

H Isaac Chen

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,824
citations

361413

20
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2592
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Matched Analysis of the Risk Assessment and Prediction Tool for Discharge Planning Following Single-Level Posterior Lumbar Fusion. <i>World Neurosurgery</i> , 2022, , . | 1.3 | 0 |
| 2 | Instituting an intrathecal baclofen pump program at an academic institution. <i>PM and R</i> , 2021, , . | 1.6 | 1 |
| 3 | MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. <i>Science Translational Medicine</i> , 2021, 13, eabf8629. | 12.4 | 68 |
| 4 | Restoring lost nigrostriatal fibers in Parkinson's disease based on clinically-inspired design criteria. <i>Brain Research Bulletin</i> , 2021, 175, 168-185. | 3.0 | 14 |
| 5 | Development of optically controlled "living electrodes" with long-projecting axon tracts for a synaptic brain-machine interface. <i>Science Advances</i> , 2021, 7, . | 10.3 | 40 |
| 6 | The Risk Assessment and Prediction Tool (RAPT) for Discharge Planning in a Posterior Lumbar Fusion Population. <i>Neurosurgery</i> , 2020, 86, E140-E146. | 1.1 | 13 |
| 7 | A Patient-Derived Glioblastoma Organoid Model and Biobank Recapitulates Inter- and Intra-tumoral Heterogeneity. <i>Cell</i> , 2020, 180, 188-204.e22. | 28.9 | 529 |
| 8 | Undiagnosed Obstructive Sleep Apnea as Predictor of 90-Day Readmission for Brain Tumor Patients. <i>World Neurosurgery</i> , 2020, 134, e979-e984. | 1.3 | 2 |
| 9 | Engineered microtissue as an anatomically inspired model of Parkinson's disease. <i>Current Opinion in Biomedical Engineering</i> , 2020, 14, 75-83. | 3.4 | 5 |
| 10 | A Primer on Human Brain Organoids for the Neurosurgeon. <i>Neurosurgery</i> , 2020, 87, 620-629. | 1.1 | 7 |
| 11 | A Porcine Model of Peripheral Nerve Injury Enabling Ultra-Long Regenerative Distances: Surgical Approach, Recovery Kinetics, and Clinical Relevance. <i>Neurosurgery</i> , 2020, 87, 833-846. | 1.1 | 21 |
| 12 | Modeling traumatic brain injury with human brain organoids. <i>Current Opinion in Biomedical Engineering</i> , 2020, 14, 52-58. | 3.4 | 15 |
| 13 | Tissue Engineering and Biomaterial Strategies to Elicit Endogenous Neuronal Replacement in the Brain. <i>Frontiers in Neurology</i> , 2020, 11, 344. | 2.4 | 17 |
| 14 | Innervation: the missing link for biofabricated tissues and organs. <i>Npj Regenerative Medicine</i> , 2020, 5, 11. | 5.2 | 56 |
| 15 | Predicting short-term outcomes following supratentorial tumor surgery. <i>Clinical Neurology and Neurosurgery</i> , 2020, 196, 106016. | 1.4 | 1 |
| 16 | Emerging regenerative medicine and tissue engineering strategies for Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 4. | 5.3 | 44 |
| 17 | Undiagnosed obstructive sleep apnea as a predictor of 30-day readmission for brain tumor patients. <i>Journal of Neurosurgery</i> , 2020, 133, 624-629. | 1.6 | 2 |
| 18 | Liver disease is an independent predictor of poor 30-day outcomes following surgery for degenerative disease of the cervical spine. <i>Spine Journal</i> , 2019, 19, 448-460. | 1.3 | 10 |

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|----|---|------|-----------|
| 19 | Applications of Human Brain Organoids to Clinical Problems. <i>Developmental Dynamics</i> , 2019, 248, 53-64. | 1.8 | 88 |
| 20 | Transplantation of Human Brain Organoids: Revisiting the Science and Ethics of Brain Chimeras. <i>Cell Stem Cell</i> , 2019, 25, 462-472. | 11.1 | 62 |
| 21 | Bundled Three-Dimensional Human Axon Tracts Derived from Brain Organoids. <i>IScience</i> , 2019, 21, 57-67. | 4.1 | 37 |
| 22 | Functional Cortical Axon Tracts Generated from Human Stem Cell-Derived Neurons. <i>Tissue Engineering - Part A</i> , 2019, 25, 736-745. | 3.1 | 10 |
| 23 | Patterns of opioid use in patients with trigeminal neuralgia undergoing neurosurgery. <i>Journal of Neurosurgery</i> , 2019, 131, 1805-1811. | 1.6 | 7 |
| 24 | Engineering advanced neural tissue constructs to mitigate acute cerebral inflammation after brain transplantation in rats. <i>Biomaterials</i> , 2019, 192, 510-522. | 11.4 | 15 |
| 25 | Challenges and demand for modeling disorders of consciousness following traumatic brain injury. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 98, 336-346. | 6.1 | 21 |
| 26 | Implications of anesthetic approach, spinal versus general, for the treatment of spinal disc herniation. <i>Journal of Neurosurgery: Spine</i> , 2019, 30, 78-82. | 1.7 | 4 |
| 27 | The Effect of Underlying Liver Disease on Perioperative Outcomes Following Craniotomy for Tumor: An American College of Surgeons National Quality Improvement Program Analysis. <i>World Neurosurgery</i> , 2018, 115, e85-e96. | 1.3 | 9 |
| 28 | Engineered Axonal Tracts as "Living Electrodes" for Synaptic-Based Modulation of Neural Circuitry. <i>Advanced Functional Materials</i> , 2018, 28, 1701183. | 14.9 | 36 |
| 29 | Tissue engineered nigrostriatal pathway for treatment of Parkinson's disease. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1702-1716. | 2.7 | 48 |
| 30 | Complications Predicting Perioperative Mortality in Patients Undergoing Elective Craniotomy: A Population-Based Study. <i>World Neurosurgery</i> , 2018, 118, e195-e205. | 1.3 | 10 |
| 31 | Electrophysiological Signature Reveals Laminar Structure of the Porcine Hippocampus. <i>ENeuro</i> , 2018, 5, ENEURO.0102-18.2018. | 1.9 | 17 |
| 32 | Multichannel activity propagation across an engineered axon network. <i>Journal of Neural Engineering</i> , 2017, 14, 026016. | 3.5 | 13 |
| 33 | The Evolution of Neuroprosthetic Interfaces. <i>Critical Reviews in Biomedical Engineering</i> , 2016, 44, 123-152. | 0.9 | 56 |
| 34 | Neural Substrate Expansion for the Restoration of Brain Function. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 1. | 2.5 | 85 |
| 35 | Lateral Transorbital Endoscopic Access to the Hippocampus, Amygdala, and Entorhinal Cortex: Initial Clinical Experience. <i>Orl</i> , 2015, 77, 321-332. | 1.1 | 32 |
| 36 | Rebuilding Brain Circuitry with Living Micro-Tissue Engineered Neural Networks. <i>Tissue Engineering - Part A</i> , 2015, 21, 2744-2756. | 3.1 | 58 |

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|----|--|-----|-----------|
| 37 | Restoring nervous system structure and function using tissue engineered living scaffolds. <i>Neural Regeneration Research</i> , 2015, 10, 679. | 3.0 | 64 |
| 38 | Transorbital endoscopic amygdalohippocampectomy: a feasibility investigation. <i>Journal of Neurosurgery</i> , 2014, 120, 1428-1436. | 1.6 | 55 |
| 39 | Harnessing Plasticity for the Treatment of Neurosurgical Disorders: An Overview. <i>World Neurosurgery</i> , 2014, 82, 648-659. | 1.3 | 17 |
| 40 | Endoscopic Microvascular Decompression: A Stepwise Operative Technique. <i>Orl</i> , 2012, 74, 293-298. | 1.1 | 21 |
| 41 | Detection of Cerebral Compromise With Multimodality Monitoring in Patients With Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2011, 69, 53-63. | 1.1 | 122 |
| 42 | Development of and psychometric testing for the Brief Pain Inventoryâ€œFacial in patients with facial pain syndromes. <i>Journal of Neurosurgery</i> , 2010, 113, 516-523. | 1.6 | 58 |
| 43 | Neural Stem Cells as Biological Minipumps: A Faster Route to Cell Therapy for the CNS?. <i>Current Stem Cell Research and Therapy</i> , 2007, 2, 13-22. | 1.3 | 24 |
| 44 | Optically-Controlled 'Living Electrodes' with Long-Projecting Axon Tracts for a Synaptic Brain-Machine Interface. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 2 |
| 45 | Three-dimensional Human Axon Tracts Derived From Cerebral Organoids. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 1 |