

# James T Townsend

## List of Publications by Year in descending order

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117  
papers

9,579  
citations

71004

43  
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43601

95  
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126  
all docs

126  
docs citations

126  
times ranked

3779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Varieties of Selective Influence: Toward a More Complete Taxonomy and Implications for Systems Identification. <i>Mathematics</i> , 2022, 10, 1059.	1.1	0
2	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.	0.7	1
3	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.	0.6	0
4	A beginning quantitative taxonomy of cognitive activation systems and application to continuous flow processes. <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 748-762.	0.7	0
5	A show about nothing: No-signal processes in systems factorial technology.. <i>Psychological Review</i> , 2021, 128, 187-201.	2.7	6
6	Can the wrong horse win: The ability of race models to predict fast or slow errors. <i>Journal of Mathematical Psychology</i> , 2020, 97, 102360.	1.0	1
7	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.	0.6	9
8	A theoretical study of process dependence for critical statistics in standard serial models and standard parallel models. <i>Journal of Mathematical Psychology</i> , 2019, 92, 102277.	1.0	3
9	Selective Influence and Classificatory Separability (Perceptual Separability) in Perception and Cognition: Similarities, Distinctions, and Synthesis. , 2017, , 93-114.		3
10	A concurrent investigation of perceptual separability and process arrangement using perceptually separable stimuli. <i>Journal of Vision</i> , 2017, 17, 1257.	0.1	0
11	Editorial: Modeling Individual Differences in Perceptual Decision Making. <i>Frontiers in Psychology</i> , 2016, 7, 1602.	1.1	0
12	A Note on Drawing Conclusions in the Study of Visual Search and the Use of Slopes in Particular. <i>I-Perception</i> , 2016, 7, 204166951667422.	0.8	4
13	Semiparametric Bayesian approaches to systems factorial technology. <i>Journal of Mathematical Psychology</i> , 2016, 75, 68-85.	1.0	9
14	The McGurk effect: An investigation of attentional capacity employing response times. <i>Attention, Perception, and Psychophysics</i> , 2016, 78, 1712-1727.	0.7	7
15	Can two dots form a Gestalt? Measuring emergent features with the capacity coefficient. <i>Vision Research</i> , 2016, 126, 19-33.	0.7	10
16	Dyslexia and configural perception of character sequences. <i>Frontiers in Psychology</i> , 2015, 6, 482.	1.1	5
17	On mimicry among sequential sampling models. <i>Journal of Mathematical Psychology</i> , 2015, 68-69, 37-48.	1.0	7
18	Evaluating perceptual integration: uniting response-time- and accuracy-based methodologies. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 659-680.	0.7	18

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19	Information Processing Architectures: Fundamental Issues. , 2015, , 77-82.		1
20	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.	1.0	11
21	A new perspective on visual word processing efficiency. <i>Acta Psychologica</i> , 2014, 145, 118-127.	0.7	27
22	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.	1.0	13
23	A measure for assessing the effects of audiovisual speech integration. <i>Behavior Research Methods</i> , 2014, 46, 406-415.	2.3	14
24	The resurrection of Tweedledum and Tweedledee: Bimodality cannot distinguish serial and parallel processes. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 1165-1173.	1.4	7
25	Systems factorial technology with R. <i>Behavior Research Methods</i> , 2014, 46, 307-330.	2.3	78
26	Reprint of “Survivor interaction contrast wiggle predictions of parallel and serial models for an arbitrary number of processes” • <i>Journal of Mathematical Psychology</i> , 2014, 59, 82-94.	1.0	6
27	Functional principal components analysis of workload capacity functions. <i>Behavior Research Methods</i> , 2013, 45, 1048-1057.	2.3	22
28	Designs for and Analyses of Response Time Experiments. , 2013, , .		3
29	An accuracy“response time capacity assessment function that measures performance against standard parallel predictions.. <i>Psychological Review</i> , 2012, 119, 500-516.	2.7	62
30	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.	1.0	35
31	Statistical measures for workload capacity analysis. <i>Journal of Mathematical Psychology</i> , 2012, 56, 341-355.	1.0	101
32	An Assessment of Behavioral Dynamic Information Processing Measures in Audiovisual Speech Perception. <i>Frontiers in Psychology</i> , 2011, 2, 238.	1.1	23
33	Workload capacity spaces: A unified methodology for response time measures of efficiency as workload is varied. <i>Psychonomic Bulletin and Review</i> , 2011, 18, 659-681.	1.4	112
34	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.	1.0	105
35	An extension of SIC predictions to the Wiener coactive model. <i>Journal of Mathematical Psychology</i> , 2011, 55, 267-270.	1.0	24
36	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.	0.4	25

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37	Some normative data on lip-reading skills (L). <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1-4.	0.5	47
38	Experimental Discrimination of the World's Simplest and Most Antipodal Models: The Parallel-Serial Issue. <i>Advanced Series on Mathematical Psychology</i> , 2011, , 271-302.	0.7	5
39	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.	0.7	36
40	Comparing perception of Stroop stimuli in focused versus divided attention paradigms: Evidence for dramatic processing differences. <i>Cognition</i> , 2010, 114, 129-150.	1.1	56
41	Systems Factorial Technology provides new insights on globalâ€œlocal information processing in autism spectrum disorders. <i>Journal of Mathematical Psychology</i> , 2010, 54, 53-72.	1.0	41
42	The statistical properties of the Survivor Interaction Contrast. <i>Journal of Mathematical Psychology</i> , 2010, 54, 446-453.	1.0	51
43	Diagonal $d^2$ does not (always) diagnose failure of separability: An addendum to Kingston, Diehl, Kirk, and Castleman (2008). <i>Journal of Phonetics</i> , 2009, 37, 339-343.	0.6	2
44	Independence and separability in the perception of complex nonspeech sounds. <i>Attention, Perception, and Psychophysics</i> , 2009, 71, 1900-1915.	0.7	17
45	Mathematical psychology: Prospects for the 21st century: A guest editorial. <i>Journal of Mathematical Psychology</i> , 2008, 52, 269-280.	1.0	24
46	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
47	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.	0.7	79
48	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.	0.7	61
49	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.	0.7	20
50	Consequences of base time for redundant signals experiments. <i>Journal of Mathematical Psychology</i> , 2007, 51, 242-265.	1.0	23
51	Quantitative Response Time Technology for Measuring Cognitive-Processing Capacity in Clinical Studies.. , 2007, , 207-238.		13
52	Building bridges between neural models and complex decision making behaviour. <i>Neural Networks</i> , 2006, 19, 1047-1058.	3.3	65
53	Quantum dynamics of human decision-making. <i>Journal of Mathematical Psychology</i> , 2006, 50, 220-241.	1.0	433
54	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.	0.7	40

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55	Contrast Effects or Loss Aversion? Comment on Usher and McClelland (2004).. Psychological Review, 2005, 112, 253-255.	2.7	14
56	Variability of the MAX and MIN Statistic: A Theory of the Quantile Spread as a Function of Sample Size. Psychometrika, 2005, 70, 759-772.	1.2	10
57	Parallel versus serial processing and individual differences in high-speed search in human memory. Perception & Psychophysics, 2004, 66, 953-962.	2.3	66
58	The serial-parallel dilemma: A case study in a linkage of theory and method. Psychonomic Bulletin and Review, 2004, 11, 391-418.	1.4	123
59	A Theory of Interactive Parallel Processing: New Capacity Measures and Predictions for a Response Time Inequality Series.. Psychological Review, 2004, 111, 1003-1035.	2.7	244
60	Multialternative decision field theory: A dynamic connectionst model of decision making.. Psychological Review, 2001, 108, 370-392.	2.7	614
61	Independent Sampling vs Interitem Dependencies in Whole Report Processing: Contributions of Processing Architecture and Variable Attention. Journal of Mathematical Psychology, 2001, 45, 283-323.	1.0	10
62	A clarification of self-terminating versus exhaustive variances in serial and parallel models. Perception & Psychophysics, 2001, 63, 1101-1106.	2.3	9
63	Spatial frequencies in short-term memory for faces: A test of three frequency-dependent hypotheses. Memory and Cognition, 2000, 28, 125-142.	0.9	28
64	Exploring the relations between categorization and decision making with regard to realistic face stimuli. Pragmatics and Cognition, 2000, 8, 83-105.	0.2	40
65	Basic Response Time Tools for Studying General Processing Capacity in Attention, Perception, and Cognition. Journal of General Psychology, 2000, 127, 67-99.	1.6	87
66	A Tome on Tests and Extensions of the FLMP. American Journal of Psychology, 1999, 112, 449.	0.5	1
67	Foundations of psychological assessment: Implications for cognitive assessment in clinical science.. Psychological Assessment, 1998, 10, 316-330.	1.2	31
68	Serial exhaustive models can violate the race model inequality: Implications for architecture and capacity.. Psychological Review, 1997, 104, 595-602.	2.7	63
69	Parallel Processing Response Times and Experimental Determination of the Stopping Rule. Journal of Mathematical Psychology, 1997, 41, 392-397.	1.0	27
70	The relationship of variance to interaction contrast in parallel systems factorial technology. British Journal of Mathematical and Statistical Psychology, 1996, 49, 211-223.	1.0	7
71	Diathesis stress model or "œJust So" story?. Behavioral and Brain Sciences, 1995, 18, 565-566.	0.4	5
72	Moving models of motion forward: Explication and a new concept. Behavioral and Brain Sciences, 1995, 18, 751-753.	0.4	2

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73	Spatio-temporal Properties of Elementary Perception: An Investigation of Parallel, Serial, and Coactive Theories. <i>Journal of Mathematical Psychology</i> , 1995, 39, 321-359.	1.0	423
74	Methodology and Statistics in the Behavioral Sciences The Old and the New. <i>Psychological Science</i> , 1994, 5, 321-325.	1.8	6
75	A Visual Introduction to Dynamical Systems Theory for Psychology. <i>American Journal of Psychology</i> , 1994, 107, 117.	0.5	29
76	Stochastic Dependencies in Parallel and Serial Models: Effects on Systems Factorial Interactions. <i>Journal of Mathematical Psychology</i> , 1994, 38, 1-34.	1.0	65
77	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
78	Decision field theory: A dynamic-cognitive approach to decision making in an uncertain environment.. <i>Psychological Review</i> , 1993, 100, 432-459.	2.7	1,634
79	On the Need for A General Quantitative Theory of Pattern Similarity. <i>Advances in Psychology</i> , 1993, 99, 297-368.	0.1	11
80	Unified theories and theories that mimic each other's predictions. <i>Behavioral and Brain Sciences</i> , 1992, 15, 458-459.	0.4	3
81	Fundamental derivations from decision field theory. <i>Mathematical Social Sciences</i> , 1992, 23, 255-282.	0.3	143
82	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.	1.0	60
83	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
84	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
85	Modeling change in biology and psychology. <i>Behavioral and Brain Sciences</i> , 1991, 14, 108-108.	0.4	1
86	Phasing into PHASER. <i>Behavior Research Methods</i> , 1991, 23, 77-78.	1.3	1
87	Psychology and Mathematics. , 1990, , 223-248.		3
88	Truth and consequences of ordinal differences in statistical distributions: Toward a theory of hierarchical inference.. <i>Psychological Bulletin</i> , 1990, 108, 551-567.	5.5	155
89	Serial vs. Parallel Processing: Sometimes They Look like Tweedledum and Tweedledee but they can (and) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	538
90	Toward the trichotomy method of reaction times: Laying the foundation of stochastic mental networks. <i>Journal of Mathematical Psychology</i> , 1989, 33, 309-327.	1.0	152

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91	A trichotomy: Interactions of factors prolonging sequential and concurrent mental processes in stochastic discrete mental (PERT) networks. <i>Journal of Mathematical Psychology</i> , 1989, 33, 328-347.	1.0	146
92	Winning "20 Questions" with mathematical models. <i>Behavioral and Brain Sciences</i> , 1989, 12, 775-776.	0.4	1
93	Feature sensitivity, bias, and interdependencies as a function of energy and payoffs. <i>Perception &amp; Psychophysics</i> , 1988, 43, 575-591.	2.3	37
94	Learning is critical, not implementation versus algorithm. <i>Behavioral and Brain Sciences</i> , 1987, 10, 497-497.	0.4	0
95	Varieties of perceptual independence.. <i>Psychological Review</i> , 1986, 93, 154-179.	2.7	825
96	Uncovering mental processes with factorial experiments. <i>Journal of Mathematical Psychology</i> , 1984, 28, 363-400.	1.0	151
97	Modeling feature perception in brief displays with evidence for positive interdependencies. <i>Perception &amp; Psychophysics</i> , 1984, 36, 35-49.	2.3	46
98	Psychology: Toward the mathematical inner man. <i>Behavioral and Brain Sciences</i> , 1984, 7, 539-540.	0.4	1
99	Measurement scales and statistics: The misconception misconceived.. <i>Psychological Bulletin</i> , 1984, 96, 394-401.	5.5	171
100	Mathematical models of recognition and confusion in psychology. <i>Mathematical Social Sciences</i> , 1983, 4, 25-71.	0.3	32
101	A Systems Approach to Parallel-Serial Testability and Visual Feature Processing. <i>Advances in Psychology</i> , 1983, 11, 166-191.	0.1	5
102	Experimental test of contemporary mathematical models of visual letter recognition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1982, 8, 834-864.	0.7	40
103	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.	1.0	56
104	Perceptual sampling of orthogonal straight line features. <i>Psychological Research</i> , 1981, 43, 259-275.	1.0	45
105	Some characteristics of visual whole report behavior. <i>Acta Psychologica</i> , 1981, 47, 149-173.	0.7	41
106	Comparing parallel and serial models: Theory and implementation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1980, 6, 330-354.	0.7	102
107	Decomposing the reaction time distribution: Pure insertion and selective influence revisited. <i>Journal of Mathematical Psychology</i> , 1980, 21, 93-123.	1.0	96
108	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

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109	Modeling physiological-behavioral correlations. Behavioral and Brain Sciences, 1979, 2, 284-284.	0.4	0
110	A clarification of some current multiplicative confusion models. Journal of Mathematical Psychology, 1978, 18, 25-38.	1.0	10
111	Serial and within-stage independent parallel model equivalence on the minimum completion time. Journal of Mathematical Psychology, 1976, 14, 219-238.	1.0	158
112	A stochastic theory of matching processes. Journal of Mathematical Psychology, 1976, 14, 1-52.	1.0	31
113	Search reaction time for single targets in multiletter stimuli with brief visual displays. Memory and Cognition, 1973, 1, 319-332.	0.9	93
114	A note on the identifiability of parallel and serial processes. Perception & Psychophysics, 1971, 10, 161-163.	2.3	371
115	Theoretical analysis of an alphabetic confusion matrix. Perception & Psychophysics, 1971, 9, 40-50.	2.3	417
116	Information available in brief tactile presentations. Perception & Psychophysics, 1966, 1, 273-283.	2.3	75
117	Tactile perception of sequentially presented spatial patterns. Perception & Psychophysics, 1966, 1, 125-130.	2.3	29