

Tara L Alvarez

List of Publications by Year in descending order

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114
papers

1,532
citations

279798

23
h-index

377865

34
g-index

115
all docs

115
docs citations

115
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	Vision Therapy in Adults with Convergence Insufficiency: Clinical and Functional Magnetic Resonance Imaging Measures. <i>Optometry and Vision Science</i> , 2010, 87, E985-E1002.	1.2	99
2	Concurrent Vision Dysfunctions in Convergence Insufficiency With Traumatic Brain Injury. <i>Optometry and Vision Science</i> , 2012, 89, 1740-1751.	1.2	89
3	Functional anatomy of predictive vergence and saccade eye movements in humans: A functional MRI investigation. <i>Vision Research</i> , 2010, 50, 2163-2175.	1.4	53
4	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. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 50.	2.1	52
5	Objective Assessment of Vergence after Treatment of Concussion-Related CI: A Pilot Study. <i>Optometry and Vision Science</i> , 2017, 94, 74-88.	1.2	52
6	Short-term predictive changes in the dynamics of disparity vergence eye movements. <i>Journal of Vision</i> , 2005, 5, 4-4.	0.3	47
7	Divergence eye movements are dependent on initial stimulus position. <i>Vision Research</i> , 2005, 45, 1847-1855.	1.4	47
8	Quantification of heterophoria and phoria adaptation using an automated objective system compared to clinical methods. <i>Ophthalmic and Physiological Optics</i> , 2010, 30, 95-107.	2.0	45
9	Differentiation between Vergence and Saccadic Functional Activity within the Human Frontal Eye Fields and Midbrain Revealed through fMRI. <i>PLoS ONE</i> , 2011, 6, e25866.	2.5	42
10	The Proview phosphene tonometer fails to measure ocular pressure accurately in clinical practice*1. <i>Ophthalmology</i> , 2004, 111, 1077-1085.	5.2	41
11	Short term modification of disparity vergence eye movements. <i>Vision Research</i> , 1999, 39, 1695-1705.	1.4	36
12	Sustained convergence induced changes in phoria and divergence dynamics. <i>Vision Research</i> , 2009, 49, 2960-2972.	1.4	35
13	The Relationship between Phoria and the Ratio of Convergence Peak Velocity to Divergence Peak Velocity. , 2010, 51, 4017.		35
14	The Organization of the Human Corpus Callosum Estimated by Intrinsic Functional Connectivity with White-Matter Functional Networks. <i>Cerebral Cortex</i> , 2020, 30, 3313-3324.	2.9	34
15	Dynamics of the disparity vergence step response: a model-based analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 1999, 46, 1191-1198.	4.2	32
16	Adaptation to Progressive Additive Lenses: Potential Factors to Consider. <i>Scientific Reports</i> , 2017, 7, 2529.	3.3	32
17	Altered cortical activation and connectivity patterns for visual attention processing in young adults post-traumatic brain injury: A functional near infrared spectroscopy study. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 539-548.	3.9	32
18	Closely Spaced, Fast Dynamic Movements in Disparity Vergence. <i>Journal of Neurophysiology</i> , 1998, 79, 37-44.	1.8	31

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19	Multimodal neuroimaging-based prediction of adult outcomes in childhood-onset ADHD using ensemble learning techniques. <i>NeuroImage: Clinical</i> , 2020, 26, 102238.	2.7	31
20	Evidence for separate control of slow version and vergence eye movements: support for Hering's Law. <i>Vision Research</i> , 1998, 38, 1145-1152.	1.4	30
21	Dynamic Details of Disparity Convergence Eye Movements. <i>Annals of Biomedical Engineering</i> , 1999, 27, 380-390.	2.5	30
22	Analysis of Saccades and Peak Velocity to Symmetrical Convergence Stimuli: Binocularly Normal Controls Compared to Convergence Insufficiency Patients. , 2013, 54, 4122.		29
23	Sustained Fixation Induced Changes in Phoria and Convergence Peak Velocity. <i>PLoS ONE</i> , 2011, 6, e20883.	2.5	29
24	Short-term adaptations of the dynamic disparity vergence and phoria systems. <i>Experimental Brain Research</i> , 2011, 212, 267-278.	1.5	28
25	Structural and functional connectivity mapping of the human corpus callosum organization with white-matter functional networks. <i>NeuroImage</i> , 2021, 227, 117642.	4.2	26
26	VisualEyes: A Modular Software System for Oculomotor Experimentation. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	25
27	Segregation of frontoparietal and cerebellar components within saccade and vergence networks using hierarchical independent component analysis of fMRI. <i>Visual Neuroscience</i> , 2011, 28, 247-261.	1.0	24
28	Disparity vergence double responses processed by internal error. <i>Vision Research</i> , 2000, 40, 341-347.	1.4	22
29	Task-Modulated Coactivation of Vergence Neural Substrates. <i>Brain Connectivity</i> , 2014, 4, 595-607.	1.7	20
30	A pilot study of disparity vergence and near dissociated phoria in convergence insufficiency patients before vs. after vergence therapy. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 419.	2.0	20
31	Resting-State Functional Connectivity of the Thalamus in Complete Spinal Cord Injury. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 122-133.	2.9	20
32	Dry dissection of disparity divergence eye movements using independent component analysis. <i>Computers in Biology and Medicine</i> , 2007, 37, 910-918.	7.0	19
33	Disparity vergence responses before versus after repetitive vergence therapy in binocularly normal controls. <i>Journal of Vision</i> , 2016, 16, 7.	0.3	19
34	Epidemiology and Incidence of Pediatric Concussions in General Aspects of Life. <i>Brain Sciences</i> , 2019, 9, 257.	2.3	19
35	The frequency of horizontal saccades in near and far symmetrical disparity vergence. <i>Vision Research</i> , 2012, 63, 9-19.	1.4	18
36	Objective Assessment of Disparity Vergence after Treatment of Symptomatic Convergence Insufficiency in Children. <i>Optometry and Vision Science</i> , 2019, 96, 3-16.	1.2	17

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37	The influence of age on adaptation of disparity vergence and phoria. <i>Vision Research</i> , 2017, 133, 1-11.	1.4	16
38	Quantitative assessment of divergence eye movements. <i>Journal of Vision</i> , 2008, 8, 5-5.	0.3	15
39	Correction of Saccade-Induced Midline Errors in Responses to Pure Disparity Vergence Stimuli.. <i>Journal of Eye Movement Research</i> , 2009, 2, .	0.8	14
40	Dynamic assessment of disparity vergence ramps. <i>Computers in Biology and Medicine</i> , 2007, 37, 903-909.	7.0	13
41	The Convergence Insufficiency Neuro-mechanism in Adult Population Study (CINAPS) Randomized Clinical Trial: Design, Methods, and Clinical Data. <i>Ophthalmic Epidemiology</i> , 2020, 27, 52-72.	1.7	13
42	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
43	Convergence Insufficiency Neuro-mechanism in Adult Population Study Randomized Clinical Trial: Clinical Outcome Results. <i>Optometry and Vision Science</i> , 2020, 97, 1061-1069.	1.2	12
44	The Changes in Phoria and Convergence to Divergence Peak Velocity Ratio Are Correlated. <i>Current Eye Research</i> , 2012, 37, 1054-1065.	1.5	11
45	Distinct topological properties of cue-evoked attention processing network in persisters and remitters of childhood ADHD. <i>Cortex</i> , 2018, 109, 234-244.	2.4	10
46	Vergence Endurance Test: A Pilot Study for a Concussion Biomarker. <i>Journal of Neurotrauma</i> , 2019, 36, 2200-2212.	3.4	10
47	The Transient Component of Disparity Vergence maybe an Indication of Progressive Lens Acceptability. , 2006, 2006, 5687-90.		9
48	Comparison of symmetrical prism adaptation to asymmetrical prism adaptation in those with normal binocular vision. <i>Vision Research</i> , 2018, 149, 59-65.	1.4	9
49	Effects of visual distractors on vergence eye movements. <i>Journal of Vision</i> , 2018, 18, 2.	0.3	9
50	Testâ€œRetest Reliability of Functional Magnetic Resonance Imaging Activation for a Vergence Eye Movement Task. <i>Neuroscience Bulletin</i> , 2020, 36, 506-518.	2.9	9
51	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
52	Functional connectivity in vergence and saccade eye movement tasks assessed using Granger Causality Analysis. , 2011, 2011, 8114-7.		8
53	Disparity vergence differences between typically occurring and concussion-related convergence insufficiency pediatric patients. <i>Vision Research</i> , 2021, 185, 58-67.	1.4	8
54	Adaptation to progressive lenses by presbyopes. , 2009, , .		7

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55	MAPBOT: Meta-analytic parcellation based on text, and its application to the human thalamus. <i>NeuroImage</i> , 2017, 157, 716-732.	4.2	6
56	Topological Aberrance of Structural Brain Network Provides Quantitative Substrates of Post-Traumatic Brain Injury Attention Deficits in Children. <i>Brain Connectivity</i> , 2021, 11, 651-662.	1.7	6
57	Dynamics of the disparity vergence fusion sustain component. <i>Journal of Eye Movement Research</i> , 2019, 12, .	0.8	6
58	Reliability of Frontal Eye Fields Activation and Very Low-Frequency Oscillations Observed during Vergence Eye Movements: an fNIRS Study. <i>Scientific Reports</i> , 2020, 10, 712.	3.3	5
59	Underlying neurological mechanisms associated with symptomatic convergence insufficiency. <i>Scientific Reports</i> , 2021, 11, 6545.	3.3	5
60	Clinical and Functional Imaging Changes Induced from Vision Therapy in Patients with Convergence Insufficiency. , 2019, 2019, 104-109.		4
61	Testâ€“retest of a phoria adaptation stimulus-induced functional MRI experiment. <i>Journal of Vision</i> , 2020, 20, 17.	0.3	4
62	Target eccentricity and form influences disparity vergence eye movements responses: A temporal and dynamic analysis. <i>Journal of Eye Movement Research</i> , 2019, 12, .	0.8	4
63	Entropy analysis on vergence eye movement data for progressive lens acceptability in presbyopia. , 2007, , .		3
64	The horizontal dark oculomotor rest position. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2013, 251, 2119-2130.	1.9	3
65	Convergence Insufficiency Neuro-Mechanism Adult Population Study: Phoria Adaptation Results. , 2021, 62, 19.		3
66	Divergence Dynamic Modification as a Function of Initial Position. , 2006, 2006, 5683-6.		2
67	Quantitative Assessment of Divergence Eye Movements to Ramp Stimuli. , 2006, 2006, 3954-7.		2
68	Brief intermittent light stimulation disrupts saccadic oculomotor control. <i>Ophthalmic and Physiological Optics</i> , 2008, 28, 354-364.	2.0	2
69	Neuroplasticity in vision dysfunction. , 2009, , .		2
70	Convergence dynamics as an indicator for progressive addition lens acceptability among presbyopes. , 2009, , .		2
71	Saccade correlation to adaptation of progressive lens amongst presbyopes. , 2010, , .		2
72	The frequency of saccades correlates to peak velocity in symmetrical disparity vergence. , 2011, 2011, 1664-7.		2

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73	OculoMotor Assessment Tool Test Procedure and Normative Data. Optometry and Vision Science, 2021, 98, 636-643.	1.2	2
74	Vergence fusion sustaining oscillations. Journal of Eye Movement Research, 2021, 14, .	0.8	2
75	Changes in the disparity vergence main sequence after treatment of symptomatic convergence insufficiency in children. Journal of Eye Movement Research, 2019, 12, .	0.8	2
76	Saccade and vergence interaction during fatigued versus non-fatigued sessions. , 2009, , .		1
77	Motor learning discerning progressive lens acceptability in presbyopes. , 2009, , .		1
78	Interfacing a tonometer with a microcontroller to monitor diurnal intraocular pressure variations. , 2010, , .		1
79	Neural control in vergence eye movements. , 2010, , .		1
80	The correlation between change in near-dissociated phoria and vergence dynamics. , 2010, , .		1
81	Visual cortical circuits revealed using fMRI and ICA. , 2010, , .		1
82	Functional connectivity of vergence neural substrates. , 2014, , .		1
83	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.	1.2	1
84	Negative Fusional Vergence Is Abnormal in Children with Symptomatic Convergence Insufficiency. Optometry and Vision Science, 2021, 98, 32-40.	1.2	1
85	An fMRI investigation in oculomotor learning through vergence eye movements. , 2007, , .		0
86	Cortical location of saccadic oculomotor learning using fMRI. , 2007, , .		0
87	A dynamic study of divergence extraocular muscle. , 2007, , .		0
88	Independent components of oculomotor learning. , 2009, , .		0
89	ICA decomposition of vergence dynamics in convergence insufficiency patients. , 2009, , .		0
90	Saccadic and vergence functional activity in the pons. , 2009, , .		0

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91	Design of microcontroller based circuitry for use in the multi-tesla field strength environments found in functional Magnetic Resonance Imaging. , 2009, , .		0
92	Cortical location of FEF revealed using fMRI. , 2009, , .		0
93	The Cerebral Vascular Enhancement Effect in Establishing Diffusion Tensor Imaging Protocols. , 2009, , .		0
94	Decomposition of Vergence Dynamics Using Independent Component Analysis. , 2009, , .		0
95	Functional MRI as a Tool to Quantify Cortical Changes from Vision Rehabilitation. , 2009, , .		0
96	The vergence transient component from a GMCA correlates to progressive lens acceptability. , 2010, , .		0
97	Functional connectivity in oculomotor movements. , 2010, , .		0
98	The cerebral vascular enhancement effect in establishing diffusion tensor imaging protocols. , 2010, , .		0
99	The frequency of saccades in relation to convergence and divergence dynamics. , 2010, , .		0
100	Custom software for NJIT flexible visual stimulator. , 2012, , .		0
101	Comparison of whole-brain to region-based fMRI analyses. , 2012, , .		0
102	An fMRI investigation of a memory guided vergence task: Insights to the parahippocampal area. , 2012, , .		0
103	Instrumentation to study the influence of attention on disparity vergence: Design of novel central and peripheral stimuli. , 2012, , .		0
104	Checking the Saliency of the Stimuli on Central versus Peripheral Visual Field. , 2013, , .		0
105	The effect of vision training on binocularly normal subjects. , 2014, , .		0
106	Instrumentation to stimulate gap saccades, pro-saccades, and overlap saccades. , 2014, , .		0
107	A method to compare processing speed and oculomotor function using a modified SDMT.. , 2014, , .		0
108	Repetitive vergence training improves precision. , 2014, , .		0

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109	Stereoscopic vision and its asymmetrical underpinnings: A study in vergence measures. , 2014, , .		0
110	Short-term modification of vergence ramp eye movements in the convergent direction. , 2014, , .		0
111	Relationship Between Age and Cerebral Hemodynamic Response to Breath Holding: A Functional Near-Infrared Spectroscopy Study. Brain Topography, 2021, 34, 154-166.	1.8	0
112	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
113	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
114	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