

# James T Townsend

## List of Publications by Year in descending order

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117  
papers

9,579  
citations

61984

43  
h-index

38395

95  
g-index

126  
all docs

126  
docs citations

126  
times ranked

3266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decision field theory: A dynamic-cognitive approach to decision making in an uncertain environment.. Psychological Review, 1993, 100, 432-459.	3.8	1,634
2	Varieties of perceptual independence.. Psychological Review, 1986, 93, 154-179.	3.8	825
3	Multialternative decision field theory: A dynamic connectionst model of decision making.. Psychological Review, 2001, 108, 370-392.	3.8	614
4	Serial vs. Parallel Processing: Sometimes They Look like Tweedledum and Tweedledee but they can (and) Tj ETQq0 0.0 rgBT /Overlock 10	3.3	533
5	Quantum dynamics of human decision-making. Journal of Mathematical Psychology, 2006, 50, 220-241.	1.8	433
6	Spatio-temporal Properties of Elementary Perception: An Investigation of Parallel, Serial, and Coactive Theories. Journal of Mathematical Psychology, 1995, 39, 321-359.	1.8	423
7	Theoretical analysis of an alphabetic confusion matrix. Perception & Psychophysics, 1971, 9, 40-50.	2.3	417
8	A note on the identifiability of parallel and serial processes. Perception & Psychophysics, 1971, 10, 161-163.	2.3	371
9	A Theory of Interactive Parallel Processing: New Capacity Measures and Predictions for a Response Time Inequality Series.. Psychological Review, 2004, 111, 1003-1035.	3.8	244
10	Measurement scales and statistics: The misconception misconceived.. Psychological Bulletin, 1984, 96, 394-401.	6.1	171
11	Serial and within-stage independent parallel model equivalence on the minimum completion time. Journal of Mathematical Psychology, 1976, 14, 219-238.	1.8	158
12	Truth and consequences of ordinal differences in statistical distributions: Toward a theory of hierarchical inference.. Psychological Bulletin, 1990, 108, 551-567.	6.1	155
13	Toward the trichotomy method of reaction times: Laying the foundation of stochastic mental networks. Journal of Mathematical Psychology, 1989, 33, 309-327.	1.8	152
14	Uncovering mental processes with factorial experiments. Journal of Mathematical Psychology, 1984, 28, 363-400.	1.8	151
15	A trichotomy: Interactions of factors prolonging sequential and concurrent mental processes in stochastic discrete mental (PERT) networks. Journal of Mathematical Psychology, 1989, 33, 328-347.	1.8	146
16	Fundamental derivations from decision field theory. Mathematical Social Sciences, 1992, 23, 255-282.	0.5	143
17	The serial-parallel dilemma: A case study in a linkage of theory and method. Psychonomic Bulletin and Review, 2004, 11, 391-418.	2.8	123
18	Workload capacity spaces: A unified methodology for response time measures of efficiency as workload is varied. Psychonomic Bulletin and Review, 2011, 18, 659-681.	2.8	112

#	ARTICLE	IF	CITATIONS
19	Nice guys finish fast and bad guys finish last: Facilitatory vs. inhibitory interaction in parallel systems. <i>Journal of Mathematical Psychology</i> , 2011, 55, 176-190.	1.8	105
20	Comparing parallel and serial models: Theory and implementation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1980, 6, 330-354.	0.9	102
21	Statistical measures for workload capacity analysis. <i>Journal of Mathematical Psychology</i> , 2012, 56, 341-355.	1.8	101
22	Decomposing the reaction time distribution: Pure insertion and selective influence revisited. <i>Journal of Mathematical Psychology</i> , 1980, 21, 93-123.	1.8	96
23	Search reaction time for single targets in multiletter stimuli with brief visual displays. <i>Memory and Cognition</i> , 1973, 1, 319-332.	1.6	93
24	Basic Response Time Tools for Studying General Processing Capacity in Attention, Perception, and Cognition. <i>Journal of General Psychology</i> , 2000, 127, 67-99.	2.8	87
25	Self-terminating versus exhaustive processes in rapid visual and memory search: An evaluative review. <i>Perception &amp; Psychophysics</i> , 1993, 53, 563-580.	2.3	85
26	Resting on laurels: The effects of discrete progress markers as subgoals on task performance and preferences.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2008, 34, 1158-1171.	0.9	79
27	Systems factorial technology with R. <i>Behavior Research Methods</i> , 2014, 46, 307-330.	4.0	78
28	Information available In brief tactile presentations. <i>Perception &amp; Psychophysics</i> , 1966, 1, 273-283.	2.3	75
29	Parallel versus serial processing and individual differences in high-speed search in human memory. <i>Perception &amp; Psychophysics</i> , 2004, 66, 953-962.	2.3	66
30	Stochastic Dependencies in Parallel and Serial Models: Effects on Systems Factorial Interactions. <i>Journal of Mathematical Psychology</i> , 1994, 38, 1-34.	1.8	65
31	Building bridges between neural models and complex decision making behaviour. <i>Neural Networks</i> , 2006, 19, 1047-1058.	5.9	65
32	Serial exhaustive models can violate the race model inequality: Implications for architecture and capacity.. <i>Psychological Review</i> , 1997, 104, 595-602.	3.8	63
33	Studying visual search using systems factorial methodology with target-distractor similarity as the factor. <i>Perception &amp; Psychophysics</i> , 2008, 70, 583-603.	2.3	63
34	An accuracyâ€“response time capacity assessment function that measures performance against standard parallel predictions.. <i>Psychological Review</i> , 2012, 119, 500-516.	3.8	62
35	Information-processing architectures in multidimensional classification: A validation test of the systems factorial technology.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008, 34, 356-375.	0.9	61
36	Implications of marginal and conditional detection parameters for the separabilities and independence of perceptual dimensions. <i>Journal of Mathematical Psychology</i> , 1992, 36, 325-374.	1.8	60

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37	An experimental and theoretical investigation of the constant-ratio rule and other models of visual letter confusion. <i>Journal of Mathematical Psychology</i> , 1982, 25, 119-162.	1.8	56
38	Comparing perception of Stroop stimuli in focused versus divided attention paradigms: Evidence for dramatic processing differences. <i>Cognition</i> , 2010, 114, 129-150.	2.2	56
39	Don't be fazed by PHASER: Beginning exploration of a cyclical motivational system. <i>Behavior Research Methods</i> , 1992, 24, 219-227.	1.3	55
40	The statistical properties of the Survivor Interaction Contrast. <i>Journal of Mathematical Psychology</i> , 2010, 54, 446-453.	1.8	51
41	Some normative data on lip-reading skills (L). <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1-4.	1.1	47
42	Modeling feature perception in brief displays with evidence for positive interdependencies. <i>Perception &amp; Psychophysics</i> , 1984, 36, 35-49.	2.3	46
43	Perceptual sampling of orthogonal straight line features. <i>Psychological Research</i> , 1981, 43, 259-275.	1.7	45
44	Some characteristics of visual whole report behavior. <i>Acta Psychologica</i> , 1981, 47, 149-173.	1.5	41
45	Systems Factorial Technology provides new insights on global-local information processing in autism spectrum disorders. <i>Journal of Mathematical Psychology</i> , 2010, 54, 53-72.	1.8	41
46	Experimental test of contemporary mathematical models of visual letter recognition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1982, 8, 834-864.	0.9	40
47	Exploring the relations between categorization and decision making with regard to realistic face stimuli. <i>Pragmatics and Cognition</i> , 2000, 8, 83-105.	0.4	40
48	On the costs and benefits of faces and words: Process characteristics of feature search in highly meaningful stimuli.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2006, 32, 755-779.	0.9	40
49	Feature sensitivity, bias, and interdependencies as a function of energy and payoffs. <i>Perception &amp; Psychophysics</i> , 1988, 43, 575-591.	2.3	37
50	Information-processing alternatives to holistic perception: Identifying the mechanisms of secondary-level holism within a categorization paradigm.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2010, 36, 1290-1313.	0.9	36
51	General recognition theory extended to include response times: Predictions for a class of parallel systems. <i>Journal of Mathematical Psychology</i> , 2012, 56, 476-494.	1.8	35
52	Mathematical models of recognition and confusion in psychology. <i>Mathematical Social Sciences</i> , 1983, 4, 25-71.	0.5	32
53	A stochastic theory of matching processes. <i>Journal of Mathematical Psychology</i> , 1976, 14, 1-52.	1.8	31
54	Foundations of psychological assessment: Implications for cognitive assessment in clinical science.. <i>Psychological Assessment</i> , 1998, 10, 316-330.	1.5	31

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55	Tactile perception of sequentially presented spatial patterns. <i>Perception &amp; Psychophysics</i> , 1966, 1, 125-130.	2.3	29
56	A Visual Introduction to Dynamical Systems Theory for Psychology. <i>American Journal of Psychology</i> , 1994, 107, 117.	0.3	29
57	Spatial frequencies in short-term memory for faces: A test of three frequency-dependent hypotheses. <i>Memory and Cognition</i> , 2000, 28, 125-142.	1.6	28
58	Parallel Processing Response Times and Experimental Determination of the Stopping Rule. <i>Journal of Mathematical Psychology</i> , 1997, 41, 392-397.	1.8	27
59	A new perspective on visual word processing efficiency. <i>Acta Psychologica</i> , 2014, 145, 118-127.	1.5	27
60	Some Behavioral and Neurobiological Constraints on Theories of Audiovisual Speech Integration: A Review and Suggestions for New Directions. <i>Seeing and Perceiving</i> , 2011, 24, 513-539.	0.3	25
61	Mathematical psychology: Prospects for the 21st century: A guest editorial. <i>Journal of Mathematical Psychology</i> , 2008, 52, 269-280.	1.8	24
62	An extension of SIC predictions to the Wiener coactive model. <i>Journal of Mathematical Psychology</i> , 2011, 55, 267-270.	1.8	24
63	Consequences of base time for redundant signals experiments. <i>Journal of Mathematical Psychology</i> , 2007, 51, 242-265.	1.8	23
64	An Assessment of Behavioral Dynamic Information Processing Measures in Audiovisual Speech Perception. <i>Frontiers in Psychology</i> , 2011, 2, 238.	2.1	23
65	Functional principal components analysis of workload capacity functions. <i>Behavior Research Methods</i> , 2013, 45, 1048-1057.	4.0	22
66	A test of visual feature sampling independence with orthogonal straight lines. <i>Bulletin of the Psychonomic Society</i> , 1980, 15, 163-166.	0.2	20
67	Where similarity beats redundancy: The importance of context, higher order similarity, and response assignment.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008, 34, 1441-1463.	0.9	20
68	Evaluating perceptual integration: uniting response-time- and accuracy-based methodologies. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 659-680.	1.3	18
69	Independence and separability in the perception of complex nonspeech sounds. <i>Attention, Perception, and Psychophysics</i> , 2009, 71, 1900-1915.	1.3	17
70	Contrast Effects or Loss Aversion? Comment on Usher and McClelland (2004).. <i>Psychological Review</i> , 2005, 112, 253-255.	3.8	14
71	A measure for assessing the effects of audiovisual speech integration. <i>Behavior Research Methods</i> , 2014, 46, 406-415.	4.0	14
72	Survivor interaction contrast wiggle predictions of parallel and serial models for an arbitrary number of processes. <i>Journal of Mathematical Psychology</i> , 2014, 58, 21-32.	1.8	13

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73	Quantitative Response Time Technology for Measuring Cognitive-Processing Capacity in Clinical Studies.. , 2007, , 207-238.		13
74	On the Need for A General Quantitative Theory of Pattern Similarity. <i>Advances in Psychology</i> , 1993, 99, 297-368.	0.1	11
75	A new perspective on binaural integration using response time methodology: super capacity revealed in conditions of binaural masking release. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 641.	2.0	11
76	A clarification of some current multiplicative confusion models. <i>Journal of Mathematical Psychology</i> , 1978, 18, 25-38.	1.8	10
77	Independent Sampling vs Interitem Dependencies in Whole Report Processing: Contributions of Processing Architecture and Variable Attention. <i>Journal of Mathematical Psychology</i> , 2001, 45, 283-323.	1.8	10
78	Variability of the MAX and MIN Statistic: A Theory of the Quantile Spread as a Function of Sample Size. <i>Psychometrika</i> , 2005, 70, 759-772.	2.1	10
79	Can two dots form a Gestalt? Measuring emergent features with the capacity coefficient. <i>Vision Research</i> , 2016, 126, 19-33.	1.4	10
80	A clarification of self-terminating versus exhaustive variances in serial and parallel models. <i>Perception &amp; Psychophysics</i> , 2001, 63, 1101-1106.	2.3	9
81	Semiparametric Bayesian approaches to systems factorial technology. <i>Journal of Mathematical Psychology</i> , 2016, 75, 68-85.	1.8	9
82	Interactive Parallel Models: No Virginia, Violation of Miller's Race Inequality does not Imply Coactivation and Yes Virginia, Context Invariance is Testable. <i>The Quantitative Methods for Psychology</i> , 2020, 16, 192-212.	0.9	9
83	The relationship of variance to interaction contrast in parallel systems factorial technology. <i>British Journal of Mathematical and Statistical Psychology</i> , 1996, 49, 211-223.	1.4	7
84	The resurrection of Tweedledum and Tweedledee: Bimodality cannot distinguish serial and parallel processes. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 1165-1173.	2.8	7
85	On mimicry among sequential sampling models. <i>Journal of Mathematical Psychology</i> , 2015, 68-69, 37-48.	1.8	7
86	The McGurk effect: An investigation of attentional capacity employing response times. <i>Attention, Perception, and Psychophysics</i> , 2016, 78, 1712-1727.	1.3	7
87	Methodology and Statistics in the Behavioral Sciences The Old and the New. <i>Psychological Science</i> , 1994, 5, 321-325.	3.3	6
88	Reprint of "Survivor interaction contrast wiggles predictions of parallel and serial models for an arbitrary number of processes". <i>Journal of Mathematical Psychology</i> , 2014, 59, 82-94.	1.8	6
89	A show about nothing: No-signal processes in systems factorial technology.. <i>Psychological Review</i> , 2021, 128, 187-201.	3.8	6
90	A Systems Approach to Parallel-Serial Testability and Visual Feature Processing. <i>Advances in Psychology</i> , 1983, 11, 166-191.	0.1	5

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91	Diathesis stress model or "Just So" story?. Behavioral and Brain Sciences, 1995, 18, 565-566.	0.7	5
92	Dyslexia and configural perception of character sequences. Frontiers in Psychology, 2015, 6, 482.	2.1	5
93	Experimental Discrimination of the World's Simplest and Most Antipodal Models: The Parallel-Serial Issue. Advanced Series on Mathematical Psychology, 2011, , 271-302.	0.7	5
94	A Note on Drawing Conclusions in the Study of Visual Search and the Use of Slopes in Particular. I-Perception, 2016, 7, 204166951667422.	1.4	4
95	Psychology and Mathematics. , 1990, , 223-248.		3
96	Unified theories and theories that mimic each other's predictions. Behavioral and Brain Sciences, 1992, 15, 458-459.	0.7	3
97	Designs for and Analyses of Response Time Experiments. , 2013, , .		3
98	A theoretical study of process dependence for critical statistics in standard serial models and standard parallel models. Journal of Mathematical Psychology, 2019, 92, 102277.	1.8	3
99	Selective Influence and Classificatory Separability (Perceptual Separability) in Perception and Cognition: Similarities, Distinctions, and Synthesis. , 2017, , 93-114.		3
100	Moving models of motion forward: Explication and a new concept. Behavioral and Brain Sciences, 1995, 18, 751-753.	0.7	2
101	Diagonal $d^2$ does not (always) diagnose failure of separability: An addendum to Kingston, Diehl, Kirk, and Castleman (2008). Journal of Phonetics, 2009, 37, 339-343.	1.2	2
102	Psychology: Toward the mathematical inner man. Behavioral and Brain Sciences, 1984, 7, 539-540.	0.7	1
103	Winning "20 Questions" with mathematical models. Behavioral and Brain Sciences, 1989, 12, 775-776.	0.7	1
104	Modeling change in biology and psychology. Behavioral and Brain Sciences, 1991, 14, 108-108.	0.7	1
105	Phasing into PHASER. Behavior Research Methods, 1991, 23, 77-78.	1.3	1
106	A Tome on Tests and Extensions of the FLMP. American Journal of Psychology, 1999, 112, 449.	0.3	1
107	Can the wrong horse win: The ability of race models to predict fast or slow errors. Journal of Mathematical Psychology, 2020, 97, 102360.	1.8	1
108	Information Processing Architectures: Fundamental Issues. , 2015, , 77-82.		1

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109	Effects of shifts in response preferences on characteristics of representation and real-time processing: An application to the Hering illusion. <i>Attention, Perception, and Psychophysics</i> , 2022, 84, 101-123.	1.3	1
110	Modeling physiological-behavioral correlations. <i>Behavioral and Brain Sciences</i> , 1979, 2, 284-284.	0.7	0
111	Learning is critical, not implementation versus algorithm. <i>Behavioral and Brain Sciences</i> , 1987, 10, 497-497.	0.7	0
112	Editorial: Modeling Individual Differences in Perceptual Decision Making. <i>Frontiers in Psychology</i> , 2016, 7, 1602.	2.1	0
113	A beginning quantitative taxonomy of cognitive activation systems and application to continuous flow processes. <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 748-762.	1.3	0
114	Simulation and Analysis of Perceptual-Motor Skill Training. <i>Proceedings of the Human Factors Society Annual Meeting</i> , 1992, 36, 1264-1268.	0.1	0
115	A concurrent investigation of perceptual separability and process arrangement using perceptually separable stimuli. <i>Journal of Vision</i> , 2017, 17, 1257.	0.3	0
116	Varieties of Selective Influence: Toward a More Complete Taxonomy and Implications for Systems Identification. <i>Mathematics</i> , 2022, 10, 1059.	2.2	0
117	EXPRESS: Don't be a Square: The Processing Mechanisms Characterizing the Elemental Dimensions of Width and Height.. <i>Quarterly Journal of Experimental Psychology</i> , 2022, , 174702182210969.	1.1	0