

Patricia A Shewokis

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,692
citations

257450

24
h-index

223800

46
g-index

105
all docs

105
docs citations

105
times ranked

2460
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical brain monitoring for operator training and mental workload assessment. <i>NeuroImage</i> , 2012, 59, 36-47.	4.2	526
2	Continuous monitoring of brain dynamics with functional near infrared spectroscopy as a tool for neuroergonomic research: empirical examples and a technological development. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 871.	2.0	211
3	Using MazeSuite and Functional Near Infrared Spectroscopy to Study Learning in Spatial Navigation. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	153
4	Measuring speakerâ€™listener neural coupling with functional near infrared spectroscopy. <i>Scientific Reports</i> , 2017, 7, 43293.	3.3	135
5	Sliding-window motion artifact rejection for Functional Near-Infrared Spectroscopy. , 2010, 2010, 6567-70.		124
6	Multisubject â€œLearningâ€ for Mental Workload Classification Using Concurrent EEG, fNIRS, and Physiological Measures. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 389.	2.0	78
7	THE EVOLUTION OF FIELD DEPLOYABLE fNIR SPECTROSCOPY FROM BENCH TO CLINICAL SETTINGS. <i>Journal of Innovative Optical Health Sciences</i> , 2011, 04, 239-250.	1.0	55
8	Whipple-ABACUS, a simple, validated risk score for 30-day mortality after pancreaticoduodenectomy developed using the ACS-NSQIP database. <i>Surgery</i> , 2016, 160, 1279-1287.	1.9	55
9	Cognitive Workload and Learning Assessment During the Implementation of a Next-Generation Air Traffic Control Technology Using Functional Near-Infrared Spectroscopy. <i>IEEE Transactions on Human-Machine Systems</i> , 2014, 44, 429-440.	3.5	53
10	Do laparoscopic skills transfer to robotic surgery?. <i>Journal of Surgical Research</i> , 2014, 187, 53-58.	1.6	52
11	Functional near-infrared spectroscopy-based correlates of prefrontal cortical dynamics during a cognitive-motor executive adaptation task. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 277.	2.0	45
12	Tactile Feedback of Object Slip Facilitates Virtual Object Manipulation. <i>IEEE Transactions on Haptics</i> , 2015, 8, 454-466.	2.7	44
13	Assessment of Cognitive Neural Correlates for a Functional Near Infrared-Based Brain Computer Interface System. <i>Lecture Notes in Computer Science</i> , 2009, , 699-708.	1.3	41
14	Test-Retest Reliability of Isokinetic Dynamometry for the Assessment of Spasticity of the Knee Flexors and Knee Extensors in Children With Cerebral Palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 697-702.	0.9	40
15	Gait initiation in children with cerebral palsy. <i>Gait and Posture</i> , 2007, 26, 301-308.	1.4	39
16	Assessment of wavelet analysis of gait in children with typical development and cerebral palsy. <i>Journal of Biomechanics</i> , 2005, 38, 1351-1357.	2.1	38
17	Mental workload classification with concurrent electroencephalography and functional near-infrared spectroscopy. <i>Brain-Computer Interfaces</i> , 2017, 4, 175-185.	1.8	37
18	Acquisition, retention and transfer of simulated laparoscopic tasks using fNIR and a contextual interference paradigm. <i>American Journal of Surgery</i> , 2017, 213, 336-345.	1.8	36

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19	Optical Brain Imaging to Enhance UAV Operator Training, Evaluation, and Interface Development. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 423-443.	3.4	35
20	An exploration of grip force regulation with a low-impedance myoelectric prosthesis featuring referred haptic feedback. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 104.	4.6	35
21	A time-frequency based electromyographic analysis technique for use in cerebral palsy. Gait and Posture, 2007, 26, 420-427.	1.4	34
22	Filling the Gap: Simulation-based Crisis Resource Management Training for Emergency Medicine Residents. Western Journal of Emergency Medicine, 2018, 19, 205-210.	1.1	34
23	Hemodynamic Response to Repeated Noxious Cold Pressor Tests Measured by Functional Near Infrared Spectroscopy on Forehead. Annals of Biomedical Engineering, 2013, 41, 223-237.	2.5	31
24	Understanding the role of haptic feedback in a teleoperated/prosthetic grasp and lift task. , 2013, , .		30
25	<i>Clinicopathological Features and Management of Appendiceal Mucoceles: A Systematic Review</i>. American Surgeon, 2018, 84, 273-281.	0.8	29
26	A Test of Retroactive Inhibition as an Explanation of Contextual Interference. Research Quarterly for Exercise and Sport, 1998, 69, 70-74.	1.4	26
27	Immediate effect of percutaneous intramuscular stimulation during gait in children with cerebral palsy: a feasibility study. Developmental Medicine and Child Neurology, 2005, 47, 684.	2.1	25
28	Is the Contextual Interference Effect Generalizable to Computer Games?. Perceptual and Motor Skills, 1997, 84, 3-15.	1.3	23
29	Tangram solved? Prefrontal cortex activation analysis during geometric problem solving. , 2012, 2012, 4724-7.		23
30	Mental workload and motor performance dynamics during practice of reaching movements under various levels of task difficulty. Neuroscience, 2017, 360, 166-179.	2.3	23
31	A P300-based EEG-BCI for spatial navigation control. , 2012, 2012, 3841-4.		21
32	UAV Operators Workload Assessment by Optical Brain Imaging Technology (fNIR). , 2015, , 2475-2500.		21
33	Toward improved sensorimotor integration and learning using upper-limb prosthetic devices. , 2010, 2010, 5077-80.		20
34	An optical brain computer interface for environmental control. , 2011, 2011, 6327-30.		20
35	The Paradox of the Contented Working Woman in Intercollegiate Athletics Administration. Research Quarterly for Exercise and Sport, 1995, 66, 73-79.	1.4	18
36	Towards a Hybrid P300-Based BCI Using Simultaneous fNIR and EEG. Lecture Notes in Computer Science, 2013, , 335-344.	1.3	18

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37	Motivation in computer-assisted instruction. <i>Laryngoscope</i> , 2016, 126, S5-S13.	2.0	18
38	Time-frequency changes in electromyographic signals after hamstring lengthening surgery in children with cerebral palsy. <i>Journal of Biomechanics</i> , 2007, 40, 2738-2743.	2.1	16
39	Low dietary magnesium intake alters vitamin D-parathyroid hormone relationship in adults who are overweight or obese. <i>Nutrition Research</i> , 2019, 69, 82-93.	2.9	16
40	Diverse changes in microglia morphology and axonal pathology during the course of 1 year after mild traumatic brain injury in pigs. <i>Brain Pathology</i> , 2021, 31, e12953.	4.1	16
41	Brain Activation in the Prefrontal Cortex during Motor and Cognitive Tasks in Adults. <i>Journal of Behavioral and Brain Science</i> , 2016, 06, 463-474.	0.5	16
42	Using Statistical Power Analysis in Sport Management Research. <i>Journal of Sport Management</i> , 1999, 13, 139-147.	1.4	14
43	Short-Term Effects of Meditation on Sustained Attention as Measured by fNIRS. <i>Brain Sciences</i> , 2020, 10, 608.	2.3	14
44	Roles of Reflex Activity and Co-contraction During Assessments of Spasticity of the Knee Flexor and Knee Extensor Muscles in Children With Cerebral Palsy and Different Functional Levels. <i>Physical Therapy</i> , 2008, 88, 1124-1134.	2.4	13
45	Psychosocial Factors and Health Perceptions in Parents and Children Who Are Overweight or Obese. <i>Obesity</i> , 2010, 18, 1558-1565.	3.0	13
46	Brain-in-the-Loop Learning Using fNIR and Simulated Virtual Reality Surgical Tasks: Hemodynamic and Behavioral Effects. <i>Lecture Notes in Computer Science</i> , 2015, , 324-335.	1.3	13
47	Neural Adaptation to a Working Memory Task: A Concurrent EEG-fNIRS Study. <i>Lecture Notes in Computer Science</i> , 2015, , 268-280.	1.3	13
48	Memory Consolidation and Contextual Interference Effects with Computer Games. <i>Perceptual and Motor Skills</i> , 2003, 97, 581-589.	1.3	12
49	Brain in the Loop: Assessing Learning Using fNIR in Cognitive and Motor Tasks. <i>Lecture Notes in Computer Science</i> , 2011, , 240-249.	1.3	12
50	Estimation of Cognitive Workload during Simulated Air Traffic Control Using Optical Brain Imaging Sensors. <i>Lecture Notes in Computer Science</i> , 2011, , 549-558.	1.3	12
51	The effect of combined magnesium and vitamin D supplementation on vitamin D status, systemic inflammation, and blood pressure: A randomized double-blinded controlled trial. <i>Nutrition</i> , 2022, 99-100, 111674.	2.4	12
52	Evaluation of fNIRS signal components elicited by cognitive and hypercapnic stimuli. <i>Scientific Reports</i> , 2021, 11, 23457.	3.3	12
53	Co-contraction during passive movements of the knee joint in children with cerebral palsy. <i>Clinical Biomechanics</i> , 2007, 22, 1045-1048.	1.2	11
54	Bridging Brain and Educational Sciences: An Optical Brain Imaging Study of Visuospatial Reasoning. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 29, 300-309.	0.5	10

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55	Relationships of hip abductor strength, neuromuscular control, and hip width to femoral length ratio with peak hip adduction angle in healthy female runners. <i>Journal of Sports Sciences</i> , 2020, 38, 2291-2297.	2.0	10
56	Assessment of Prefrontal Cortex Activity in Amyotrophic Lateral Sclerosis Patients with Functional Near Infrared Spectroscopy. <i>Journal of Neuroscience and Neuroengineering</i> , 2014, 3, 41-51.	0.2	10
57	Factors influencing rearfoot kinematics during a rapid lateral braking movement. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 586-594.	0.4	9
58	MindTactics: A Brain Computer Interface gaming platform. , 2010, , .		9
59	Using Mean Absolute Relative Phase, Deviation Phase and Point-Estimation Relative Phase to Measure Postural Coordination in a Serial Reaching Task. <i>Journal of Sports Science and Medicine</i> , 2016, 15, 131-41.	1.6	9
60	Examination of Spasticity of the Knee Flexors and Knee Extensors Using Isokinetic Dynamometry With Electromyography and Clinical Scales in Children With Spinal Cord Injury. <i>Journal of Spinal Cord Medicine</i> , 2008, 31, 208-214.	1.4	8
61	Reconstructing surface EMG from scalp EEG during myoelectric control of a closed looped prosthetic device. , 2013, 2013, 5602-5.		8
62	Use of simulation as a needs assessment to develop a focused team leader training curriculum for resuscitation teams. <i>Advances in Simulation</i> , 2020, 5, 6.	2.3	8
63	Applications of Functional Near Infrared Imaging: Case Study on UAV Ground Controller. <i>Lecture Notes in Computer Science</i> , 2011, , 608-617.	1.3	8
64	Appropriate summary KR for learning timing tasks under conditions of high and low contextual interference. <i>Acta Psychologica</i> , 1993, 83, 1-12.	1.5	7
65	Hemodynamic correlates of visuomotor motor adaptation by functional Near Infrared Spectroscopy. , 2010, 2010, 2918-21.		7
66	Changes in motor performance and mental workload during practice of reaching movements: a team dynamics perspective. <i>Experimental Brain Research</i> , 2018, 236, 433-451.	1.5	7
67	A rodent brain-machine interface paradigm to study the impact of paraplegia on BMI performance. <i>Journal of Neuroscience Methods</i> , 2018, 306, 103-114.	2.5	7
68	Clinicopathological Features and Management of Appendiceal Mucoceles: A Systematic Review. <i>American Surgeon</i> , 2018, 84, 273-281.	0.8	7
69	Effects of bandwidth knowledge of results on the performance and learning of a shoulder internal rotation isokinetic strength task. <i>Isokinetics and Exercise Science</i> , 2000, 8, 129-139.	0.4	6
70	Changes in standing postural control during acquisition of a sequential reaching task. <i>Gait and Posture</i> , 2010, 31, 265-271.	1.4	6
71	Motor Performance, Mental Workload and Self-Efficacy Dynamics during Learning of Reaching Movements throughout Multiple Practice Sessions. <i>Neuroscience</i> , 2019, 423, 232-248.	2.3	6
72	Human Performance Assessment Study in Aviation Using Functional Near Infrared Spectroscopy. <i>Lecture Notes in Computer Science</i> , 2013, , 433-442.	1.3	6

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73	Individual differences in skill acquisition and transfer assessed by dual task training performance and brain activity. <i>Brain Informatics</i> , 2022, 9, 9.	3.0	6
74	Detection of attention shift for asynchronous P300-based BCI. , 2012, 2012, 3850-3.		5
75	Examining Mental Workload in a Spatial Navigation Transfer Game via Functional near Infrared Spectroscopy. <i>Brain Sciences</i> , 2021, 11, 45.	2.3	5
76	Evaluation of Cerebral Tissue Oximeters Using Multilayered Dynamic Head Models. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	4.7	5
77	Brain Activity of Young and Adult Hebrew Speakers during Lexical Decision Task: fNIR Application to Language. <i>Lecture Notes in Computer Science</i> , 2011, , 231-239.	1.3	5
78	Brain in the Loop Learning Using Functional Near Infrared Spectroscopy. <i>Lecture Notes in Computer Science</i> , 2013, , 381-389.	1.3	5
79	Gastrocnemius-Soleus Muscle Tendon Unit Changes Over the First 12 Weeks of Adjusted Age in Infants Born Preterm. <i>Physical Therapy</i> , 2009, 89, 136-148.	2.4	4
80	Sedentary behavior time as a predictor of hemoglobin A1c among adults, 40 to 59 years of age, living in the United States: National Health and Nutrition Examination Survey 2003 to 2004 and 2013 to 2014. <i>Nutrition and Health</i> , 2019, 25, 275-279.	1.5	4
81	Cognitive Workload Impacts of Simulated Visibility Changes During Search and Surveillance Tasks Quantified by Functional Near Infrared Spectroscopy. <i>IEEE Transactions on Human-Machine Systems</i> , 2022, 52, 658-667.	3.5	4
82	The Impact of Fidget Spinners on Fine Motor Skills in Individuals with and without ADHD: An Exploratory Analysis. <i>Journal of Behavioral and Brain Science</i> , 2022, 12, 82-101.	0.5	4
83	Muscle Tendon Unit Comparisons Between Infants Born Preterm and Infants Born Full Term: A Pilot Study. <i>Pediatric Physical Therapy</i> , 2007, 19, 309-314.	0.6	3
84	EEG band powers for characterizing user engagement in P300-BCI. , 2013, , .		3
85	Construct validity of a novel, objective evaluation tool for the basics of open laparotomy training using a simulated model. <i>American Journal of Surgery</i> , 2017, 214, 152-157.	1.8	3
86	Calculating Heart Rate Variability from ECG Data from Youth with Cerebral Palsy During Active Video Game Sessions. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3
87	Immediate effect of percutaneous intramuscular stimulation during gait in children with cerebral palsy: a feasibility study. <i>Developmental Medicine and Child Neurology</i> , 2007, 47, 684-690.	2.1	2
88	Functional brain activity monitoring during Unmanned Aerial Vehicle coordination. , 2012, , .		2
89	Socioeconomic Variables of Patients with Spasmodic Dysphonia: A Preliminary Study. <i>Journal of Voice</i> , 2018, 32, 479-483.	1.5	2
90	Use of a hybrid-abdominal wound simulated patient in the ACS/ASE medical student simulation skills curriculum. <i>American Journal of Surgery</i> , 2019, 217, 250-255.	1.8	2

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91	Individual Differences in fNIRS Measures of Cognitive Workload During a UAS Mission. Lecture Notes in Computer Science, 2021, , 49-62.	1.3	2
92	Differential Prefrontal Response during Natural and Synthetic Speech Perception: An fNIR Based Neuroergonomics Study. Lecture Notes in Computer Science, 2013, , 241-249.	1.3	2
93	ANKLE MOVEMENTS DURING SUPINE KICKING IN RELATION TO GASTROCNEMIUS/SOLEUS LENGTH IN INFANTS BORN PRETERM. Pediatric Physical Therapy, 2006, 18, 92.	0.6	1
94	Specificity of a Maximal Step Exercise Test. Measurement in Physical Education and Exercise Science, 2007, 11, 131-148.	1.8	1
95	Cardiorespiratory Response During Physical Therapist Intervention for Infants and Young Children With Chronic Respiratory Insufficiency. Pediatric Physical Therapy, 2013, 25, 178-185.	0.6	1
96	Educational neuroscience with fNIR and simulation training of surgical tasks. Journal of the American College of Surgeons, 2015, 221, e9.	0.5	1
97	Cognitive-Motor Processes During Arm Reaching Performance Through a Human Body-Machine Interface. Lecture Notes in Computer Science, 2015, , 381-392.	1.3	1
98	Author Response to Invited Commentary by Heathcock. Physical Therapy, 2009, 89, e2-e4.	2.4	0
99	MEMORY CONSOLIDATION AND CONTEXTUAL INTERFERENCE EFFECTS WITH COMPUTER GAMES. Perceptual and Motor Skills, 2003, 97, 581.	1.3	0
100	Longitudinal Changes in Anthropometric Measures in Children in the 5th Grade. Medicine and Science in Sports and Exercise, 2016, 48, 1038.	0.4	0
101	Assessment Of Body Mass Index (BMI) Z-scores After One Year Of A School-based Health Intervention. Medicine and Science in Sports and Exercise, 2016, 48, 1037.	0.4	0