

Tad T BrunyÃ©

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

3,577
citations

136950

32
h-index

182427

51
g-index

143
all docs

143
docs citations

143
times ranked

3532
citing authors

#	ARTICLE	IF	CITATIONS
1	Eye-tracking for assessing medical image interpretation: A pilot feasibility study comparing novice vs expert cardiologists. Perspectives on Medical Education, 2022, 8, 65-73.	3.5	18
2	Modulating Cognitiveâ€“Motor Multitasking with Commercial-off-the-Shelf Non-Invasive Brain Stimulation. Brain Sciences, 2022, 12, 180.	2.3	3
3	An analysis of pathologistsâ€™ viewing processes as they diagnose whole slide digital images. Journal of Pathology Informatics, 2022, 13, 100104.	1.7	2
4	Cranial Electrotherapy Stimulation (CES) Does Not Reliably Influence Emotional, Physiological, Biochemical, or Behavioral Responses to Acute Stress. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2022, 6, 417-433.	1.6	1
5	Interaction Strategies for Effective Augmented Reality Geo-Visualization: Insights from Spatial Cognition. Human-Computer Interaction, 2021, 36, 107-149.	4.4	17
6	Non-invasive Brain Stimulation Effects on the Perceptual and Cognitive Processes Underlying Decision-making: a Mini Review. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2021, 5, 233-244.	1.6	5
7	Acute stress improves analogical reasoning: examining the roles of stress hormones and long-term memory. Thinking and Reasoning, 2021, 27, 294-318.	3.2	1
8	A Critical Review of Cranial Electrotherapy Stimulation for Neuromodulation in Clinical and Non-clinical Samples. Frontiers in Human Neuroscience, 2021, 15, 625321.	2.0	22
9	Melanoma in the blink of an eye: Pathologistsâ€™ rapid detection, classification, and localization of skin abnormalities. Visual Cognition, 2021, 29, 386-400.	1.6	2
10	Analysis of Regions of Interest and Distractor Regions in Breast Biopsy Images. , 2021, , .		2
11	Toward Predicting Human Performance Outcomes From Wearable Technologies: A Computational Modeling Approach. Frontiers in Physiology, 2021, 12, 738973.	2.8	7
12	Pathologist pupil dilation reflects difficulty in diagnosing digital breast tissue biopsies. Journal of Vision, 2021, 21, 2666.	0.3	1
13	More scanning, but not zooming, is associated with diagnostic accuracy in evaluating digital breast pathology slides. Journal of Vision, 2021, 21, 7.	0.3	7
14	Action compatibility in spatial knowledge developed through virtual navigation. Psychological Research, 2020, 84, 177-191.	1.7	4
15	Pathology Traineesâ€™ Experience and Attitudes on Use of Digital Whole Slide Images. Academic Pathology, 2020, 7, 2374289520951922.	1.1	8
16	When Anger Motivates: Approach States Selectively Influence Running Performance. Frontiers in Psychology, 2020, 11, 1663.	2.1	1
17	Brief, prior, exposure to red decreases categorical and coordinate spatial task performance. Brain and Cognition, 2020, 142, 105571.	1.8	0
18	Targeting the anterior cingulate with bipolar and high-definition transcranial direct current stimulation. NeuroReport, 2020, 31, 346-351.	1.2	2

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19	A Review of US Army Research Contributing to Cognitive Enhancement in Military Contexts. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2020, 4, 453-468.	1.6	25
20	Cognitive focus affects spatial decisions under conditions of uncertainty. Cognitive Processing, 2020, 21, 287-302.	1.4	3
21	Retrieval practice enhances near but not far transfer of spatial memory.. Journal of Experimental Psychology: Learning Memory and Cognition, 2020, 46, 24-45.	0.9	9
22	Eye tracking reveals expertise-related differences in the time-course of medical image inspection and diagnosis. Journal of Medical Imaging, 2020, 7, .	1.5	13
23	Uncertainty promotes information-seeking actions, but what information?. Cognitive Research: Principles and Implications, 2020, 5, 42.	2.0	15
24	Eye-tracking for human-centered mixed reality: promises and challenges. , 2020, , .		12
25	Superior categorical and coordinate spatial task performance in inconsistent-handers relative to consistent-right-handers. Laterality, 2019, 24, 274-288.	1.0	5
26	East is not right: Spatial compatibility differs between egocentric and cardinal retrieval. Quarterly Journal of Experimental Psychology, 2019, 72, 1250-1279.	1.1	2
27	Characterizing the Cognitive Impact of Tangible Augmented Reality. Lecture Notes in Computer Science, 2019, , 416-427.	1.3	1
28	Risk-taking during wayfinding is modulated by external stressors and personality traits. Spatial Cognition and Computation, 2019, 19, 283-308.	1.2	4
29	Categorical and coordinate spatial task performance in inconsistent-handers versus consistent-right-handers: part II. Cognitive Processing, 2019, 20, 441-446.	1.4	1
30	Camouflage pattern features interact with movement speed to determine human target detectability. Applied Ergonomics, 2019, 77, 50-57.	3.1	18
31	A review of eye tracking for understanding and improving diagnostic interpretation. Cognitive Research: Principles and Implications, 2019, 4, 7.	2.0	96
32	Modulating Applied Task Performance via Transcranial Electrical Stimulation. Frontiers in Human Neuroscience, 2019, 13, 140.	2.0	11
33	Relationships between use of dietary supplements, caffeine and sensation seeking among college students. Journal of American College Health, 2019, 67, 688-697.	1.5	2
34	Seeing the city: using eye-tracking technology to explore cognitive responses to the built environment. Journal of Urbanism, 2019, 12, 156-171.	0.9	36
35	Exercise-Induced Physiological Arousal Biases Attention Toward Threatening Scene Details. Psychological Reports, 2019, 122, 79-95.	1.7	2
36	Breast cancer prognostic factors in the digital era: Comparison of Nottingham grade using whole slide images and glass slides. Journal of Pathology Informatics, 2019, 10, 11.	1.7	19

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37	Targeted Right Medial Temporal Lobe tDCS and Associative Spatial and Non-Spatial Memory. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2018, 2, 287-297.	1.6	6
38	Cognitive reappraisal reduces perceived exertion during endurance exercise. <i>Motivation and Emotion</i> , 2018, 42, 482-496.	1.3	18
39	Cognitive load during route selection increases reliance on spatial heuristics. <i>Quarterly Journal of Experimental Psychology</i> , 2018, 71, 1045-1056.	1.1	5
40	Characterizing Diagnostic Search Patterns in Digital Breast Pathology: Scanners and Drillers. <i>Journal of Digital Imaging</i> , 2018, 31, 32-41.	2.9	24
41	Verbal long-term memory is enhanced by retrieval practice but impaired by prefrontal direct current stimulation. <i>Brain and Cognition</i> , 2018, 128, 80-88.	1.8	12
42	Endurance Exercise Enhances Emotional Valence and Emotion Regulation. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 398.	2.0	22
43	Spatial decision dynamics during wayfinding: intersections prompt the decision-making process. <i>Cognitive Research: Principles and Implications</i> , 2018, 3, .	2.0	22
44	Visual salience and biological motion interact to determine camouflaged target detectability. <i>Applied Ergonomics</i> , 2018, 73, 1-6.	3.1	13
45	The Path more Travelled: Time Pressure Increases Reliance on Familiar Route-Based Strategies during Navigation. <i>Quarterly Journal of Experimental Psychology</i> , 2017, 70, 1439-1452.	1.1	30
46	The Influence of Disease Severity of Preceding Clinical Cases on Pathologists'™ Medical Decision Making. <i>Medical Decision Making</i> , 2017, 37, 91-100.	2.4	8
47	Non-invasive brain stimulation targeting the right fusiform gyrus selectively increases working memory for faces. <i>Brain and Cognition</i> , 2017, 113, 32-39.	1.8	30
48	Accuracy is in the eyes of the pathologist: The visual interpretive process and diagnostic accuracy with digital whole slide images. <i>Journal of Biomedical Informatics</i> , 2017, 66, 171-179.	4.3	62
49	Masked priming for the comparative evaluation of camouflage conspicuity. <i>Applied Ergonomics</i> , 2017, 62, 259-267.	3.1	9
50	Relationship between sustained unilateral hand clench, emotional state, line bisection performance, and prefrontal cortical activity: A functional near-infrared spectroscopy study. <i>Laterality</i> , 2017, 22, 671-689.	1.0	9
51	Cautiously Caffeinated: Does Caffeine Modulate Inhibitory, Impulsive, or Risky Behavior?. <i>Journal of Caffeine Research</i> , 2017, 7, 7-17.	0.9	5
52	Habitual exercise is associated with cognitive control and cognitive reappraisal success. <i>Experimental Brain Research</i> , 2017, 235, 3785-3797.	1.5	41
53	Eye tracking measures of uncertainty during perceptual decision making. <i>International Journal of Psychophysiology</i> , 2017, 120, 60-68.	1.0	49
54	Cognitive strategies in the mental rotation task revealed by EEG spectral power. <i>Brain and Cognition</i> , 2017, 118, 1-18.	1.8	30

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55	Caffeine and theanine exert opposite effects on attention under emotional arousal. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017, 95, 93-100.	1.4	18
56	Modulating Spatial Processes and Navigation via Transcranial Electrical Stimulation: A Mini Review. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 649.	2.0	11
57	A Randomized Study Comparing Digital Imaging to Traditional Glass Slide Microscopy for Breast Biopsy and Cancer Diagnosis. <i>Journal of Pathology Informatics</i> , 2017, 8, 12.	1.7	28
58	Registration errors in beacon-based navigation guidance systems: Influences on path efficiency and user reliance. <i>International Journal of Human Computer Studies</i> , 2016, 96, 1-11.	5.6	12
59	Pupil diameter changes reflect difficulty and diagnostic accuracy during medical image interpretation. <i>BMC Medical Informatics and Decision Making</i> , 2016, 16, 77.	3.0	15
60	Region of interest identification and diagnostic agreement in breast pathology. <i>Modern Pathology</i> , 2016, 29, 1004-1011.	5.5	17
61	Localization of Diagnostically Relevant Regions of Interest in Whole Slide Images: a Comparative Study. <i>Journal of Digital Imaging</i> , 2016, 29, 496-506.	2.9	55
62	Gardony Map Drawing Analyzer: Software for quantitative analysis of sketch maps. <i>Behavior Research Methods</i> , 2016, 48, 151-177.	4.0	69
63	Direct current stimulation of the left temporoparietal junction modulates dynamic humor appreciation. <i>NeuroReport</i> , 2015, 26, 988-993.	1.2	13
64	The Effects of Load Carriage and Physical Fatigue on Cognitive Performance. <i>PLoS ONE</i> , 2015, 10, e0130817.	2.5	31
65	The Map in Our Head Is Not Oriented North: Evidence from a Real-World Environment. <i>PLoS ONE</i> , 2015, 10, e0135803.	2.5	16
66	The effect of a brief mindfulness induction on processing of emotional images: an ERP study. <i>Frontiers in Psychology</i> , 2015, 6, 1391.	2.1	30
67	Lateralized differences in tympanic membrane temperature, but not induced mood, are related to episodic memory. <i>Brain and Cognition</i> , 2015, 94, 52-59.	1.8	2
68	Omega-3 fatty acids and stress-induced changes to mood and cognition in healthy individuals. <i>Pharmacology Biochemistry and Behavior</i> , 2015, 132, 10-19.	2.9	30
69	Where did it come from, where do you go? Direction sources influence navigation decisions during spatial uncertainty. <i>Quarterly Journal of Experimental Psychology</i> , 2015, 68, 585-607.	1.1	16
70	Paths with More Turns are Perceived as Longer: Misperceptions with Map-Based and Abstracted Path Stimuli. <i>Perceptual and Motor Skills</i> , 2015, 120, 438-461.	1.3	6
71	Increasing breadth of semantic associations with left frontopolar direct current brain stimulation. <i>NeuroReport</i> , 2015, 26, 296-301.	1.2	29
72	Navigational Aids and Spatial Memory Impairment: The Role of Divided Attention. <i>Spatial Cognition and Computation</i> , 2015, 15, 246-284.	1.2	51

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73	Strategies for Selecting Routes through Real-World Environments: Relative Topography, Initial Route Straightness, and Cardinal Direction. PLoS ONE, 2015, 10, e0124404.	2.5	11
74	Eye Movements as an Index of Pathologist Visual Expertise: A Pilot Study. PLoS ONE, 2014, 9, e103447.	2.5	77
75	Hemispheric Bases for Emotion and Memory. Frontiers in Human Neuroscience, 2014, 8, 997.	2.0	0
76	Seeing the Forest or the Trees? Shifting Categorical Effects in Map Memory. Spatial Cognition and Computation, 2014, 14, 58-89.	1.2	9
77	Localization of Diagnostically Relevant Regions of Interest in Whole Slide Images. , 2014, , .		23
78	Living the high life: social status influences real estate decision making. Journal of Applied Social Psychology, 2014, 44, 611-621.	2.0	4
79	Stepping Into a Map: Initial Heading Direction Influences Spatial Memory Flexibility. Cognitive Science, 2014, 38, 275-302.	1.7	19
80	Mitigating Cutaneous Sensation Differences During tDCS: Comparing Sham Versus Low Intensity Control Conditions. Brain Stimulation, 2014, 7, 832-835.	1.6	17
81	Direct current brain stimulation enhances navigation efficiency in individuals with low spatial sense of direction. NeuroReport, 2014, 25, 1175-1179.	1.2	24
82	Acute exercise increases oxygenated and deoxygenated hemoglobin in the prefrontal cortex. NeuroReport, 2014, 25, 1320-1325.	1.2	43
83	Seeing the crowd for the bomber: Spontaneous threat perception from static and randomly moving crowd simulations.. Journal of Experimental Psychology: Applied, 2014, 20, 303-322.	1.2	7
84	Stress Effects on Mood, HPA Axis, and Autonomic Response: Comparison of Three Psychosocial Stress Paradigms. PLoS ONE, 2014, 9, e113618.	2.5	73
85	Acute exercise suppresses judgments of facial emotion intensity. Motivation and Emotion, 2013, 37, 787-798.	1.3	1
86	The Cognition of Spatial Cognition: Domain-General within Domain-specific. Psychology of Learning and Motivation - Advances in Research and Theory, 2013, , 77-116.	1.1	4
87	Happiness by association: Breadth of free association influences affective states. Cognition, 2013, 127, 93-98.	2.2	21
88	Learning to relax: Evaluating four brief interventions for overcoming the negative emotions accompanying math anxiety. Learning and Individual Differences, 2013, 27, 1-7.	2.7	83
89	Variable transmission lens influences on the dynamics of pupillary light reflexes. Ergonomics, 2013, 56, 1745-1753.	2.1	1
90	How Navigational Aids Impair Spatial Memory: Evidence for Divided Attention. Spatial Cognition and Computation, 2013, 13, 319-350.	1.2	97

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91	Tympanic Membrane Temperature, Hemispheric Activity, and Affect: Evidence for a Modest Relationship. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2013, 25, 198-204.	1.8	4
92	Lateralized Difference in Tympanic Membrane Temperature: Emotion and Hemispheric Activity. <i>Frontiers in Psychology</i> , 2013, 4, 104.	2.1	14
93	Caffeine Promotes Global Spatial Processing in Habitual and Non-Habitual Caffeine Consumers. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 694.	2.0	5
94	Getting a Grip on Memory: Unilateral Hand Clenching Alters Episodic Recall. <i>PLoS ONE</i> , 2013, 8, e62474.	2.5	22
95	Get in My Belly: Food Preferences Trigger Approach and Avoidant Postural Asymmetries. <i>PLoS ONE</i> , 2013, 8, e72432.	2.5	16
96	Caffeine increases false memory in nonhabitual consumers. <i>Journal of Cognitive Psychology</i> , 2012, 24, 420-427.	0.9	7
97	Caffeine enhances real-world language processing: Evidence from a proofreading task.. <i>Journal of Experimental Psychology: Applied</i> , 2012, 18, 95-108.	1.2	16
98	The Fabric of Thought: Priming Tactile Properties During Reading Influences Direct Tactile Perception. <i>Cognitive Science</i> , 2012, 36, 1449-1467.	1.7	14
99	Planning routes around the world: International evidence for southern route preferences. <i>Journal of Environmental Psychology</i> , 2012, 32, 297-304.	5.1	12
100	Gender and autistic personality traits predict perspective-taking ability in typical adults. <i>Personality and Individual Differences</i> , 2012, 52, 84-88.	2.9	37
101	Up north and down south: Implicit associations between topography and cardinal direction. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 1880-1894.	1.1	17
102	Differential cognitive effects of energy drink ingredients: Caffeine, taurine, and glucose. <i>Pharmacology Biochemistry and Behavior</i> , 2012, 102, 569-577.	2.9	113
103	Look over there! Unilateral gaze increases geographical memory of the 50 United States. <i>Brain and Cognition</i> , 2012, 78, 59-62.	1.8	5
104	Metacognitive monitoring in visuospatial working memory.. <i>Psychology and Aging</i> , 2012, 27, 1099-1110.	1.6	23
105	Abstract Spatial Concept Priming Dynamically Influences Real-World Actions. <i>Frontiers in Psychology</i> , 2012, 3, 361.	2.1	10
106	The Angry Spotlight: Trait Anger and Selective Visual Attention to Rewards. <i>European Journal of Personality</i> , 2012, 26, 90-98.	3.1	14
107	When going the right way is hard to do: Distinct phases of action compatibility in spatial knowledge development. <i>Acta Psychologica</i> , 2012, 139, 449-457.	1.5	12
108	Going to town: Visualized perspectives and navigation through virtual environments. <i>Computers in Human Behavior</i> , 2012, 28, 257-266.	8.5	36

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109	Body-specific representations of spatial location. <i>Cognition</i> , 2012, 123, 229-239.	2.2	50
110	Effects of four workplace lighting technologies on perception, cognition and affective state. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 122-128.	2.6	83
111	Mouse cursor movement and eye tracking data as an indicator of pathologists' attention when viewing digital whole slide images. <i>Journal of Pathology Informatics</i> , 2012, 3, 43.	1.7	25
112	Using message framing to achieve long-term behavioral changes in persons with diabetes. <i>Applied Nursing Research</i> , 2011, 24, 22-28.	2.2	23
113	High and mighty: implicit associations between space and social status. <i>Frontiers in Psychology</i> , 2011, 2, 259.	2.1	17
114	Increased Anger is Associated With Increased Hemispheric Asymmetry. <i>Journal of Nervous and Mental Disease</i> , 2011, 199, 716-720.	1.0	3
115	Caffeine-induced physiological arousal accentuates global processing biases. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 99, 59-65.	2.9	15
116	Better you than I: Perspectives and emotion simulation during narrative comprehension. <i>Journal of Cognitive Psychology</i> , 2011, 23, 659-666.	0.9	85
117	The Social Connection in Mental Representations of Space: Explicit and Implicit Evidence. <i>Lecture Notes in Computer Science</i> , 2011, , 231-244.	1.3	0
118	Negative Emotional Valence Is Associated With Non-Right-Handedness and Increased Imbalance of Hemispheric Activation as Measured by Tympanic Membrane Temperature. <i>Journal of Nervous and Mental Disease</i> , 2010, 198, 691-694.	1.0	13
119	North is up(hill): Route planning heuristics in real-world environments. <i>Memory and Cognition</i> , 2010, 38, 700-712.	1.6	48
120	Moving through imagined space: Mentally simulating locomotion during spatial description reading. <i>Acta Psychologica</i> , 2010, 134, 110-124.	1.5	24
121	You heard it here first: Readers mentally simulate described sounds. <i>Acta Psychologica</i> , 2010, 135, 209-215.	1.5	32
122	Simulating an enactment effect: Pronouns guide action simulation during narrative comprehension. <i>Cognition</i> , 2010, 115, 172-178.	2.2	74
123	Keeping Your Eyes on the Prize. <i>Psychological Science</i> , 2010, 21, 1098-1105.	3.3	68
124	Caffeine modulates attention network function. <i>Brain and Cognition</i> , 2010, 72, 181-188.	1.8	95
125	Acute caffeine consumption enhances the executive control of visual attention in habitual consumers. <i>Brain and Cognition</i> , 2010, 74, 186-192.	1.8	57
126	When goals constrain: Eye movements and memory for goal-oriented map study. <i>Applied Cognitive Psychology</i> , 2009, 23, 772-787.	1.6	30

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127	Emotional state and local versus global spatial memory. <i>Acta Psychologica</i> , 2009, 130, 138-146.	1.5	43
128	Horizontal saccadic eye movements enhance the retrieval of landmark shape and location information. <i>Brain and Cognition</i> , 2009, 70, 279-288.	1.8	53
129	When You and I Share Perspectives. <i>Psychological Science</i> , 2009, 20, 27-32.	3.3	234
130	Spatial and Nonspatial Integration in Learning and Training with Multimedia Systems. , 2009, , 108-133.		3
131	Repetition and dual coding in procedural multimedia presentations. <i>Applied Cognitive Psychology</i> , 2008, 22, 877-895.	1.6	33
132	Working memory in developing and applying mental models from spatial descriptions. <i>Journal of Memory and Language</i> , 2008, 58, 701-729.	2.1	76
133	Extended experience benefits spatial mental model development with route but not survey descriptions. <i>Acta Psychologica</i> , 2008, 127, 340-354.	1.5	62
134	Representational flexibility and specificity following spatial descriptions of real-world environments. <i>Cognition</i> , 2008, 108, 418-443.	2.2	40
135	Evaluating Camouflage Effectiveness Using Virtual Reality. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 2028-2032.	0.3	3
136	Spatial Mental Representation: Implications for Navigation System Design. <i>Reviews of Human Factors and Ergonomics</i> , 2008, 4, 1-40.	0.5	39
137	Learning Nursing Procedures: The Influence of Simulator Fidelity and Student Gender on Teaching Effectiveness. <i>Journal of Nursing Education</i> , 2008, 47, 403-408.	0.9	59
138	Levels of Detail in Descriptions and Depictions of Geographic Space. <i>Spatial Cognition and Computation</i> , 2007, 7, 227-266.	1.2	14
139	Learning procedures: the role of working memory in multimedia learning experiences. <i>Applied Cognitive Psychology</i> , 2006, 20, 917-940.	1.6	63
140	Identifying optimal graphical level of detail to support orienting with 3D geo-visualizations. <i>Spatial Cognition and Computation</i> , 0, , 1-26.	1.2	0