Andrew L Ko

List of Publications by Year
in descending order

77 papers	4,331 citations	186265 28 h-index	155660 55 g-index
89 all docs	89 docs citations	89 times ranked	6356 citing authors

#	Article	IF	Citations
1	Conserved cell types with divergent features in human versus mouse cortex. Nature, 2019, 573, 61-68.	27.8	1,198
2	Comparative cellular analysis of motor cortex in human, marmoset and mouse. Nature, 2021, 598, 111-119.	27.8	361
3	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	27.8	316
4	Human neocortical expansion involves glutamatergic neuron diversification. Nature, 2021, 598, 151-158.	27.8	160
5	Sparse recurrent excitatory connectivity in the microcircuit of the adult mouse and human cortex. ELife, 2018, 7, .	6.0	142
6	h-Channels Contribute to Divergent Intrinsic Membrane Properties of Supragranular Pyramidal Neurons in Human versus Mouse Cerebral Cortex. Neuron, 2018, 100, 1194-1208.e5.	8.1	134
7	Effects of surgical targeting in laser interstitial thermal therapy for mesial temporal lobe epilepsy: A multicenter study of 234 patients. Epilepsia, 2019, 60, 1171-1183.	5.1	132
8	Long-term efficacy and safety of internal neurolysis for trigeminal neuralgia without neurovascular compression. Journal of Neurosurgery, 2015, 122, 1048-1057.	1.6	131
9	Local connectivity and synaptic dynamics in mouse and human neocortex. Science, 2022, 375, eabj5861.	12.6	124
10	Chronic electrocorticography for sensing movement intention and closed-loop deep brain stimulation with wearable sensors in an essential tremor patient. Journal of Neurosurgery, 2017, 127, 580-587.	1.6	105
11	Functional enhancer elements drive subclass-selective expression from mouse to primate neocortex. Cell Reports, 2021, 34, 108754.	6.4	88
12	Timing of cranioplasty: a 10.75-year single-center analysis of 754 patients. Journal of Neurosurgery, 2018, 128, 1648-1652.	1.6	84
13	A robust ex vivo experimental platform for molecular-genetic dissection of adult human neocortical cell types and circuits. Scientific Reports, 2018, 8, 8407.	3.3	77
14	Deep brain stimulation for psychiatric disorders: where we are now. Neurosurgical Focus, 2015, 38, E2.	2.3	73
15	Androgenic Suppression of ATP-binding Cassette Transporter A1 Expression in LNCaP Human Prostate Cancer Cells. Cancer Research, 2004, 64, 7682-7685.	0.9	71
16	Cortical Brainâ€“Computer Interface for Closed-Loop Deep Brain Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2180-2187.	4.9	66
17	Trigeminal neuralgia without neurovascular compression presents earlier than trigeminal neuralgia with neurovascular compression. Journal of Neurosurgery, 2015, 123, 1519-1527.	1.6	62
18	Quasi-periodic Fluctuations in Default Mode Network Electrophysiology. Journal of Neuroscience, 2011, 31, 11728-11732.	3.6	57

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19	Predictors of infection after 754 cranioplasty operations and the value of intraoperative cultures for cryopreserved bone flaps. Journal of Neurosurgery, 2016, 125, 766-770.	1.6	54
20	Signature morpho-electric, transcriptomic, and dendritic properties of human layer 5 neocortical pyramidal neurons. Neuron, 2021, 109, 2914-2927.e5.	8.1	54
21	Retrospective Review of Multilevel Spinal Fusion Combined With Spinal Cord Transection for Treatment of Kyphoscoliosis in Pediatric Myelomeningocele Patients. Spine, 2007, 32, 2493-2501.	2.0	45
22	Approaches to closed-loop deep brain stimulation for movement disorders. Neurosurgical Focus, 2018, 45, E2.	2.3	42
23	A machine-learning approach to volitional control of a closed-loop deep brain stimulation system. Journal of Neural Engineering, 2019, 16, 016004.	3.5	39
24	Directional patterns of cross frequency phase and amplitude coupling within the resting state mimic patterns of fMRI functional connectivity. NeuroImage, 2016, 128, 238-251.	4.2	38
25	Laser Interstitial Thermal Therapy for Epilepsy. Current Neurology and Neuroscience Reports, 2017, 17, 63.	4.2	34
26	Identifying Functional Networks Using Endogenous Connectivity in Gamma Band Electrocorticography. Brain Connectivity, 2013, 3, 491-502.	1.7	33
27	Asleep Deep Brain Stimulation Reduces Incidence of Intracranial Air during Electrode Implantation. Stereotactic and Functional Neurosurgery, 2018, 96, 83-90.	1.5	30
28	The Spectrum of Trigeminal Neuralgia Without Neurovascular Compression. Neurosurgery, 2019, 85, E553-E559.	1.1	27
29	Direct stimulation of somatosensory cortex results in slower reaction times compared to peripheral touch in humans. Scientific Reports, 2019, 9, 3292.	3.3	27
30	Intracerebral Abscess Associated With the Camino Intracranial Pressure Monitor: Case Report and Review of the Literature. Neurosurgery, 2012, 71, E193-E198.	1.1	23
31	Correlation of preoperative MRI with the long-term outcomes of dorsal root entry zone lesioning for brachial plexus avulsion pain. Journal of Neurosurgery, 2016, 124, 1470-1478.	1.6	20
32	Controlling our brains â€“ a case study on the implications of brain-computer interface-triggered deep brain stimulation for essential tremor. Brain-Computer Interfaces, 2016, 3, 165-170.	1.8	19
33	Is That the Same Person? Case Studies in Neurosurgery. AJOB Neuroscience, 2017, 8, 160-170.	1.1	19
34	Factors Affecting Stereotactic Accuracy in Image-Guided Deep Brain Stimulator Electrode Placement. Stereotactic and Functional Neurosurgery, 2017, 95, 315-324.	1.5	16
35	An Intracranial Aneurysm and Dural Arteriovenous Fistula in a Newborn. Pediatric Neurosurgery, 2010, 46, 450-456.	0.7	15
36	Risk of Complications with Simultaneous Cranioplasty and Placement of Ventriculoperitoneal Shunt. World Neurosurgery, 2017, 107, 830-833.	1.3	15

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37	Multicenter validation of automated trajectories for selective laser amygdalohippocampectomy. Epilepsia, 2019, 60, 1949-1959.	5.1	15
38	Transcriptional regulation of farnesyl pyrophosphate synthase by liver X receptors. Steroids, 2003, 68, 685-691.	1.8	14
39	Regional Patterns of Cortical Phase Synchrony in the Resting State. Brain Connectivity, 2016, 6, 470-481.	1.7	14
40	A Pilot Study on Data-Driven Adaptive Deep Brain Stimulation in Chronically Implanted Essential Tremor Patients. Frontiers in Human Neuroscience, 2020, 14, 541625.	2.0	14
41	Endoscopic repair of a rare basioccipital meningocele associated with recurrent meningitis. Journal of Neurosurgery: Pediatrics, 2010, 6, 188-192.	1.3	13
42	Safety and efficacy of carmustine (BCNU) wafers for metastatic brain tumors. , 2016, 7, 295.		13
43	Strategies to Mitigate Toxicities From Stereotactic Body Radiation Therapy for Spine Metastases. Neurosurgery, 2019, 85, 729-740.	1.1	12
44	Traumatic Fracture of a Polymethyl Methacrylate Patient-Specific Cranioplasty Implant. World Neurosurgery, 2014, 82, 536.e11-536.e13.	1.3	11
45	Human motor evoked potential responses following spinal cord transection: an in vivo study. Neurosurgical Focus, 2010, 29, E4.	2.3	9
46	Freehand placement of depth electrodes using electromagnetic frameless stereotactic guidance. Journal of Neurosurgery: Pediatrics, 2011, 8, 464-467.	1.3	8
47	Classifier-based closed-loop deep brain stimulation for essential tremor. , 2017, , .		8
48	Image-Guided, Asleep Deep Brain Stimulation. Progress in Neurological Surgery, 2018, 33, 94-106.	1.3	8
49	Safety and clinical response of intraventricular caspofungin for Scedosporium apiospermum complex central nervous system infection. Medical Mycology Case Reports, 2016, 13, 1-4.	1.3	7
50	Deep Neural Networks for Context-Dependent Deep Brain Stimulation. , 2019, , .		7
51	Concurrent Deep Brain Stimulation Reduces the Direct Cortical Stimulation Necessary for Motor Output. Movement Disorders, 2020, 35, 2348-2353.	3.9	7
52	Intraoperative Characterization of Subthalamic Nucleus-to-Cortex Evoked Potentials in Parkinsonâ€™s Disease Deep Brain Stimulation. Frontiers in Human Neuroscience, 2021, 15, 590251.	2.0	6
53	Higher risk of acute kidney injury and death with rhabdomyolysis in severely burned patients. Surgery, 2022, 171, 1412-1416.	1.9	6
54	Two patients with primary sellar leiomyomas, a rare entity. Journal of Clinical Neuroscience, 2013, 20, 897-901.	1.5	5

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55	Stereotactic Brain Biopsy Hemorrhage Risk Factors and Implications for Postoperative Care at a Single Institution: An Argument For Postoperative Imaging. World Neurosurgery, 2020, 144, e807-e812.	1.3	5
56	Effects of laser interstitial thermal therapy for mesial temporal lobe epilepsy on the structural connectome and its relationship to seizure freedom. Epilepsia, 2022, 63, 176-189.	5.1	5
57	In Reply: The Spectrum of Trigeminal Neuralgia Without Neurovascular Compression. Neurosurgery, 2019, 85, E800-E801.	1.1	4
58	Standard Free Versus Osteoplastic Craniotomy: Assessment of Complication Rates During Intracranial Electroencephalogram Electrode Placement for Seizure Localization. World Neurosurgery, 2019, 132, e599-e603.	1.3	4
59	Spontaneous Variation in Electrocorticographic Resting-State Connectivity. Brain Connectivity, 2019, 9, 488-499.	1.7	4
60	Closing the Loop With Cortical Sensing: The Development of Adaptive Deep Brain Stimulation for Essential Tremor Using the Activa PC+S. Frontiers in Neuroscience, 2021, 15, 749705.	2.8	4
61	Demonstration of a stable chronic electrocorticography-based brain-computer interface using a deep brain stimulator. , 2016, , .		3
62	Evaluating angioarchitectural characteristics of glial and metastatic brain tumors with conventional magnetic resonance imaging. Journal of Clinical Neuroscience, 2020, 76, 46-52.	1.5	3
63	Acute Postoperative Seizures and Engel Class Outcome at 1 Year Postselective Laser Amygdalohippocampal Ablation for Mesial Temporal Lobe Epilepsy. Neurosurgery, 2022, 91, 347-354.	1.1	3
64	Low-Grade Gliomas. , 2018, , 573-579.e1.		2
65	Commentary: Gamma Knife Radiosurgery for Multiple Sclerosis-Associated Trigeminal Neuralgia. Neurosurgery, 2019, 85, E941-E942.	1.1	2
66	Use of Dexmedetomidine for Postoperative Pain Management Following Spine Fusion Surgery in a Highly Opioid-Tolerant Patient. Journal of Pain and Palliative Care Pharmacotherapy, 2019, 33, 49-53.	0.8	2
67	Rebound effect in deep brain stimulation for essential tremor and symptom severity estimation from neural data. , 2020, 2020, 3621-3624.		2
68	Robustness of Beta Desynchronization from Chronically Implanted Cortical Electrodes on Multiple Time Scales. , 2021, 2021, 6041-6044.		2
69	Peripheral Nerve Surgery for Pain. , 2015, , 53-70.		1
70	Differentiation of epileptic regions from voluntary high-gamma activation via interictal cross-frequency windowed power-power correlation. Journal of Neurosurgery, 2020, 133, 43-53.	1.6	1
71	Motor BMIs Have Entered the Clinical Realm. , 2022, , 1-37.		1
72	Surgery for Temporal Lobe Epilepsy. , 2018, , 761-770.e2.		0

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73	Dorsal Root Entry Zone Lesioning for Brachial Plexus Avulsion Pain. , 2019, , 77-84.		0
74	In Reply to Letter to Editor Regarding â€œEconomic Impact of COVID-19 on a High-Volume Academic Neurosurgical Practiceâ€. World Neurosurgery, 2021, 149, 278.	1.3	0
75	Nonsurvival Distributions in Pediatric Burn Patients: A Comparative Study of Two National Databases. Journal of Burn Care and Research, 2021, 42, 1087-1092.	0.4	0
76	Radiofrequency Gangliolysis of the Trigeminal Nerve for Trigeminal Neuralgia. , 2016, , 75-83.		0
77	Brain Metastasis. , 2018, , 586-592.e1.		0