Tara L Alvarez

List of Publications by Year
in descending order

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114 papers	1,532 citations	318942 23 h-index	425179 34 g-index
115 all docs	115 docs citations	115 times ranked	792 citing authors

#	Article	IF	Citations
1	Structural and functional connectivity mapping of the human corpus callosum organization with white-matter functional networks. NeuroImage, 2021, 227, 117642.	2.1	26
2	Relationship Between Age and Cerebral Hemodynamic Response to Breath Holding: A Functional Near-Infrared Spectroscopy Study. Brain Topography, 2021, 34, 154-166.	0.8	0
3	Underlying neurological mechanisms associated with symptomatic convergence insufficiency. Scientific Reports, 2021, 11, 6545.	1.6	5
4	OculoMotor Assessment Tool Test Procedure and Normative Data. Optometry and Vision Science, 2021, 98, 636-643.	0.6	2
5	Topological Aberrance of Structural Brain Network Provides Quantitative Substrates of Post-Traumatic Brain Injury Attention Deficits in Children. Brain Connectivity, 2021, 11, 651-662.	0.8	6
6	Vergence fusion sustaining oscillations. Journal of Eye Movement Research, 2021, 14, .	0.5	2
7	Convergence Insufficiency Neuro-Mechanism Adult Population Study: Phoria Adaptation Results. , 2021, 62, 19.		3
8	Disparity vergence differences between typically occurring and concussion-related convergence insufficiency pediatric patients. Vision Research, 2021, 185, 58-67.	0.7	8
9	Negative Fusional Vergence Is Abnormal in Children with Symptomatic Convergence Insufficiency. Optometry and Vision Science, 2021, 98, 32-40.	0.6	1
10	The Convergence Insufficiency Neuro-mechanism in Adult Population Study (CINAPS) Randomized Clinical Trial: Design, Methods, and Clinical Data. Ophthalmic Epidemiology, 2020, 27, 52-72.	0.8	13
11	Resting-State Functional Connectivity of the Thalamus in Complete Spinal Cord Injury. Neurorehabilitation and Neural Repair, 2020, 34, 122-133.	1.4	20
12	Testâ€“Retest Reliability of Functional Magnetic Resonance Imaging Activation for a Vergence Eye Movement Task. Neuroscience Bulletin, 2020, 36, 506-518.	1.5	9
13	Testâ€“retest of a phoria adaptation stimulus-induced functional MRI experiment. Journal of Vision, 2020, 20, 17.	0.1	4
14	A Normative Study of Objective Measures of Disparity Vergence and Saccades in Children 9 to 17 Years Old. Optometry and Vision Science, 2020, 97, 416-423.	0.6	1
15	Multimodal neuroimaging-based prediction of adult outcomes in childhood-onset ADHD using ensemble learning techniques. NeuroImage: Clinical, 2020, 26, 102238.	1.4	31
16	The Organization of the Human Corpus Callosum Estimated by Intrinsic Functional Connectivity with White-Matter Functional Networks. Cerebral Cortex, 2020, 30, 3313-3324.	1.6	34
17	Reliability of Frontal Eye Fields Activation and Very Low-Frequency Oscillations Observed during Vergence Eye Movements: an fNIRS Study. Scientific Reports, 2020, 10, 712.	1.6	5
18	Convergence Insufficiency Neuro-mechanism in Adult Population Study Randomized Clinical Trial: Clinical Outcome Results. Optometry and Vision Science, 2020, 97, 1061-1069.	0.6	12

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19	Epidemiology and Incidence of Pediatric Concussions in General Aspects of Life. Brain Sciences, 2019, 9, 257.	1.1	19
20	Objective Assessment of Disparity Vergence after Treatment of Symptomatic Convergence Insufficiency in Children. Optometry and Vision Science, 2019, 96, 3-16.	0.6	17
21	Vergence Endurance Test: A Pilot Study for a Concussion Biomarker. Journal of Neurotrauma, 2019, 36, 2200-2212.	1.7	10
22	Clinical and Functional Imaging Changes Induced from Vision Therapy in Patients with Convergence Insufficiency. , 2019, 2019, 104-109.		4
23	Target eccentricity and form influences disparity vergence eye movements responses: A temporal and dynamic analysis. Journal of Eye Movement Research, 2019, 12, .	0.5	4
24	Dynamics of the disparity vergence fusion sustain component. Journal of Eye Movement Research, 2019, 12, .	0.5	6
25	Changes in the disparity vergence main sequence after treatment of symptomatic convergence insufficiency in children. Journal of Eye Movement Research, 2019, 12, .	0.5	2
26	Altered cortical activation and connectivity patterns for visual attention processing in young adults postâ€traumatic brain injury: A functional near infrared spectroscopy study. CNS Neuroscience and Therapeutics, 2018, 24, 539-548.	1.9	32
27	Distinct topological properties of cue-evoked attention processing network in persisters and remitters of childhood ADHD. Cortex, 2018, 109, 234-244.	1.1	10
28	Comparison of symmetrical prism adaptation to asymmetrical prism adaptation in those with normal binocular vision. Vision Research, 2018, 149, 59-65.	0.7	9
29	Effects of visual distractors on vergence eye movements. Journal of Vision, 2018, 18, 2.	0.1	9
30	MAPBOT: Meta-analytic parcellation based on text, and its application to the human thalamus. NeuroImage, 2017, 157, 716-732.	2.1	6
31	The influence of age on adaptation of disparity vergence and phoria. Vision Research, 2017, 133, 1-11.	0.7	16
32	Objective Assessment of Vergence after Treatment of Concussion-Related CI: A Pilot Study. Optometry and Vision Science, 2017, 94, 74-88.	0.6	52
33	Adaptation to Progressive Additive Lenses: Potential Factors to Consider. Scientific Reports, 2017, 7, 2529.	1.6	32
34	Disparity vergence responses before versus after repetitive vergence therapy in binocularly normal controls. Journal of Vision, 2016, 16, 7.	0.1	19
35	A pilot study of disparity vergence and near dissociated phoria in convergence insufficiency patients before vs. after vergence therapy. Frontiers in Human Neuroscience, 2015, 9, 419.	1.0	20
36	Functional activity within the frontal eye fields, posterior parietal cortex, and cerebellar vermis significantly correlates to symmetrical vergence peak velocity: an ROI-based, fMRI study of vergence training. Frontiers in Integrative Neuroscience, 2014, 8, 50.	1.0	52

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37	The effect of vision training on binocularly normal subjects. , 2014, , .		0
38	Instrumentation to stimulate gap saccades, pro-saccades, and overlap saccades. , 2014, , .		0
39	Functional connectivity of vergence neural substrates. , 2014, , .		1
40	A method to compare processing speed and oculomotor function using a modified SDMT.. , 2014, , .		0
41	Repetitive vergence training improves precision. , 2014, , .		0
42	Stereoscopic vision and its asymmetrical underpinnings: A study in vergence measures. , 2014, , .		0
43	Short-term modification of vergence ramp eye movements in the convergent direction. , 2014, , .		0
44	Task-Modulated Coactivation of Vergence Neural Substrates. Brain Connectivity, 2014, 4, 595-607.	0.8	20
45	The horizontal dark oculomotor rest position. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 2119-2130.	1.0	3
46	Checking the Saliency of the Stimuli on Central versus Peripheral Visual Field. , 2013, , .		0
47	Analysis of Saccades and Peak Velocity to Symmetrical Convergence Stimuli: Binocularly Normal Controls Compared to Convergence Insufficiency Patients. , 2013, 54, 4122.		29
48	Custom software for NJIT flexible visual stimulator. , 2012, , .		0
49	Comparison of whole-brain to region-based fMRI analyses. , 2012, , .		0
50	Concurrent Vision Dysfunctions in Convergence Insufficiency With Traumatic Brain Injury. Optometry and Vision Science, 2012, 89, 1740-1751.	0.6	89
51	An fMRI investigation of a memory guided vergence task: Insights to the parahippocampal area. , 2012, , .		0
52	Instrumentation to study the influence of attention on disparity vergence: Design of novel central and peripheral stimuli. , 2012, , .		0
53	The Changes in Phoria and Convergence to Divergence Peak Velocity Ratio Are Correlated. Current Eye Research, 2012, 37, 1054-1065.	0.7	11
54	The frequency of horizontal saccades in near and far symmetrical disparity vergence. Vision Research, 2012, 63, 9-19.	0.7	18

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55	VisualEyes: A Modular Software System for Oculomotor Experimentation. Journal of Visualized Experiments, 2011, , .	0.2	25
56	Short-term adaptations of the dynamic disparity vergence and phoria systems. Experimental Brain Research, 2011, 212, 267-278.	0.7	28
57	Functional connectivity in vergence and saccade eye movement tasks assessed using Granger Causality Analysis. , 2011, 2011, 8114-7.		8
58	Segregation of frontoparietal and cerebellar components within saccade and vergence networks using hierarchical independent component analysis of fMRI. Visual Neuroscience, 2011, 28, 247-261.	0.5	24
59	The frequency of saccades correlates to peak velocity in symmetrical disparity vergence. , 2011, 2011, 1664-7.		2
60	Sustained Fixation Induced Changes in Phoria and Convergence Peak Velocity. PLoS ONE, 2011, 6, e20883.	1.1	29
61	Differentiation between Vergence and Saccadic Functional Activity within the Human Frontal Eye Fields and Midbrain Revealed through fMRI. PLoS ONE, 2011, 6, e25866.	1.1	42
62	Vision Therapy in Adults with Convergence Insufficiency: Clinical and Functional Magnetic Resonance Imaging Measures. Optometry and Vision Science, 2010, 87, E985-E1002.	0.6	99
63	Functional anatomy of predictive vergence and saccade eye movements in humans: A functional MRI investigation. Vision Research, 2010, 50, 2163-2175.	0.7	53
64	Quantification of heterophoria and phoria adaptation using an automated objective system compared to clinical methods. Ophthalmic and Physiological Optics, 2010, 30, 95-107.	1.0	45
65	The Relationship between Phoria and the Ratio of Convergence Peak Velocity to Divergence Peak Velocity. , 2010, 51, 4017.		35
66	Interfacing a tonometer with a microcontroller to monitor diurnal intraocular pressure variations. , 2010, , .		1
67	The vergence transient component from a GMCA correlates to progressive lens acceptability. , 2010, , .		0
68	Saccade correlation to adaptation of progressive lens amongst presbyopes. , 2010, , .		2
69	Functional connectivity in oculomotor movements. , 2010, , .		0
70	Neural control in vergence eye movements. , 2010, , .		1
71	The correlation between change in near-dissociated phoria and vergence dynamics. , 2010, , .		1
72	The cerebral vascular enhancement effect in establishing diffusion tensor imaging protocols. , 2010, , .		0

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73	Visual cortical circuits revealed using fMRI and ICA. , 2010, , .		1
74	The frequency of saccades in relation to convergence and divergence dynamics. , 2010, , .		0
75	Independent components of oculomotor learning. , 2009, , .		0
76	ICA decomposition of vergence dynamics in convergence insufficiency patients. , 2009, , .		0
77	Saccadic and vergence functional activity in the pons. , 2009, , .		0
78	Design of microcontroller based circuitry for use in the multi-tesla field strength environments found in functional Magnetic Resonance Imaging. , 2009, , .		0
79	Cortical location of FEF revealed using fMRI. , 2009, , .		0
80	Neuroplasticity in vision dysfunction. , 2009, , .		2
81	Adaptation to progressive lenses by presbyopes. , 2009, , .		7
82	Saccade and vergence interaction during fatigued versus non-fatigued sessions. , 2009, , .		1
83	Convergence dynamics as an indicator for progressive addition lens acceptability among presbyopes. , 2009, , .		2
84	Sustained convergence induced changes in phoria and divergence dynamics. Vision Research, 2009, 49, 2960-2972.	0.7	35
85	The Cerebral Vascular Enhancement Effect in Establishing Diffusion Tensor Imaging Protocols. , 2009, , .		0
86	Decomposition of Vergence Dynamics Using Independent Component Analysis. , 2009, , .		0
87	Functional MRI as a Tool to Quantify Cortical Changes from Vision Rehabilitation. , 2009, , .		0
88	Motor learning discerning progressive lens acceptability in presbyopes. , 2009, , .		1
89	Correction of Saccade-Induced Midline Errors in Responses to Pure Disparity Vergence Stimuli.. Journal of Eye Movement Research, 2009, 2, .	0.5	14
90	Brief intermittent light stimulation disrupts saccadic oculomotor control. Ophthalmic and Physiological Optics, 2008, 28, 354-364.	1.0	2

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91	Quantitative assessment of divergence eye movements. Journal of Vision, 2008, 8, 5-5.	0.1	15
92	Saccadic Behavior during the Response to Pure Vergence Stimuli. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4854-7.	0.5	8
93	Vergence Transient Component: An Index to Oculomotor Learning Modification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4850-3.	0.5	12
94	An fMRI investigation in oculomotor learning through vergence eye movements. , 2007, , .		0
95	Entropy analysis on vergence eye movement data for progressive lens acceptability in presbyopia. , 2007, , .		3
96	Cortical location of saccadic oculomotor learning using fMRI. , 2007, , .		0
97	A dynamic study of divergence extraocular muscle. , 2007, , .		0
98	Dry dissection of disparity divergence eye movements using independent component analysis. Computers in Biology and Medicine, 2007, 37, 910-918.	3.9	19
99	Dynamic assessment of disparity vergence ramps. Computers in Biology and Medicine, 2007, 37, 903-909.	3.9	13
100	The Transient Component of Disparity Vergence maybe an Indication of Progressive Lens Acceptability. , 2006, 2006, 5687-90.		9
101	Divergence Dynamic Modification as a Function of Initial Position. , 2006, 2006, 5683-6.		2
102	Quantitative Assessment of Divergence Eye Movements to Ramp Stimuli. , 2006, 2006, 3954-7.		2
103	Divergence Dynamic Modification as a Function of Initial Position. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
104	The Transient Component of Disparity Vergence maybe an Indication of Progressive Lens Acceptability. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
105	Quantitative Assessment of Divergence Eye Movements to Ramp Stimuli. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
106	Short-term predictive changes in the dynamics of disparity vergence eye movements. Journal of Vision, 2005, 5, 4-4.	0.1	47
107	Divergence eye movements are dependent on initial stimulus position. Vision Research, 2005, 45, 1847-1855.	0.7	47
108	The Proview phosphene tonometer fails to measure ocular pressure accurately in clinical practice*1. Ophthalmology, 2004, 111, 1077-1085.	2.5	41

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109	Disparity vergence double responses processed by internal error. Vision Research, 2000, 40, 341-347.	0.7	22
110	Dynamic Details of Disparity Convergence Eye Movements. Annals of Biomedical Engineering, 1999, 27, 380-390.	1.3	30
111	Dynamics of the disparity vergence step response: a model-based analysis. IEEE Transactions on Biomedical Engineering, 1999, 46, 1191-1198.	2.5	32
112	Short term modification of disparity vergence eye movements. Vision Research, 1999, 39, 1695-1705.	0.7	36
113	Evidence for separate control of slow version and vergence eye movements: support for Hering's Law. Vision Research, 1998, 38, 1145-1152.	0.7	30
114	Closely Spaced, Fast Dynamic Movements in Disparity Vergence. Journal of Neurophysiology, 1998, 79, 37-44.	0.9	31