing uncertainty alter the effect of dorsal raphe serotonin neurons on patience. <i>Nature Communications</i> , 2018, 9, 2048. | 5.8 | 54 |
| 51 | Different roles of distinct serotonergic pathways in anxiety-like behavior, antidepressant-like, and anti-impulsive effects. <i>Neuropharmacology</i> , 2020, 167, 107703. | 2.0 | 53 |
| 52 | Optogenetic Activation of CA1 Pyramidal Neurons at the Dorsal and Ventral Hippocampus Evokes Distinct Brain-Wide Responses Revealed by Mouse fMRI. <i>PLoS ONE</i> , 2015, 10, e0121417. | 1.1 | 49 |
| 53 | YAP functions as a mechanotransducer in oligodendrocyte morphogenesis and maturation. <i>Glia</i> , 2017, 65, 360-374. | 2.5 | 47 |
| 54 | Synergistic neurochemical and behavioural effects of acute intrahippocampal injection of brain-derived neurotrophic factor and antidepressants in adult mice. <i>International Journal of Neuropsychopharmacology</i> , 2009, 12, 905-915. | 1.0 | 46 |

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|----|--|-----|-----------|
| 55 | Dysfunction of ventrolateral striatal dopamine receptor type 2-expressing medium spiny neurons impairs instrumental motivation. <i>Nature Communications</i> , 2017, 8, 14304. | 5.8 | 46 |
| 56 | Influence of Inhibitory Serotonergic Inputs to Orexin/Hypocretin Neurons on the Diurnal Rhythm of Sleep and Wakefulness. <i>Sleep</i> , 2013, 36, 1391-1404. | 0.6 | 42 |
| 57 | Identification and Characterization of Differentially Expressed mRNAs in HIV Type 1-Infected Human T Cells. <i>AIDS Research and Human Retroviruses</i> , 2000, 16, 995-1005. | 0.5 | 41 |
| 58 | Preservation of hematopoietic properties in transplanted bone marrow cells in the brain. <i>Journal of Neuroscience Research</i> , 2003, 72, 503-507. | 1.3 | 40 |
| 59 | Short-term lineage analysis of dorsally derived Olig3 cells in the developing spinal cord. <i>Developmental Dynamics</i> , 2005, 234, 622-632. | 0.8 | 40 |
| 60 | An animal model for late onset chronic demyelination disease caused by failed terminal differentiation of oligodendrocytes. <i>Neuron Glia Biology</i> , 2006, 2, 81-91. | 2.0 | 40 |
| 61 | Increased astrocytic ATP release results in enhanced excitability of the hippocampus. <i>Glia</i> , 2013, 61, 210-224. | 2.5 | 40 |
| 62 | Induced Expression of Cathepsins and Cystatin C in a Murine Model of Demyelination. <i>Neurochemical Research</i> , 2007, 32, 311-320. | 1.6 | 39 |
| 63 | Astrocytic cAMP modulates memory via synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 39 |
| 64 | Ectopic expression of melanopsin in orexin/hypocretin neurons enables control of wakefulness of mice in vivo by blue light. <i>Neuroscience Research</i> , 2013, 75, 23-28. | 1.0 | 37 |
| 65 | Identification of Lacrimal Gland Postganglionic Innervation and Its Regulation of Tear Secretion. <i>American Journal of Pathology</i> , 2020, 190, 1068-1079. | 1.9 | 37 |
| 66 | Neuronal Heterotopias Affect the Activities of Distant Brain Areas and Lead to Behavioral Deficits. <i>Journal of Neuroscience</i> , 2015, 35, 12432-12445. | 1.7 | 36 |
| 67 | Role of Purinergic Receptor P2Y1 in Spatiotemporal Ca ²⁺ Dynamics in Astrocytes. <i>Journal of Neuroscience</i> , 2018, 38, 1383-1395. | 1.7 | 36 |
| 68 | Varying perivascular astroglial endfoot dimensions along the vascular tree maintain perivascular interstitial flux through the cortical mantle. <i>Glia</i> , 2021, 69, 715-728. | 2.5 | 36 |
| 69 | Abrogated Freud-1/Cc2d1a Repression of 5-HT1A Autoreceptors Induces Fluoxetine-Resistant Anxiety/Depression-Like Behavior. <i>Journal of Neuroscience</i> , 2017, 37, 11967-11978. | 1.7 | 35 |
| 70 | Photoactivated adenylyl cyclase (PAC) reveals novel mechanisms underlying cAMP-dependent axonal morphogenesis. <i>Scientific Reports</i> , 2016, 6, 19679. | 1.6 | 34 |
| 71 | Mitochondrial DNA Double-Strand Breaks in Oligodendrocytes Cause Demyelination, Axonal Injury, and CNS Inflammation. <i>Journal of Neuroscience</i> , 2017, 37, 10185-10199. | 1.7 | 34 |
| 72 | Detection of a High-Turnover Serotonin Circuit in the Mouse Brain Using Mass Spectrometry Imaging. <i>IScience</i> , 2019, 20, 359-372. | 1.9 | 33 |

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|----|---|-----|-----------|
| 73 | Quantitative temporal changes in DTI values coupled with histological properties in cuprizone-induced demyelination and remyelination. <i>Neurochemistry International</i> , 2018, 119, 151-158. | 1.9 | 32 |
| 74 | Neuroprotective effects of microglial P2Y ₁ receptors against ischemic neuronal injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2144-2156. | 2.4 | 32 |
| 75 | A gradual temporal shift of dopamine responses mirrors the progression of temporal difference error in machine learning. <i>Nature Neuroscience</i> , 2022, 25, 1082-1092. | 7.1 | 32 |
| 76 | Reducing the dose of antipsychotic medications for those who had been treated with high-dose antipsychotic polypharmacy: an open study of dose reduction for chronic schizophrenia. <i>International Clinical Psychopharmacology</i> , 2003, 18, 323-329. | 0.9 | 30 |
| 77 | Gene induction in mature oligodendrocytes with a PLP ϵ TA mouse line. <i>Genesis</i> , 2012, 50, 424-428. | 0.8 | 30 |
| 78 | Concentration-Dependent Dual Mode of Zn Action at Serotonin 5-HT _{1A} Receptors: In Vitro and In Vivo Studies. <i>Molecular Neurobiology</i> , 2016, 53, 6869-6881. | 1.9 | 30 |
| 79 | Serotonergic projections to the orbitofrontal and medial prefrontal cortices differentially modulate waiting for future rewards. <i>Science Advances</i> , 2020, 6, . | 4.7 | 30 |
| 80 | Distinct Roles of Ventromedial versus Ventrolateral Striatal Medium Spiny Neurons in Reward-Oriented Behavior. <i>Current Biology</i> , 2017, 27, 3042-3048.e4. | 1.8 | 28 |
| 81 | Region-Specific and State-Dependent Astrocyte Ca ²⁺ Dynamics during the Sleep-Wake Cycle in Mice. <i>Journal of Neuroscience</i> , 2021, 41, 5440-5452. | 1.7 | 28 |
| 82 | The manipulation of neural and cellular activities by ectopic expression of melanopsin. <i>Neuroscience Research</i> , 2013, 75, 3-5. | 1.0 | 27 |
| 83 | Behavioral and electrophysiological evidence for a neuroprotective role of aquaporin-4 in the 5xFAD transgenic mice model. <i>Acta Neuropathologica Communications</i> , 2020, 8, 67. | 2.4 | 27 |
| 84 | Exacerbation of Epilepsy by Astrocyte Alkalization and Gap Junction Uncoupling. <i>Journal of Neuroscience</i> , 2021, 41, 2106-2118. | 1.7 | 27 |
| 85 | Organotypic Tissue Culture of Adult Rodent Retina Followed by Particle-Mediated Acute Gene Transfer In Vitro. <i>PLoS ONE</i> , 2010, 5, e12917. | 1.1 | 26 |
| 86 | Immune Modulation of the T Cell Response in Asthma through Wnt10b. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 584-593. | 1.4 | 25 |
| 87 | Identification of Optogenetically Activated Striatal Medium Spiny Neurons by Npas4 Expression. <i>PLoS ONE</i> , 2012, 7, e52783. | 1.1 | 25 |
| 88 | Aberrant astrocyte Ca ²⁺ signals exacerbate pathological alterations in an Alexander disease model. <i>Glia</i> , 2018, 66, 1053-1067. | 2.5 | 24 |
| 89 | Intracellular ATP levels in mouse cortical excitatory neurons varies with sleep-wake states. <i>Communications Biology</i> , 2020, 3, 491. | 2.0 | 24 |
| 90 | Striatonigral direct pathway activation is sufficient to induce repetitive behaviors. <i>Neuroscience Research</i> , 2018, 132, 53-57. | 1.0 | 23 |

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|-----|---|-----|-----------|
| 91 | Chronic social defeat stress impairs goal-directed behavior through dysregulation of ventral hippocampal activity in male mice. <i>Neuropsychopharmacology</i> , 2021, 46, 1606-1616. | 2.8 | 23 |
| 92 | Recurrent Episodes of Perceptual Alteration in Patients Treated With Antipsychotic Agents. <i>Journal of Clinical Psychopharmacology</i> , 2003, 23, 496-499. | 0.7 | 22 |
| 93 | Serotonin hormonally regulates lacrimal gland secretory function via the serotonin type 3a receptor. <i>Scientific Reports</i> , 2017, 7, 6965. | 1.6 | 22 |
| 94 | The balance between cathepsin C and cystatin F controls remyelination in the brain of <i>Plp1</i> -overexpressing mouse, a chronic demyelinating disease model. <i>Glia</i> , 2017, 65, 917-930. | 2.5 | 21 |
| 95 | Association of impaired neuronal migration with cognitive deficits in extremely preterm infants. <i>JCI Insight</i> , 2017, 2, . | 2.3 | 21 |
| 96 | Astrocyte-mediated infantile-onset leukoencephalopathy mouse model. <i>Glia</i> , 2017, 65, 150-168. | 2.5 | 20 |
| 97 | Maturation of Cerebellar Purkinje Cell Population Activity during Postnatal Refinement of Climbing Fiber Network. <i>Cell Reports</i> , 2017, 21, 2066-2073. | 2.9 | 19 |
| 98 | Loss of Adult 5-HT1A Autoreceptors Results in a Paradoxical Anxiogenic Response to Antidepressant Treatment. <i>Journal of Neuroscience</i> , 2019, 39, 1334-1346. | 1.7 | 19 |
| 99 | Termination of lesion-induced plasticity in the mouse barrel cortex in the absence of oligodendrocytes. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 40-49. | 1.0 | 18 |
| 100 | Correlative study using structural MRI and super-resolution microscopy to detect structural alterations induced by long-term optogenetic stimulation of striatal medium spiny neurons. <i>Neurochemistry International</i> , 2019, 125, 163-174. | 1.9 | 18 |
| 101 | Activation of ventral <i>CA1</i> hippocampal neurons projecting to the lateral septum during feeding. <i>Hippocampus</i> , 2021, 31, 294-304. | 0.9 | 18 |
| 102 | Enriched environment alleviates stress-induced dry-eye through the BDNF axis. <i>Scientific Reports</i> , 2019, 9, 3422. | 1.6 | 17 |
| 103 | Region- and Cell Type-Specific Facilitation of Synaptic Function at Destination Synapses Induced by Oligodendrocyte Depolarization. <i>Journal of Neuroscience</i> , 2019, 39, 4036-4050. | 1.7 | 17 |
| 104 | Reducing the dose of antipsychotic medications for those who had been treated with high-dose antipsychotic polypharmacy: an open study of dose reduction for chronic schizophrenia. <i>International Clinical Psychopharmacology</i> , 2003, 18, 323-329. | 0.9 | 15 |
| 105 | Compartmentalized Input-Output Organization of Lugaro Cells in the Cerebellar Cortex. <i>Neuroscience</i> , 2021, 462, 89-105. | 1.1 | 15 |
| 106 | Olig2 lineage cells preferentially differentiate into oligodendrocytes but their processes degenerate at the chronic demyelinating stage of proteolipid protein-overexpressing mouse. <i>Journal of Neuroscience Research</i> , 2013, 91, 178-186. | 1.3 | 13 |
| 107 | Subcellular calcium dynamics during juvenile development in mouse hippocampal astrocytes. <i>European Journal of Neuroscience</i> , 2016, 43, 923-932. | 1.2 | 13 |
| 108 | Opposing Ventral Striatal Medium Spiny Neuron Activities Shaped by Striatal Parvalbumin-Expressing Interneurons during Goal-Directed Behaviors. <i>Cell Reports</i> , 2020, 31, 107829. | 2.9 | 13 |

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|-----|---|-----|-----------|
| 109 | Differential pial and penetrating arterial responses examined by optogenetic activation of astrocytes and neurons. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2676-2689. | 2.4 | 13 |
| 110 | Optogenetic stimulus-triggered acquisition of seizure resistance. <i>Neurobiology of Disease</i> , 2022, 163, 105602. | 2.1 | 12 |
| 111 | Optogenetic activation of DRN 5-HT neurons induced active wakefulness, not quiet wakefulness. <i>Brain Research Bulletin</i> , 2021, 177, 129-142. | 1.4 | 11 |
| 112 | Chd8 mutation in oligodendrocytes alters microstructure and functional connectivity in the mouse brain. <i>Molecular Brain</i> , 2020, 13, 160. | 1.3 | 10 |
| 113 | Time-controllable Nkcc1 knockdown replicates reversible hearing loss in postnatal mice. <i>Scientific Reports</i> , 2017, 7, 13605. | 1.6 | 9 |
| 114 | Cathepsin C modulates myelin oligodendrocyte glycoprotein α -induced experimental autoimmune encephalomyelitis. <i>Journal of Neurochemistry</i> , 2019, 148, 413-425. | 2.1 | 9 |
| 115 | Nitric oxide α -mediated signal transmission in bladder vasculature underlies the therapeutic actions of PDE5 inhibitors in the rat. <i>British Journal of Pharmacology</i> , 2021, 178, 1073-1094. | 2.7 | 9 |
| 116 | Global knockdown of glutamate decarboxylase 67 elicits emotional abnormality in mice. <i>Molecular Brain</i> , 2021, 14, 5. | 1.3 | 9 |
| 117 | Oligodendrocytic Na $^{+}$ -K $^{+}$ -Cl $^{-}$ co-transporter 1 activity facilitates axonal conduction and restores plasticity in the adult mouse brain. <i>Nature Communications</i> , 2021, 12, 5146. | 5.8 | 9 |
| 118 | Sustained ErbB Activation Causes Demyelination and Hypomyelination by Driving Necroptosis of Mature Oligodendrocytes and Apoptosis of Oligodendrocyte Precursor Cells. <i>Journal of Neuroscience</i> , 2021, 41, 9872-9890. | 1.7 | 9 |
| 119 | Diffusion functional MRI reveals global brain network functional abnormalities driven by targeted local activity in a neuropsychiatric disease mouse model. <i>NeuroImage</i> , 2020, 223, 117318. | 2.1 | 8 |
| 120 | Flexible annotation atlas of the mouse brain: combining and dividing brain structures of the Allen Brain Atlas while maintaining anatomical hierarchy. <i>Scientific Reports</i> , 2021, 11, 6234. | 1.6 | 8 |
| 121 | Fluoro-Jade: New fluorescent marker of Rosenthal fibers. <i>Neuroscience Letters</i> , 2006, 407, 127-130. | 1.0 | 7 |
| 122 | Increased numbers of oligodendrocyte lineage cells in the optic nerves of cerebroside sulfotransferase knockout mice. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2011, 87, 415-424. | 1.6 | 7 |
| 123 | 5-HT3 antagonists decrease discounting rate without affecting sensitivity to reward magnitude in the delay discounting task in mice. <i>Psychopharmacology</i> , 2018, 235, 2619-2629. | 1.5 | 7 |
| 124 | Optical manipulation of local cerebral blood flow in the deep brain of freely moving mice. <i>Cell Reports</i> , 2021, 36, 109427. | 2.9 | 7 |
| 125 | Genetic and environmental factors in the development of Behcet's disease.. <i>Tohoku Journal of Experimental Medicine</i> , 1985, 145, 205-213. | 0.5 | 6 |
| 126 | Increased adenosine levels in mice expressing mutant glial fibrillary acidic protein in astrocytes result in failure of induction of LTP reversal (depotentialiation) in hippocampal CA1 neurons. <i>Brain Research</i> , 2014, 1578, 1-13. | 1.1 | 6 |

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|-----|--|-----|-----------|
| 127 | Identification of the extent of cortical spreading depression propagation by Npas4 mRNA expression. <i>Neuroscience Research</i> , 2015, 98, 1-8. | 1.0 | 6 |
| 128 | Visualization of myelinated fiber bundles orientation during brain slice preparation by reflection polarized light microscopy. <i>Microscopy Research and Technique</i> , 2018, 81, 1366-1373. | 1.2 | 6 |
| 129 | Microglial phospholipase D4 deficiency influences myelination during brain development. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2016, 92, 237-254. | 1.6 | 5 |
| 130 | App mice overall do not show impaired motivation, but cored amyloid plaques in the striatum are inversely correlated with motivation. <i>Neurochemistry International</i> , 2019, 129, 104470. | 1.9 | 5 |
| 131 | The Mlc1 Promoter Directs Müller Cell-specific Gene Expression in the Retina. <i>Translational Vision Science and Technology</i> , 2022, 11, 25. | 1.1 | 4 |
| 132 | Dysfunction of parvalbumin-expressing cells in the thalamic reticular nucleus induces cortical spike-and-wave discharges and an unconscious state. <i>Brain Communications</i> , 2022, 4, fca010. | 1.5 | 4 |
| 133 | Downregulation of Bdnf Expression in Adult Mice Causes Body Weight Gain. <i>Neurochemical Research</i> , 2022, 47, 2645-2655. | 1.6 | 4 |
| 134 | Observation and manipulation of glial cell function by virtue of sufficient probe expression. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 176. | 1.8 | 3 |
| 135 | A New Paradigm for Evaluating Avoidance/Escape Motivation. <i>International Journal of Neuropsychopharmacology</i> , 2017, 20, 593-601. | 1.0 | 3 |
| 136 | Mechanical regulation of oligodendrocyte morphology and maturation by the mechanosensor p130Cas. <i>Journal of Neurochemistry</i> , 2019, 150, 158-172. | 2.1 | 3 |
| 137 | Ninjin-1 yoeito, a traditional Japanese Kampo medicine, suppresses the onset of anhedonia induced by dysfunction in the striatal dopamine receptor type 2-expressing medium spiny neurons. <i>NeuroReport</i> , 2021, 32, 869-874. | 0.6 | 3 |
| 138 | increased body weight but not food-incentive motivation in wild-type mice. <i>Nagoya Journal of Medical Science</i> , 2017, 79, 351-362. | 0.6 | 3 |
| 139 | LDL-Receptor Related Protein Five Controls Bone Formation by Inhibiting Serotonin Synthesis in the Duodenum. <i>Obstetrical and Gynecological Survey</i> , 2009, 64, 240-242. | 0.2 | 2 |
| 140 | Hearing Loss Controlled by Optogenetic Stimulation of Nonexcitable Nonglial Cells in the Cochlea of the Inner Ear. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 300. | 1.4 | 2 |
| 141 | Ectopic positioning of Bergmann glia and impaired cerebellar wiring in Mlc1-overexpressing mice. <i>Journal of Neurochemistry</i> , 2018, 147, 344-360. | 2.1 | 2 |
| 142 | Translational approach to apathy-like behavior in mice: From the practical point of view. <i>Psychiatry and Clinical Neurosciences</i> , 2019, 73, 685-689. | 1.0 | 2 |
| 143 | Mice with reduced glutamate transporter GLT1 expression exhibit behaviors related to attention-deficit/hyperactivity disorder. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 161-165. | 1.0 | 2 |
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