

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	Learning is shaped by abrupt changes in neural engagement. <i>Nature Neuroscience</i> , 2021, 24, 727-736.	14.8	39
2	A brain-computer interface that evokes tactile sensations improves robotic arm control. <i>Science</i> , 2021, 372, 831-836.	12.6	245
3	Replacing Computed Tomography with "Rapid" Magnetic Resonance Imaging for Ventricular Shunt Imaging. <i>Pediatric Quality & Safety</i> , 2021, 6, e441.	0.8	1
4	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
5	Interplay between intraocular and intracranial pressure effects on the optic nerve head in vivo. <i>Experimental Eye Research</i> , 2021, 213, 108809.	2.6	13
6	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
7	Robust deep learning classification of adamantinomatous craniopharyngioma from limited preoperative radiographic images. <i>Scientific Reports</i> , 2020, 10, 16885.	3.3	19
8	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
9	Classification of Individual Finger Movements Using Intracortical Recordings in Human Motor Cortex. <i>Neurosurgery</i> , 2020, 87, 630-638.	1.1	14
10	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
11	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
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	Surgical management of clival chordomas in children. <i>Operative Techniques in Otolaryngology - Head and Neck Surgery</i> , 2019, 30, 63-72.	0.4	1
14	The Incidence of Chiari Malformations in Patients with Isolated Sagittal Synostosis. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2019, 7, e2090.	0.6	6
15	Bilateral endoscopic optic nerve decompression in an infant with osteopetrosis. <i>Journal of AAPOS</i> , 2019, 23, 40-42.	0.3	2
16	Endoscopic endonasal surgery for epidermoid and dermoid cysts: a 10-year experience. <i>Journal of Neurosurgery</i> , 2019, 130, 368-378.	1.6	10
17	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
18	Radiological and clinical predictors of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium. <i>Journal of Neurosurgery: Pediatrics</i> , 2019, 24, 520-527.	1.3	9

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19	Posterior Communicating Artery Giving Rise to Shared-Origin Anterior Choroidal Artery: Case Illustration. <i>World Neurosurgery</i> , 2018, 109, 413-415.	1.3	4
20	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
21	Learning by neural reassociation. <i>Nature Neuroscience</i> , 2018, 21, 607-616.	14.8	170
22	Chordomas and Chondrosarcomas in Children. , 2018, , 385-391.		0
23	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
24	Constraints on neural redundancy. <i>ELife</i> , 2018, 7, .	6.0	56
25	Flight simulation using a Brain-Computer Interface: A pilot, pilot study. <i>Experimental Neurology</i> , 2017, 287, 473-478.	4.1	25
26	The Burden of Ionizing Radiation Studies in Children with Ventricular Shunts. <i>Journal of Pediatrics</i> , 2017, 182, 210-216.e1.	1.8	23
27	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
28	Sensorimotor experience and verb-category mapping in human sensory, motor and parietal neurons. <i>Cortex</i> , 2017, 92, 304-319.	2.4	14
29	Absent pedicles in campomelic dysplasia. <i>Child's Nervous System</i> , 2017, 33, 987-992.	1.1	0
30	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
31	Intermittent entrapment of choroid plexus in ventricular catheter. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2017, 9, 17-19.	0.3	3
32	Motor cortical activity changes during neuroprosthetic-controlled object interaction. <i>Scientific Reports</i> , 2017, 7, 16947.	3.3	52
33	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
34	Mapping in-vivo optic nerve head strains caused by intraocular and intracranial pressures. <i>Proceedings of SPIE</i> , 2017, 10067, .	0.8	22
35	Human perception of electrical stimulation on the surface of somatosensory cortex. <i>PLoS ONE</i> , 2017, 12, e0176020.	2.5	101
36	In-vivo effects of intraocular and intracranial pressures on the lamina cribrosa microstructure. <i>PLoS ONE</i> , 2017, 12, e0188302.	2.5	44

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37	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
38	Validation of the Pittsburgh Infant Brain Injury Score for Abusive Head Trauma. <i>Pediatrics</i> , 2016, 138, .	2.1	60
39	Visual Outcomes after Endoscopic Endonasal Approach for Craniopharyngioma: The Pittsburgh Experience. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2016, 77, 326-332.	0.8	13
40	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
41	Intracortical microstimulation of human somatosensory cortex. <i>Science Translational Medicine</i> , 2016, 8, 361ra141.	12.4	547
42	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
43	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
44	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
45	Development of a screening MRI for infants at risk for abusive head trauma. <i>Pediatric Radiology</i> , 2016, 46, 519-526.	2.0	37
46	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
47	Endoscopic third ventriculostomy as adjunctive therapy in the treatment of low-pressure hydrocephalus in adults. , 2016, 7, 26.		6
48	Endoscopic endonasal surgery for benign fibroosseous lesions of the pediatric skull base. <i>Laryngoscope</i> , 2015, 125, 2199-2203.	2.0	18
49	201—Brain-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
50	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
51	Brain—computer interface control along instructed paths. <i>Journal of Neural Engineering</i> , 2015, 12, 016015.	3.5	11
52	The Costs of Skull Base Surgery in the Pediatric Population. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2015, 76, 039-042.	0.8	8
53	Posttraumatic Cervical Nerve Root Avulsion with Epidural Hematoma. <i>World Neurosurgery</i> , 2015, 84, 1177.e9-1177.e11.	1.3	4
54	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

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55	Extracting Low-Dimensional Latent Structure from Time Series in the Presence of Delays. <i>Neural Computation</i> , 2015, 27, 1825-1856.	2.2	32
56	Congenital Brain and Spinal Cord Malformations and Their Associated Cutaneous Markers. <i>Pediatrics</i> , 2015, 136, e1105-e1119.	2.1	55
57	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
58	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
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	Traumatic intracranial aneurysm after penetrating brain trauma. <i>BMJ Case Reports</i> , 2014, 2014, bcr2014206130-bcr2014206130.	0.5	1
61	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
62	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
63	Neural constraints on learning. <i>Nature</i> , 2014, 512, 423-426.	27.8	535
64	Unusual Presentations of the Chiari I Malformation. , 2013, , 261-264.		2
65	Neuroprosthetic control and tetraplegia – Authors'reply. <i>Lancet, The</i> , 2013, 381, 1900-1901.	13.7	10
66	High-performance neuroprosthetic control by an individual with tetraplegia. <i>Lancet, The</i> , 2013, 381, 557-564.	13.7	1,550
67	Endoscopic endonasal surgery for craniopharyngiomas: surgical outcome in 64 patients. <i>Journal of Neurosurgery</i> , 2013, 119, 1194-1207.	1.6	194
68	Editorial: Sphenoidal encephaloceles. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 504.	1.3	2
69	Endoscopic endonasal skull base surgery in the pediatric population. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 227-241.	1.3	117
70	Hypothermia Decreases Cerebrospinal Fluid Asymmetric Dimethylarginine Levels in Children With Traumatic Brain Injury. <i>Pediatric Critical Care Medicine</i> , 2013, 14, 403-412.	0.5	6
71	448. <i>Critical Care Medicine</i> , 2013, 41, A108-A109.	0.9	0
72	An Electrocorticographic Brain Interface in an Individual with Tetraplegia. <i>PLoS ONE</i> , 2013, 8, e55344.	2.5	319

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73	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
74	Stable online control of an electrocorticographic brain-computer interface using a static decoder. , 2012, 2012, 1740-4.		13
75	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
76	Risk Factors for Mortality in Children with Abusive Head Trauma. <i>Journal of Pediatrics</i> , 2012, 161, 716-722.e1.	1.8	63
77	Dysautonomia after pediatric brain injury. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 759-764.	2.1	56
78	Dysautonomia after pediatric brain injury. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 683-683.	2.1	1
79	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
80	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
81	Toward Synergy-Based Brain-Machine Interfaces. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 726-736.	3.2	33
82	Classification of hand posture from electrocorticographic signals recorded during varying force conditions. , 2011, 2011, 5782-5.		6
83	Decoding semantic information from human electrocorticographic (ECoG) signals. , 2011, 2011, 6294-8.		30
84	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
85	The impact of electrode characteristics on electrocorticography (ECoG). , 2011, 2011, 3083-6.		16
86	Telemedicine Through the Use of Digital Cell Phone Technology in Pediatric Neurosurgery. <i>Neurosurgery</i> , 2010, 66, 999-1004.	1.1	34
87	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
88	Prevalence of tethered spinal cord in infants with VACTERL. <i>Journal of Neurosurgery: Pediatrics</i> , 2010, 6, 177-182.	1.3	33
89	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
90	A fuzzy logic model for hand posture control using human cortical activity recorded by micro-ECoG electrodes. , 2009, 2009, 4339-42.		6

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91	Incidental Discovery of an Absent Right Common Carotid Artery Demonstrated by Digital Subtraction Angiography and Magnetic Resonance Angiography. <i>Klinische Neuroradiologie</i> , 2009, 19, 227-229.	0.9	9
92	Human motor cortical activity recorded with Micro-ECoG electrodes, during individual finger movements. , 2009, 2009, 586-9.		87
93	Combined ventral and dorsal rhizotomies for dystonic and spastic extremities. <i>Journal of Neurosurgery: Pediatrics</i> , 2007, 107, 324-327.	1.3	12
94	Corridor surgery: the current paradigm for skull base surgery. <i>Child's Nervous System</i> , 2007, 23, 377-384.	1.1	47
95	Unilateral occipital hyperhidrosis following Chiari I decompression: case report and a review of the literature. <i>Child's Nervous System</i> , 2006, 22, 737-739.	1.1	6
96	Additional vascular compression of the brachial plexus in a cadaver with a cervical rib: case illustration. <i>Surgical and Radiologic Anatomy</i> , 2006, 28, 112-113.	1.2	8
97	Unusual finding of the craniocervical junction. <i>Clinical Anatomy</i> , 2005, 18, 449-451.	2.7	1
98	Unusual findings during abdominal placement of a ventriculoperitoneal shunt. <i>Journal of Neurosurgery: Pediatrics</i> , 2005, 102, 423-425.	1.3	2
99	Suprplacode spinal cord transection in paraplegic patients with myelodysplasia and repetitive symptomatic tethered spinal cord. <i>Journal of Neurosurgery: Pediatrics</i> , 2005, 103, 36-39.	1.3	4
100	Surgical anatomy of the dorsal scapular nerve. <i>Journal of Neurosurgery</i> , 2005, 102, 910-911.	1.6	45
101	Surgical anatomy of the axillary nerve within the quadrangular space. <i>Journal of Neurosurgery</i> , 2005, 102, 912-914.	1.6	42
102	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
103	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
104	The role of cell therapy for stroke. <i>Neurosurgical Focus</i> , 2002, 13, 1-6.	2.3	3
105	Slit-ventricle Syndrome Secondary to Shunt-induced Suture Ossification. <i>Neurosurgery</i> , 2001, 48, 764-770.	1.1	53
106	Title is missing!. <i>Journal of Pediatric Orthopaedics</i> , 2001, 21, 594-599.	1.2	13
107	Stereotactic radiosurgery for residual neurocytoma. <i>Journal of Neurosurgery</i> , 2001, 95, 879-882.	1.6	51
108	847 Management of Atypical Trigeminal Neuralgia: Predictors of Outcome for Microvascular Decompression. <i>Neurosurgery</i> , 2000, 47, 542-542.	1.1	1

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109	845 Management of Trigeminal Neuralgia: Predictors of Outcome for Microvascular Decompression. <i>Neurosurgery</i> , 2000, 47, 541-542.	1.1	0
110	Mechanisms underlying mGluR inhibition of synaptic transmission. <i>Neuropharmacology</i> , 1996, 35, A19.	4.1	0
111	Synaptic Transmission and Modulation in The Neostriatum. <i>International Review of Neurobiology</i> , 1996, 39, 77-111.	2.0	40
112	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
113	Properties of a presynaptic metabotropic glutamate receptor in rat neostriatal slices. <i>Journal of Neurophysiology</i> , 1993, 69, 1236-1244.	1.8	77
114	A review of algorithms for molecular sequence comparison. <i>Journal of Biomedical Informatics</i> , 1991, 24, 72-96.	0.7	17