

# H Isaac Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11561072/publications.pdf>

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	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
2	Detection of Cerebral Compromise With Multimodality Monitoring in Patients With Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2011, 69, 53-63.	1.1	122
3	Applications of Human Brain Organoids to Clinical Problems. <i>Developmental Dynamics</i> , 2019, 248, 53-64.	1.8	88
4	Neural Substrate Expansion for the Restoration of Brain Function. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 1.	2.5	85
5	MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. <i>Science Translational Medicine</i> , 2021, 13, eabf8629.	12.4	68
6	Restoring nervous system structure and function using tissue engineered living scaffolds. <i>Neural Regeneration Research</i> , 2015, 10, 679.	3.0	64
7	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
8	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
9	Rebuilding Brain Circuitry with Living Micro-Tissue Engineered Neural Networks. <i>Tissue Engineering - Part A</i> , 2015, 21, 2744-2756.	3.1	58
10	The Evolution of Neuroprosthetic Interfaces. <i>Critical Reviews in Biomedical Engineering</i> , 2016, 44, 123-152.	0.9	56
11	Innervation: the missing link for biofabricated tissues and organs. <i>Npj Regenerative Medicine</i> , 2020, 5, 11.	5.2	56
12	Transorbital endoscopic amygdalohippocampectomy: a feasibility investigation. <i>Journal of Neurosurgery</i> , 2014, 120, 1428-1436.	1.6	55
13	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
14	Emerging regenerative medicine and tissue engineering strategies for Parkinsonâ€™s disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 4.	5.3	44
15	Development of optically controlled â€œliving electrodesâ€ with long-projecting axon tracts for a synaptic brain-machine interface. <i>Science Advances</i> , 2021, 7, .	10.3	40
16	Bundled Three-Dimensional Human Axon Tracts Derived from Brain Organoids. <i>iScience</i> , 2019, 21, 57-67.	4.1	37
17	Engineered Axonal Tracts as â€œLiving Electrodesâ€ for Synapticâ€Based Modulation of Neural Circuitry. <i>Advanced Functional Materials</i> , 2018, 28, 1701183.	14.9	36
18	Lateral Transorbital Endoscopic Access to the Hippocampus, Amygdala, and Entorhinal Cortex: Initial Clinical Experience. <i>Orl</i> , 2015, 77, 321-332.	1.1	32

#	ARTICLE	IF	CITATIONS
19	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
20	Endoscopic Microvascular Decompression: A Stepwise Operative Technique. <i>Orl</i> , 2012, 74, 293-298.	1.1	21
21	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
22	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
23	Harnessing Plasticity for the Treatment of Neurosurgical Disorders: An Overview. <i>World Neurosurgery</i> , 2014, 82, 648-659.	1.3	17
24	Tissue Engineering and Biomaterial Strategies to Elicit Endogenous Neuronal Replacement in the Brain. <i>Frontiers in Neurology</i> , 2020, 11, 344.	2.4	17
25	Electrophysiological Signature Reveals Laminar Structure of the Porcine Hippocampus. <i>ENeuro</i> , 2018, 5, ENEURO.0102-18.2018.	1.9	17
26	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
27	Modeling traumatic brain injury with human brain organoids. <i>Current Opinion in Biomedical Engineering</i> , 2020, 14, 52-58.	3.4	15
28	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
29	Multichannel activity propagation across an engineered axon network. <i>Journal of Neural Engineering</i> , 2017, 14, 026016.	3.5	13
30	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
31	Complications Predicting Perioperative Mortality in Patients Undergoing Elective Craniotomy: A Population-Based Study. <i>World Neurosurgery</i> , 2018, 118, e195-e205.	1.3	10
32	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
33	Functional Cortical Axon Tracts Generated from Human Stem Cell-Derived Neurons. <i>Tissue Engineering - Part A</i> , 2019, 25, 736-745.	3.1	10
34	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
35	Patterns of opioid use in patients with trigeminal neuralgia undergoing neurosurgery. <i>Journal of Neurosurgery</i> , 2019, 131, 1805-1811.	1.6	7
36	A Primer on Human Brain Organoids for the Neurosurgeon. <i>Neurosurgery</i> , 2020, 87, 620-629.	1.1	7

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37	Engineered microtissue as an anatomically inspired model of Parkinson's disease. Current Opinion in Biomedical Engineering, 2020, 14, 75-83.	3.4	5
38	Implications of anesthetic approach, spinal versus general, for the treatment of spinal disc herniation. Journal of Neurosurgery: Spine, 2019, 30, 78-82.	1.7	4
39	Undiagnosed Obstructive Sleep Apnea as Predictor of 90-Day Readmission for Brain Tumor Patients. World Neurosurgery, 2020, 134, e979-e984.	1.3	2
40	Optically-Controlled 'Living Electrodes' with Long-Projecting Axon Tracts for a Synaptic Brain-Machine Interface. SSRN Electronic Journal, 0, , .	0.4	2
41	Undiagnosed obstructive sleep apnea as a predictor of 30-day readmission for brain tumor patients. Journal of Neurosurgery, 2020, 133, 624-629.	1.6	2
42	Predicting short-term outcomes following supratentorial tumor surgery. Clinical Neurology and Neurosurgery, 2020, 196, 106016.	1.4	1
43	Instituting an intrathecal baclofen pump program at an academic institution. PM and R, 2021, , .	1.6	1
44	Three-dimensional Human Axon Tracts Derived From Cerebral Organoids. SSRN Electronic Journal, 0, , .	0.4	1
45	Matched Analysis of the Risk Assessment and Prediction Tool for Discharge Planning Following Single-Level Posterior Lumbar Fusion. World Neurosurgery, 2022, , .	1.3	0