

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	When You and I Share Perspectives. <i>Psychological Science</i> , 2009, 20, 27-32.	3.3	234
2	Differential cognitive effects of energy drink ingredients: Caffeine, taurine, and glucose. <i>Pharmacology Biochemistry and Behavior</i> , 2012, 102, 569-577.	2.9	113
3	How Navigational Aids Impair Spatial Memory: Evidence for Divided Attention. <i>Spatial Cognition and Computation</i> , 2013, 13, 319-350.	1.2	97
4	A review of eye tracking for understanding and improving diagnostic interpretation. <i>Cognitive Research: Principles and Implications</i> , 2019, 4, 7.	2.0	96
5	Caffeine modulates attention network function. <i>Brain and Cognition</i> , 2010, 72, 181-188.	1.8	95
6	Better you than I: Perspectives and emotion simulation during narrative comprehension. <i>Journal of Cognitive Psychology</i> , 2011, 23, 659-666.	0.9	85
7	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
8	Learning to relax: Evaluating four brief interventions for overcoming the negative emotions accompanying math anxiety. <i>Learning and Individual Differences</i> , 2013, 27, 1-7.	2.7	83
9	Eye Movements as an Index of Pathologist Visual Expertise: A Pilot Study. <i>PLoS ONE</i> , 2014, 9, e103447.	2.5	77
10	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
11	Simulating an enactment effect: Pronouns guide action simulation during narrative comprehension. <i>Cognition</i> , 2010, 115, 172-178.	2.2	74
12	Stress Effects on Mood, HPA Axis, and Autonomic Response: Comparison of Three Psychosocial Stress Paradigms. <i>PLoS ONE</i> , 2014, 9, e113618.	2.5	73
13	Gardony Map Drawing Analyzer: Software for quantitative analysis of sketch maps. <i>Behavior Research Methods</i> , 2016, 48, 151-177.	4.0	69
14	Keeping Your Eyes on the Prize. <i>Psychological Science</i> , 2010, 21, 1098-1105.	3.3	68
15	Learning procedures: the role of working memory in multimedia learning experiences. <i>Applied Cognitive Psychology</i> , 2006, 20, 917-940.	1.6	63
16	Extended experience benefits spatial mental model development with route but not survey descriptions. <i>Acta Psychologica</i> , 2008, 127, 340-354.	1.5	62
17	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
18	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

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19	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
20	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
21	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
22	Navigational Aids and Spatial Memory Impairment: The Role of Divided Attention. <i>Spatial Cognition and Computation</i> , 2015, 15, 246-284.	1.2	51
23	Body-specific representations of spatial location. <i>Cognition</i> , 2012, 123, 229-239.	2.2	50
24	Eye tracking measures of uncertainty during perceptual decision making. <i>International Journal of Psychophysiology</i> , 2017, 120, 60-68.	1.0	49
25	North is up(hill): Route planning heuristics in real-world environments. <i>Memory and Cognition</i> , 2010, 38, 700-712.	1.6	48
26	Emotional state and local versus global spatial memory. <i>Acta Psychologica</i> , 2009, 130, 138-146.	1.5	43
27	Acute exercise increases oxygenated and deoxygenated hemoglobin in the prefrontal cortex. <i>NeuroReport</i> , 2014, 25, 1320-1325.	1.2	43
28	Habitual exercise is associated with cognitive control and cognitive reappraisal success. <i>Experimental Brain Research</i> , 2017, 235, 3785-3797.	1.5	41
29	Representational flexibility and specificity following spatial descriptions of real-world environments. <i>Cognition</i> , 2008, 108, 418-443.	2.2	40
30	Spatial Mental Representation: Implications for Navigation System Design. <i>Reviews of Human Factors and Ergonomics</i> , 2008, 4, 1-40.	0.5	39
31	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
32	Going to town: Visualized perspectives and navigation through virtual environments. <i>Computers in Human Behavior</i> , 2012, 28, 257-266.	8.5	36
33	Seeing the city: using eye-tracking technology to explore cognitive responses to the built environment. <i>Journal of Urbanism</i> , 2019, 12, 156-171.	0.9	36
34	Repetition and dual coding in procedural multimedia presentations. <i>Applied Cognitive Psychology</i> , 2008, 22, 877-895.	1.6	33
35	You heard it here first: Readers mentally simulate described sounds. <i>Acta Psychologica</i> , 2010, 135, 209-215.	1.5	32
36	The Effects of Load Carriage and Physical Fatigue on Cognitive Performance. <i>PLoS ONE</i> , 2015, 10, e0130817.	2.5	31

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37	When goals constrain: Eye movements and memory for goal-oriented map study. <i>Applied Cognitive Psychology</i> , 2009, 23, 772-787.	1.6	30
38	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
39	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
40	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
41	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
42	Cognitive strategies in the mental rotation task revealed by EEG spectral power. <i>Brain and Cognition</i> , 2017, 118, 1-18.	1.8	30
43	Increasing breadth of semantic associations with left frontopolar direct current brain stimulation. <i>NeuroReport</i> , 2015, 26, 296-301.	1.2	29
44	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
45	A Review of US Army Research Contributing to Cognitive Enhancement in Military Contexts. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2020, 4, 453-468.	1.6	25
46	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
47	Moving through imagined space: Mentally simulating locomotion during spatial description reading. <i>Acta Psychologica</i> , 2010, 134, 110-124.	1.5	24
48	Direct current brain stimulation enhances navigation efficiency in individuals with low spatial sense of direction. <i>NeuroReport</i> , 2014, 25, 1175-1179.	1.2	24
49	Characterizing Diagnostic Search Patterns in Digital Breast Pathology: Scanners and Drillers. <i>Journal of Digital Imaging</i> , 2018, 31, 32-41.	2.9	24
50	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
51	Metacognitive monitoring in visuospatial working memory.. <i>Psychology and Aging</i> , 2012, 27, 1099-1110.	1.6	23
52	Localization of Diagnostically Relevant Regions of Interest in Whole Slide Images. , 2014, , .		23
53	Endurance Exercise Enhances Emotional Valence and Emotion Regulation. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 398.	2.0	22
54	Spatial decision dynamics during wayfinding: intersections prompt the decision-making process. <i>Cognitive Research: Principles and Implications</i> , 2018, 3, .	2.0	22

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55	A Critical Review of Cranial Electrotherapy Stimulation for Neuromodulation in Clinical and Non-clinical Samples. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 625321.	2.0	22
56	Getting a Grip on Memory: Unilateral Hand Clenching Alters Episodic Recall. <i>PLoS ONE</i> , 2013, 8, e62474.	2.5	22
57	Happiness by association: Breadth of free association influences affective states. <i>Cognition</i> , 2013, 127, 93-98.	2.2	21
58	Stepping Into a Map: Initial Heading Direction Influences Spatial Memory Flexibility. <i>Cognitive Science</i> , 2014, 38, 275-302.	1.7	19
59	Breast cancer prognostic factors in the digital era: Comparison of Nottingham grade using whole slide images and glass slides. <i>Journal of Pathology Informatics</i> , 2019, 10, 11.	1.7	19
60	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
61	Cognitive reappraisal reduces perceived exertion during endurance exercise. <i>Motivation and Emotion</i> , 2018, 42, 482-496.	1.3	18
62	Camouflage pattern features interact with movement speed to determine human target detectability. <i>Applied Ergonomics</i> , 2019, 77, 50-57.	3.1	18
63	Eye-tracking for assessing medical image interpretation: A pilot feasibility study comparing novice vs expert cardiologists. <i>Perspectives on Medical Education</i> , 2022, 8, 65-73.	3.5	18
64	High and mighty: implicit associations between space and social status. <i>Frontiers in Psychology</i> , 2011, 2, 259.	2.1	17
65	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
66	Mitigating Cutaneous Sensation Differences During tDCS: Comparing Sham Versus Low Intensity Control Conditions. <i>Brain Stimulation</i> , 2014, 7, 832-835.	1.6	17
67	Region of interest identification and diagnostic agreement in breast pathology. <i>Modern Pathology</i> , 2016, 29, 1004-1011.	5.5	17
68	Interaction Strategies for Effective Augmented Reality Geo-Visualization: Insights from Spatial Cognition. <i>Human-Computer Interaction</i> , 2021, 36, 107-149.	4.4	17
69	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
70	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
71	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
72	Get in My Belly: Food Preferences Trigger Approach and Avoidant Postural Asymmetries. <i>PLoS ONE</i> , 2013, 8, e72432.	2.5	16

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73	Caffeine-induced physiological arousal accentuates global processing biases. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 99, 59-65.	2.9	15
74	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
75	Uncertainty promotes information-seeking actions, but what information?. <i>Cognitive Research: Principles and Implications</i> , 2020, 5, 42.	2.0	15
76	Levels of Detail in Descriptions and Depictions of Geographic Space. <i>Spatial Cognition and Computation</i> , 2007, 7, 227-266.	1.2	14
77	The Fabric of Thought: Priming Tactile Properties During Reading Influences Direct Tactile Perception. <i>Cognitive Science</i> , 2012, 36, 1449-1467.	1.7	14
78	The Angry Spotlight: Trait Anger and Selective Visual Attention to Rewards. <i>European Journal of Personality</i> , 2012, 26, 90-98.	3.1	14
79	Lateralized Difference in Tympanic Membrane Temperature: Emotion and Hemispheric Activity. <i>Frontiers in Psychology</i> , 2013, 4, 104.	2.1	14
80	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
81	Direct current stimulation of the left temporoparietal junction modulates dynamic humor appreciation. <i>NeuroReport</i> , 2015, 26, 988-993.	1.2	13
82	Visual salience and biological motion interact to determine camouflaged target detectability. <i>Applied Ergonomics</i> , 2018, 73, 1-6.	3.1	13
83	Eye tracking reveals expertise-related differences in the time-course of medical image inspection and diagnosis. <i>Journal of Medical Imaging</i> , 2020, 7, .	1.5	13
84	Planning routes around the world: International evidence for southern route preferences. <i>Journal of Environmental Psychology</i> , 2012, 32, 297-304.	5.1	12
85	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
86	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
87	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
88	Eye-tracking for human-centered mixed reality: promises and challenges. , 2020, , .		12
89	Modulating Spatial Processes and Navigation via Transcranial Electrical Stimulation: A Mini Review. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 649.	2.0	11
90	Modulating Applied Task Performance via Transcranial Electrical Stimulation. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 140.	2.0	11

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91	Strategies for Selecting Routes through Real-World Environments: Relative Topography, Initial Route Straightness, and Cardinal Direction. PLoS ONE, 2015, 10, e0124404.	2.5	11
92	Abstract Spatial Concept Priming Dynamically Influences Real-World Actions. Frontiers in Psychology, 2012, 3, 361.	2.1	10
93	Seeing the Forest or the Trees? Shifting Categorical Effects in Map Memory. Spatial Cognition and Computation, 2014, 14, 58-89.	1.2	9
94	Masked priming for the comparative evaluation of camouflage conspicuity. Applied Ergonomics, 2017, 62, 259-267.	3.1	9
95	Relationship between sustained unilateral hand clench, emotional state, line bisection performance, and prefrontal cortical activity: A functional near-infrared spectroscopy study. Laterality, 2017, 22, 671-689.	1.0	9
96	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
97	The Influence of Disease Severity of Preceding Clinical Cases on Pathologistsâ€™ Medical Decision Making. Medical Decision Making, 2017, 37, 91-100.	2.4	8
98	Pathology Traineesâ€™ Experience and Attitudes on Use of Digital Whole Slide Images. Academic Pathology, 2020, 7, 2374289520951922.	1.1	8
99	Caffeine increases false memory in nonhabitual consumers. Journal of Cognitive Psychology, 2012, 24, 420-427.	0.9	7
100	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
101	Toward Predicting Human Performance Outcomes From Wearable Technologies: A Computational Modeling Approach. Frontiers in Physiology, 2021, 12, 738973.	2.8	7
102	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
103	Paths with More Turns are Perceived as Longer: Misperceptions with Map-Based and Abstracted Path Stimuli. Perceptual and Motor Skills, 2015, 120, 438-461.	1.3	6
104	Targeted Right Medial Temporal Lobe tDCS and Associative Spatial and Non-Spatial Memory. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2018, 2, 287-297.	1.6	6
105	Look over there! Unilateral gaze increases geographical memory of the 50 United States. Brain and Cognition, 2012, 78, 59-62.	1.8	5
106	Caffeine Promotes Global Spatial Processing in Habitual and Non-Habitual Caffeine Consumers. Frontiers in Human Neuroscience, 2013, 7, 694.	2.0	5
107	Cautiously Caffeinated: Does Caffeine Modulate Inhibitory, Impulsive, or Risky Behavior?. Journal of Caffeine Research, 2017, 7, 7-17.	0.9	5
108	Cognitive load during route selection increases reliance on spatial heuristics. Quarterly Journal of Experimental Psychology, 2018, 71, 1045-1056.	1.1	5

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109	Superior categorical and coordinate spatial task performance in inconsistent-handers relative to consistent-right-handers. <i>Laterality</i> , 2019, 24, 274-288.	1.0	5
110	Non-invasive Brain Stimulation Effects on the Perceptual and Cognitive Processes Underlying Decision-making: a Mini Review. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2021, 5, 233-244.	1.6	5
111	The Cognition of Spatial Cognition: Domain-General within Domain-specific. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2013, , 77-116.	1.1	4
112	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
113	Living the high life: social status influences real estate decision making. <i>Journal of Applied Social Psychology</i> , 2014, 44, 611-621.	2.0	4
114	Risk-taking during wayfinding is modulated by external stressors and personality traits. <i>Spatial Cognition and Computation</i> , 2019, 19, 283-308.	1.2	4
115	Action compatibility in spatial knowledge developed through virtual navigation. <i>Psychological Research</i> , 2020, 84, 177-191.	1.7	4
116	Evaluating Camouflage Effectiveness Using Virtual Reality. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 2028-2032.	0.3	3
117	Increased Anger is Associated With Increased Hemispheric Asymmetry. <i>Journal of Nervous and Mental Disease</i> , 2011, 199, 716-720.	1.0	3
118	Cognitive focus affects spatial decisions under conditions of uncertainty. <i>Cognitive Processing</i> , 2020, 21, 287-302.	1.4	3
119	Spatial and Nonspatial Integration in Learning and Training with Multimedia Systems. , 2009, , 108-133.		3
120	Modulating Cognitiveâ€“Motor Multitasking with Commercial-off-the-Shelf Non-Invasive Brain Stimulation. <i>Brain Sciences</i> , 2022, 12, 180.	2.3	3
121	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
122	East is not right: Spatial compatibility differs between egocentric and cardinal retrieval. <i>Quarterly Journal of Experimental Psychology</i> , 2019, 72, 1250-1279.	1.1	2
123	Relationships between use of dietary supplements, caffeine and sensation seeking among college students. <i>Journal of American College Health</i> , 2019, 67, 688-697.	1.5	2
124	Exercise-Induced Physiological Arousal Biases Attention Toward Threatening Scene Details. <i>Psychological Reports</i> , 2019, 122, 79-95.	1.7	2
125	Targeting the anterior cingulate with bipolar and high-definition transcranial direct current stimulation. <i>NeuroReport</i> , 2020, 31, 346-351.	1.2	2
126	Melanoma in the blink of an eye: Pathologistsâ€™ rapid detection, classification, and localization of skin abnormalities. <i>Visual Cognition</i> , 2021, 29, 386-400.	1.6	2

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127	Analysis of Regions of Interest and Distractor Regions in Breast Biopsy Images. , 2021, , .		2
128	An analysis of pathologistsâ€™ viewing processes as they diagnose whole slide digital images. Journal of Pathology Informatics, 2022, 13, 100104.	1.7	2
129	Acute exercise suppresses judgments of facial emotion intensity. Motivation and Emotion, 2013, 37, 787-798.	1.3	1
130	Variable transmission lens influences on the dynamics of pupillary light reflexes. Ergonomics, 2013, 56, 1745-1753.	2.1	1
131	Characterizing the Cognitive Impact of Tangible Augmented Reality. Lecture Notes in Computer Science, 2019, , 416-427.	1.3	1
132	Categorical and coordinate spatial task performance in inconsistent-handers versus consistent-right-handers: part II. Cognitive Processing, 2019, 20, 441-446.	1.4	1
133	When Anger Motivates: Approach States Selectively Influence Running Performance. Frontiers in Psychology, 2020, 11, 1663.	2.1	1
134	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
135	Pathologist pupil dilation reflects difficulty in diagnosing digital breast tissue biopsies. Journal of Vision, 2021, 21, 2666.	0.3	1
136	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
137	Hemispheric Bases for Emotion and Memory. Frontiers in Human Neuroscience, 2014, 8, 997.	2.0	0
138	Brief, prior, exposure to red decreases categorical and coordinate spatial task performance. Brain and Cognition, 2020, 142, 105571.	1.8	0
139	Identifying optimal graphical level of detail to support orienting with 3D geo-visualizations. Spatial Cognition and Computation, 0, , 1-26.	1.2	0
140	The Social Connection in Mental Representations of Space: Explicit and Implicit Evidence. Lecture Notes in Computer Science, 2011, , 231-244.	1.3	0