

Elizabeth C Tyler-Kabara

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

7,568
citations

87888

38
h-index

62596

80
g-index

122
all docs

122
docs citations

122
times ranked

6312
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance neuroprosthetic control by an individual with tetraplegia. <i>Lancet, The</i> , 2013, 381, 557-564.	13.7	1,550
2	Intracortical microstimulation of human somatosensory cortex. <i>Science Translational Medicine</i> , 2016, 8, 361ra141.	12.4	547
3	Neural constraints on learning. <i>Nature</i> , 2014, 512, 423-426.	27.8	535
4	Ten-dimensional anthropomorphic arm control in a human brain-machine interface: difficulties, solutions, and limitations. <i>Journal of Neural Engineering</i> , 2015, 12, 016011.	3.5	385
5	An Electrographic Brain Interface in an Individual with Tetraplegia. <i>PLoS ONE</i> , 2013, 8, e55344.	2.5	319
6	A brain-computer interface that evokes tactile sensations improves robotic arm control. <i>Science</i> , 2021, 372, 831-836.	12.6	245
7	Predictors of outcome in surgically managed patients with typical and atypical trigeminal neuralgia: comparison of results following microvascular decompression. <i>Journal of Neurosurgery</i> , 2002, 96, 527-531.	1.6	215
8	Endoscopic endonasal surgery for craniopharyngiomas: surgical outcome in 64 patients. <i>Journal of Neurosurgery</i> , 2013, 119, 1194-1207.	1.6	194
9	Risk factors for shunt malfunction in pediatric hydrocephalus: a multicenter prospective cohort study. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 17, 382-390.	1.3	188
10	Neural Interface Technology for Rehabilitation: Exploiting and Promoting Neuroplasticity. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2010, 21, 157-178.	1.3	175
11	Learning by neural reassociation. <i>Nature Neuroscience</i> , 2018, 21, 607-616.	14.8	170
12	New neural activity patterns emerge with long-term learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15210-15215.	7.1	145
13	Stabilization of a brain-computer interface via the alignment of low-dimensional spaces of neural activity. <i>Nature Biomedical Engineering</i> , 2020, 4, 672-685.	22.5	118
14	Endoscopic endonasal skull base surgery in the pediatric population. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 227-241.	1.3	117
15	A new Hydrocephalus Clinical Research Network protocol to reduce cerebrospinal fluid shunt infection. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 17, 391-396.	1.3	105
16	Human perception of electrical stimulation on the surface of somatosensory cortex. <i>PLoS ONE</i> , 2017, 12, e0176020.	2.5	101
17	Human motor cortical activity recorded with Micro-ECoG electrodes, during individual finger movements. , 2009, 2009, 586-9.		87
18	Histological evaluation of a chronically-implanted electrocorticographic electrode grid in a non-human primate. <i>Journal of Neural Engineering</i> , 2016, 13, 046019.	3.5	79

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19	Properties of a presynaptic metabotropic glutamate receptor in rat neostriatal slices. <i>Journal of Neurophysiology</i> , 1993, 69, 1236-1244.	1.8	77
20	Relationship between hyperglycemia and outcome in children with severe traumatic brain injury. <i>Pediatric Critical Care Medicine</i> , 2012, 13, 85-91.	0.5	77
21	Risk Factors for Mortality in Children with Abusive Head Trauma. <i>Journal of Pediatrics</i> , 2012, 161, 716-722.e1.	1.8	63
22	Validation of the Pittsburgh Infant Brain Injury Score for Abusive Head Trauma. <i>Pediatrics</i> , 2016, 138, .	2.1	60
23	Risk factors for cerebrospinal fluid leak in pediatric patients undergoing endoscopic endonasal skull base surgery. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2017, 93, 163-166.	1.0	59
24	Dysautonomia after pediatric brain injury. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 759-764.	2.1	56
25	Effectiveness of Pharmacological Therapies for Intracranial Hypertension in Children With Severe Traumatic Brain Injury—Results From an Automated Data Collection System Time-Synched to Drug Administration. <i>Pediatric Critical Care Medicine</i> , 2016, 17, 236-245.	0.5	56
26	Constraints on neural redundancy. <i>ELife</i> , 2018, 7, .	6.0	56
27	Collaborative Approach in the Development of High-Performance Brain-Computer Interfaces for a Neuroprosthetic Arm: Translation from Animal Models to Human Control. <i>Clinical and Translational Science</i> , 2014, 7, 52-59.	3.1	55
28	Congenital Brain and Spinal Cord Malformations and Their Associated Cutaneous Markers. <i>Pediatrics</i> , 2015, 136, e1105-e1119.	2.1	55
29	Increased CSF Concentrations of Myelin Basic Protein After TBI in Infants and Children: Absence of Significant Effect of Therapeutic Hypothermia. <i>Neurocritical Care</i> , 2012, 17, 401-407.	2.4	54
30	Slit-ventricle Syndrome Secondary to Shunt-induced Suture Ossification. <i>Neurosurgery</i> , 2001, 48, 764-770.	1.1	53
31	Single-unit activity, threshold crossings, and local field potentials in motor cortex differentially encode reach kinematics. <i>Journal of Neurophysiology</i> , 2015, 114, 1500-1512.	1.8	53
32	Motor cortical activity changes during neuroprosthetic-controlled object interaction. <i>Scientific Reports</i> , 2017, 7, 16947.	3.3	52
33	Stereotactic radiosurgery for residual neurocytoma. <i>Journal of Neurosurgery</i> , 2001, 95, 879-882.	1.6	51
34	Relationship of Intracranial Pressure and Cerebral Perfusion Pressure with Outcome in Young Children after Severe Traumatic Brain Injury. <i>Developmental Neuroscience</i> , 2010, 32, 413-9.	2.0	50
35	Metabotropic glutamate receptor modulation of synaptic transmission in corticostriatal co-cultures: Role of calcium influx. <i>Neuropharmacology</i> , 1995, 34, 939-952.	4.1	49
36	Brain tissue oxygen monitoring after severe traumatic brain injury in children: relationship to outcome and association with other clinical parameters. <i>Journal of Neurosurgery: Pediatrics</i> , 2012, 10, 383-391.	1.3	49

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37	Corridor surgery: the current paradigm for skull base surgery. <i>Child's Nervous System</i> , 2007, 23, 377-384.	1.1	47
38	Surgical anatomy of the dorsal scapular nerve. <i>Journal of Neurosurgery</i> , 2005, 102, 910-911.	1.6	45
39	In-vivo effects of intraocular and intracranial pressures on the lamina cribrosa microstructure. <i>PLoS ONE</i> , 2017, 12, e0188302.	2.5	44
40	Surgical anatomy of the axillary nerve within the quadrangular space. <i>Journal of Neurosurgery</i> , 2005, 102, 912-914.	1.6	42
41	Endoscopic Endonasal Surgery for Sinonasal and Skull Base Lesions in the Pediatric Population. <i>Otolaryngologic Clinics of North America</i> , 2015, 48, 79-99.	1.1	41
42	Synaptic Transmission and Modulation in The Neostriatum. <i>International Review of Neurobiology</i> , 1996, 39, 77-111.	2.0	40
43	Intracranial Hypertension and Cerebral Hypoperfusion in Children With Severe Traumatic Brain Injury: Thresholds and Burden in Accidental and Abusive Insults. <i>Pediatric Critical Care Medicine</i> , 2016, 17, 444-450.	0.5	40
44	Learning is shaped by abrupt changes in neural engagement. <i>Nature Neuroscience</i> , 2021, 24, 727-736.	14.8	39
45	Brain computer interface learning for systems based on electrocorticography and intracortical microelectrode arrays. <i>Frontiers in Integrative Neuroscience</i> , 2015, 9, 40.	2.1	38
46	Remapping cortical modulation for electrocorticographic brain-computer interfaces: a somatotopy-based approach in individuals with upper-limb paralysis. <i>Journal of Neural Engineering</i> , 2018, 15, 026021.	3.5	38
47	Development of a screening MRI for infants at risk for abusive head trauma. <i>Pediatric Radiology</i> , 2016, 46, 519-526.	2.0	37
48	Stereotactic Radiosurgery for Well-Circumscribed Fibrillary Grade II Astrocytomas: An Initial Experience. <i>Stereotactic and Functional Neurosurgery</i> , 2002, 79, 13-24.	1.5	35
49	Telemedicine Through the Use of Digital Cell Phone Technology in Pediatric Neurosurgery. <i>Neurosurgery</i> , 2010, 66, 999-1004.	1.1	34
50	Prevalence of tethered spinal cord in infants with VACTERL. <i>Journal of Neurosurgery: Pediatrics</i> , 2010, 6, 177-182.	1.3	33
51	Toward Synergy-Based Brain-Machine Interfaces. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 726-736.	3.2	33
52	Extracting Low-Dimensional Latent Structure from Time Series in the Presence of Delays. <i>Neural Computation</i> , 2015, 27, 1825-1856.	2.2	32
53	Decoding semantic information from human electrocorticographic (ECoG) signals. , 2011, 2011, 6294-8.		30
54	Intracortical Microstimulation as a Feedback Source for Brain-Computer Interface Users. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2017, , 43-54.	0.5	28

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55	Explant Analysis of Utah Electrode Arrays Implanted in Human Cortex for Brain-Computer-Interfaces. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 759711.	4.1	26
56	Flight simulation using a Brain-Computer Interface: A pilot, pilot study. <i>Experimental Neurology</i> , 2017, 287, 473-478.	4.1	25
57	Long-term impact of pediatric endoscopic endonasal skull base surgery on midface growth. <i>Journal of Neurosurgery: Pediatrics</i> , 2019, 23, 523-530.	1.3	24
58	Bilateral subthalamic nucleus deep brain stimulation for dopa-responsive dystonia in a 6-year-old child. <i>Journal of Neurosurgery: Pediatrics</i> , 2011, 7, 650-653.	1.3	23
59	Motor-related brain activity during action observation: a neural substrate for electrocorticographic brain-computer interfaces after spinal cord injury. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 17.	2.1	23
60	Factors Associated with Hemispheric Hypodensity after Subdural Hematoma following Abusive Head Trauma in Children. <i>Journal of Neurotrauma</i> , 2014, 31, 1625-1631.	3.4	23
61	The Burden of Ionizing Radiation Studies in Children with Ventricular Shunts. <i>Journal of Pediatrics</i> , 2017, 182, 210-216.e1.	1.8	23
62	Mapping in-vivo optic nerve head strains caused by intraocular and intracranial pressures. <i>Proceedings of SPIE</i> , 2017, 10067, .	0.8	22
63	Intraoperative neurophysiological monitoring during endoscopic endonasal surgery for pediatric skull base tumors. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 17, 147-155.	1.3	21
64	Endoscopic Endonasal Approach for Craniopharyngiomas with Intraventricular Extension: Case Series, Long-Term Outcomes, and Review. <i>World Neurosurgery</i> , 2020, 144, e447-e459.	1.3	21
65	Robust deep learning classification of adamantinomatous craniopharyngioma from limited preoperative radiographic images. <i>Scientific Reports</i> , 2020, 10, 16885.	3.3	19
66	Craniux: A LabVIEW-Based Modular Software Framework for Brain-Machine Interface Research. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-13.	1.7	18
67	Endoscopic endonasal surgery for benign fibroosseous lesions of the pediatric skull base. <i>Laryngoscope</i> , 2015, 125, 2199-2203.	2.0	18
68	A review of algorithms for molecular sequence comparison. <i>Journal of Biomedical Informatics</i> , 1991, 24, 72-96.	0.7	17
69	The impact of electrode characteristics on electrocorticography (ECoG)., 2011, 2011, 3083-6.		16
70	Sensorimotor experience and verb-category mapping in human sensory, motor and parietal neurons. <i>Cortex</i> , 2017, 92, 304-319.	2.4	14
71	Classification of Individual Finger Movements Using Intracortical Recordings in Human Motor Cortex. <i>Neurosurgery</i> , 2020, 87, 630-638.	1.1	14
72	Title is missing!. <i>Journal of Pediatric Orthopaedics</i> , 2001, 21, 594-599.	1.2	13

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73	Stable online control of an electrocorticographic brain-computer interface using a static decoder. , 2012, 2012, 1740-4.		13
74	Visual Outcomes after Endoscopic Endonasal Approach for Craniopharyngioma: The Pittsburgh Experience. Journal of Neurological Surgery, Part B: Skull Base, 2016, 77, 326-332.	0.8	13
75	Interplay between intraocular and intracranial pressure effects on the optic nerve head in vivo. Experimental Eye Research, 2021, 213, 108809.	2.6	13
76	Combined ventral and dorsal rhizotomies for dystonic and spastic extremities. Journal of Neurosurgery: Pediatrics, 2007, 107, 324-327.	1.3	12
77	Brainâ€“computer interface control along instructed paths. Journal of Neural Engineering, 2015, 12, 016015.	3.5	11
78	Neuroprosthetic control and tetraplegia â€“ Authors' reply. Lancet, The, 2013, 381, 1900-1901.	13.7	10
79	Endoscopic endonasal surgery for epidermoid and dermoid cysts: a 10-year experience. Journal of Neurosurgery, 2019, 130, 368-378.	1.6	10
80	Incidental Discovery of an Absent Right Common Carotid Artery Demonstrated by Digital Subtraction Angiography and Magnetic Resonance Angiography. Klinische Neuroradiologie, 2009, 19, 227-229.	0.9	9
81	Radiological and clinical predictors of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium. Journal of Neurosurgery: Pediatrics, 2019, 24, 520-527.	1.3	9
82	Additional vascular compression of the brachial plexus in a cadaver with a cervical rib: case illustration. Surgical and Radiologic Anatomy, 2006, 28, 112-113.	1.2	8
83	The Costs of Skull Base Surgery in the Pediatric Population. Journal of Neurological Surgery, Part B: Skull Base, 2015, 76, 039-042.	0.8	8
84	Unilateral occipital hyperhidrosis following Chiari I decompression: case report and a review of the literature. Child's Nervous System, 2006, 22, 737-739.	1.1	6
85	A fuzzy logic model for hand posture control using human cortical activity recorded by micro-ECog electrodes. , 2009, 2009, 4339-42.		6
86	Classification of hand posture from electrocorticographic signals recorded during varying force conditions. , 2011, 2011, 5782-5.		6
87	Hypothermia Decreases Cerebrospinal Fluid Asymmetric Dimethylarginine Levels in Children With Traumatic Brain Injury. Pediatric Critical Care Medicine, 2013, 14, 403-412.	0.5	6
88	The Incidence of Chiari Malformations in Patients with Isolated Sagittal Synostosis. Plastic and Reconstructive Surgery - Global Open, 2019, 7, e2090.	0.6	6
89	Endoscopic third ventriculostomy as adjunctive therapy in the treatment of low-pressure hydrocephalus in adults. , 2016, 7, 26.		6
90	Supraplaxode spinal cord transection in paraplegic patients with myelodysplasia and repetitive symptomatic tethered spinal cord. Journal of Neurosurgery: Pediatrics, 2005, 103, 36-39.	1.3	4

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91	Posttraumatic Cervical Nerve Root Avulsion with Epidural Hematoma. <i>World Neurosurgery</i> , 2015, 84, 1177.e9-1177.e11.	1.3	4
92	Posterior Communicating Artery Giving Rise to Shared-Origin Anterior Choroidal Artery: Case Illustration. <i>World Neurosurgery</i> , 2018, 109, 413-415.	1.3	4
93	Cervical Spine Injury From Unrecognized Craniocervical Instability in Severe Pierre Robin Sequence Associated With Skeletal Dysplasia. <i>Cleft Palate-Craniofacial Journal</i> , 2018, 55, 773-777.	0.9	4
94	The role of cell therapy for stroke. <i>Neurosurgical Focus</i> , 2002, 13, 1-6.	2.3	3
95	201â€fBrain-Machine Interface Control of a Robotic Arm for Object Grasping is Improved With Computer-Vision Based Shared Control. <i>Neurosurgery</i> , 2015, 62, 233.	1.1	3
96	Intermittent entrapment of choroid plexus in ventricular catheter. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2017, 9, 17-19.	0.3	3
97	A Pediatric Tumor Found Frequently in the Adult Population: A Case of Anaplastic Astroblastoma in an Elderly Patient and Review of the Literature. <i>Case Reports in Neurological Medicine</i> , 2017, 2017, 1-5.	0.4	3
98	MRI-guided laser interstitial thermal therapy using the Visualase system and Navigus frameless stereotaxy in an infant: technical case report. <i>Journal of Neurosurgery: Pediatrics</i> , 2021, , 1-4.	1.3	3
99	Unusual findings during abdominal placement of a ventriculoperitoneal shunt. <i>Journal of Neurosurgery: Pediatrics</i> , 2005, 102, 423-425.	1.3	2
100	Unusual Presentations of the Chiari I Malformation. , 2013, , 261-264.		2
101	Editorial: Sphenoidal encephaloceles. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 504.	1.3	2
102	Bilateral endoscopic optic nerve decompression in an infant with osteopetrosis. <i>Journal of AAPOS</i> , 2019, 23, 40-42.	0.3	2
103	847 Management of Atypical Trigeminal Neuralgia: Predictors of Outcome for Microvascular Decompression. <i>Neurosurgery</i> , 2000, 47, 542-542.	1.1	1
104	Unusual finding of the craniocervical junction. <i>Clinical Anatomy</i> , 2005, 18, 449-451.	2.7	1
105	Dysautonomia after pediatric brain injury. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 683-683.	2.1	1
106	Traumatic intracranial aneurysm after penetrating brain trauma. <i>BMJ Case Reports</i> , 2014, 2014, bcr2014206130-bcr2014206130.	0.5	1
107	Surgical management of clival chordomas in children. <i>Operative Techniques in Otolaryngology - Head and Neck Surgery</i> , 2019, 30, 63-72.	0.4	1
108	Extensive tumor calcification in response to pre-operative reductive chemotherapy in pediatric esthesioneuroblastoma: a case report. <i>Child's Nervous System</i> , 2020, 36, 2099-2102.	1.1	1

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109	Replacing Computed Tomography with "Rapid" Magnetic Resonance Imaging for Ventricular Shunt Imaging. <i>Pediatric Quality & Safety</i> , 2021, 6, e441.	0.8	1
110	Mechanisms underlying mGluR inhibition of synaptic transmission. <i>Neuropharmacology</i> , 1996, 35, A19.	4.1	0
111	448. <i>Critical Care Medicine</i> , 2013, 41, A108-A109.	0.9	0
112	Absent pedicles in campomelic dysplasia. <i>Child's Nervous System</i> , 2017, 33, 987-992.	1.1	0
113	Chordomas and Chondrosarcomas in Children. , 2018, , 385-391.		0
114	845 Management of Trigeminal Neuralgia: Predictors of Outcome for Microvascular Decompression. <i>Neurosurgery</i> , 2000, 47, 541-542.	1.1	0