

Timothy A Shahan

List of Publications by Year in descending order

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114
papers

3,106
citations

172457

29
h-index

189892

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115
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115
docs citations

115
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	AN EVALUATION OF PERSISTENCE OF TREATMENT EFFECTS DURING LONG-TERM TREATMENT OF DESTRUCTIVE BEHAVIOR. <i>Journal of the Experimental Analysis of Behavior</i> , 2011, 96, 261-282.	1.1	166
2	Comparing the reinforcing efficacy of nicotine containing and de-nicotinized cigarettes: a behavioral economic analysis. <i>Psychopharmacology</i> , 1999, 147, 210-216.	3.1	152
3	Behavioral momentum and relapse of extinguished operant responding. <i>Learning and Behavior</i> , 2009, 37, 357-364.	1.0	128
4	BEHAVIORAL MOMENTUM THEORY: EQUATIONS AND APPLICATIONS. <i>Journal of Applied Behavior Analysis</i> , 2011, 44, 877-895.	2.7	107
5	A MODEL OF RESURGENCE BASED ON BEHAVIORAL MOMENTUM THEORY. <i>Journal of the Experimental Analysis of Behavior</i> , 2011, 95, 91-108.	1.1	105
6	Resurgence as Choice. <i>Behavioural Processes</i> , 2017, 141, 100-127.	1.1	98
7	Resurgence of alcohol seeking produced by discontinuing non-drug reinforcement as an animal model of drug relapse. <i>Behavioural Pharmacology</i> , 2006, 17, 369-374.	1.7	90
8	Effects of high, low, and thinning rates of alternative reinforcement on response elimination and resurgence. <i>Journal of the Experimental Analysis of Behavior</i> , 2013, 100, 102-116.	1.1	87
9	Extinction, relapse, and behavioral momentum. <i>Behavioural Processes</i> , 2010, 84, 400-411.	1.1	86
10	Sensitivity of nicotine-containing and de-nicotinized cigarette consumption to alternative non-drug reinforcement: a behavioral economic analysis. <i>Behavioural Pharmacology</i> , 2001, 12, 277-284.	1.7	81
11	Nicotine gum as a substitute for cigarettes: a behavioral economic analysis. <i>Behavioural Pharmacology</i> , 2000, 11, 71-79.	1.7	78
12	CONDITIONED REINFORCEMENT AND RESPONSE STRENGTH. <i>Journal of the Experimental Analysis of Behavior</i> , 2010, 93, 269-289.	1.1	77
13	Behavioral momentum theory fails to account for the effects of reinforcement rate on resurgence. <i>Journal of the Experimental Analysis of Behavior</i> , 2016, 105, 375-392.	1.1	76
14	Loss of Alternative Non-Drug Reinforcement Induces Relapse of Cocaine-Seeking in Rats: Role of Dopamine D1 Receptors. <i>Neuropsychopharmacology</i> , 2011, 36, 1015-1020.	5.4	56
15	Resurgence as Choice: Implications for promoting durable behavior change. <i>Journal of Applied Behavior Analysis</i> , 2019, 52, 816-846.	2.7	55
16	Ethanol-maintained responding of rats is more resistant to change in a context with added non-drug reinforcement. <i>Behavioural Pharmacology</i> , 2004, 15, 279-285.	1.7	54
17	Early and prolonged exposure to reward delay: Effects on impulsive choice and alcohol self-administration in male rats.. <i>Experimental and Clinical Psychopharmacology</i> , 2013, 21, 172-180.	1.8	53
18	Behavioral momentum and resurgence: Effects of time in extinction and repeated resurgence tests. <i>Learning and Behavior</i> , 2013, 41, 414-424.	1.0	52

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19	Quantitative models of persistence and relapse from the perspective of behavioral momentum theory: Fits and misfits. <i>Behavioural Processes</i> , 2017, 141, 92-99.	1.1	49
20	Novelty, stimulus control, and operant variability. <i>The Behavior Analyst</i> , 2002, 25, 175-190.	2.5	48
21	Resurgence and alternative reinforcer magnitude. <i>Journal of the Experimental Analysis of Behavior</i> , 2017, 107, 218-233.	1.1	48
22	Moving Beyond Reinforcement and Response Strength. <i>The Behavior Analyst</i> , 2017, 40, 107-121.	2.5	42
23	Resurgence as Choice in Context: Treatment duration and on/off alternative reinforcement. <i>Journal of the Experimental Analysis of Behavior</i> , 2020, 113, 57-76.	1.1	39
24	A THEORY OF ATTENDING AND REINFORCEMENT IN CONDITIONAL DISCRIMINATIONS. <i>Journal of the Experimental Analysis of Behavior</i> , 2005, 84, 281-303.	1.1	38
25	Effects of signaled and unsignaled alternative reinforcement on persistence and relapse in children and pigeons. <i>Journal of the Experimental Analysis of Behavior</i> , 2016, 106, 34-57.	1.1	36
26	A THEORY OF ATTENDING, REMEMBERING, AND REINFORCEMENT IN DELAYED MATCHING TO SAMPLE. <i>Journal of the Experimental Analysis of Behavior</i> , 2007, 88, 285-317.	1.1	35
27	ACCURACY OF DISCRIMINATION, RATE OF RESPONDING, AND RESISTANCE TO CHANGE. <i>Journal of the Experimental Analysis of Behavior</i> , 2003, 79, 307-321.	1.1	34
28	Higher rate alternative non-drug reinforcement produces faster suppression of cocaine seeking but more resurgence when removed. <i>Behavioural Brain Research</i> , 2016, 306, 48-51.	2.2	33
29	RATE OF CONDITIONED REINFORCEMENT AFFECTS OBSERVING RATE BUT NOT RESISTANCE TO CHANGE. <i>Journal of the Experimental Analysis of Behavior</i> , 2005, 84, 1-17.	1.1	31
30	Suboptimal choice, reward-predictive signals, and temporal information.. <i>Journal of Experimental Psychology Animal Learning and Cognition</i> , 2018, 44, 1-22.	0.5	31
31	MATCHING AND CONDITIONED REINFORCEMENT RATE. <i>Journal of the Experimental Analysis of Behavior</i> , 2006, 85, 167-180.	1.1	29
32	Divided attention performance and the matching law. <i>Learning and Behavior</i> , 2006, 34, 255-261.	1.0	29
33	Response reinforcer relations and resistance to change. <i>Behavioural Processes</i> , 2008, 77, 109-125.	1.1	29
34	Resurgence of target responding does not exceed increases in inactive responding in a forced-choice alternative reinforcement procedure in humans. <i>Behavioural Processes</i> , 2016, 124, 80-92.	1.1	29
35	Longer treatment with alternative non-drug reinforcement fails to reduce resurgence of cocaine or alcohol seeking in rats. <i>Behavioural Brain Research</i> , 2018, 341, 54-62.	2.2	29
36	Destructive behavior increases as a function of reductions in alternative reinforcement during schedule thinning: A retrospective quantitative analysis. <i>Journal of the Experimental Analysis of Behavior</i> , 2021, 116, 243-248.	1.1	29

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37	Renewal, resurgence, and alternative reinforcement context. <i>Behavioural Processes</i> , 2015, 116, 43-49.	1.1	26
38	Temporal contingency. <i>Behavioural Processes</i> , 2014, 101, 89-96.	1.1	24
39	Conditioned reinforcement and information theory reconsidered. <i>Journal of the Experimental Analysis of Behavior</i> , 2015, 103, 405-418.	1.1	24
40	Rats engage in suboptimal choice when the delay to food is sufficiently long.. <i>Journal of Experimental Psychology Animal Learning and Cognition</i> , 2019, 45, 301-310.	0.5	24
41	ON THE FUNCTIONS OF THE CHANGEOVER DELAY. <i>Journal of the Experimental Analysis of Behavior</i> , 1998, 69, 141-160.	1.1	23
42	RESISTANCE TO CHANGE OF RESPONDING MAINTAINED BY UNSIGNALLED DELAYS TO REINFORCEMENT: A RESPONSE-BOUNDED ANALYSIS. <i>Journal of the Experimental Analysis of Behavior</i> , 2006, 85, 329-347.	1.1	23
43	Stimuli previously associated with reinforcement mitigate resurgence. <i>Journal of the Experimental Analysis of Behavior</i> , 2017, 108, 139-150.	1.1	23
44	OBSERVING BEHAVIOR: EFFECTS OF RATE AND MAGNITUDE OF PRIMARY REINFORCEMENT. <i>Journal of the Experimental Analysis of Behavior</i> , 2002, 78, 161-178.	1.1	22
45	The observing-response procedure: A novel method to study drug-associated conditioned reinforcement.. <i>Experimental and Clinical Psychopharmacology</i> , 2002, 10, 3-9.	1.8	21
46	RESISTANCE TO CHANGE OF FORGETTING FUNCTIONS AND RESPONSE RATES. <i>Journal of the Experimental Analysis of Behavior</i> , 2005, 84, 65-75.	1.1	21
47	Contingency, contiguity, and causality in conditioning: Applying information theory and Weber's Law to the assignment of credit problem.. <i>Psychological Review</i> , 2019, 126, 761-773.	3.8	21
48	MECHANISMS UNDERLYING THE EFFECTS OF UNSIGNALLED DELAYED REINFORCEMENT ON KEY PECKING OF PIGEONS UNDER VARIABLE-INTERVAL SCHEDULES. <i>Journal of the Experimental Analysis of Behavior</i> , 1998, 69, 103-122.	1.1	20
49	THE RESISTANCE TO CHANGE OF OBSERVING. <i>Journal of the Experimental Analysis of Behavior</i> , 2003, 80, 273-293.	1.1	20
50	Behavioral momentum of cocaine self-administration: effects of frequency of reinforcement on resistance to extinction. <i>Behavioural Pharmacology</i> , 2009, 20, 337-345.	1.7	20
51	Resurgence and downshifts in alternative reinforcement rate. <i>Journal of the Experimental Analysis of Behavior</i> , 2020, 114, 163-178.	1.1	20
52	PIGEONS MAY NOT REMEMBER THE STIMULI THAT REINFORCED THEIR RECENT BEHAVIOR. <i>Journal of the Experimental Analysis of Behavior</i> , 2000, 73, 125-139.	1.1	19
53	CONDITIONED REINFORCEMENT VALUE AND RESISTANCE TO CHANGE. <i>Journal of the Experimental Analysis of Behavior</i> , 2008, 89, 263-298.	1.1	18
54	Modeling the effects of sensory reinforcers on behavioral persistence with alternative reinforcement. <i>Journal of the Experimental Analysis of Behavior</i> , 2014, 102, 252-266.	1.1	18

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55	Impulsive Choice Predicts Anxiety-Like Behavior, but not Alcohol or Sucrose Consumption, in Male Long-Evans Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 932-940.	2.4	18
56	Behavioral economics of human drug self-administration: progressive ratio versus random sequences of response requirements. <i>Behavioural Pharmacology</i> , 2001, 12, 343-347.	1.7	17
57	Divided attention and the matching law: Sample duration affects sensitivity to reinforcement allocation. <i>Learning and Behavior</i> , 2007, 35, 141-148.	1.0	17
58	Punishment and its putative fallout: A reappraisal. <i>Journal of the Experimental Analysis of Behavior</i> , 2021, 115, 185-203.	1.1	17
59	D-Amphetamine reinstates behavior previously maintained by food: importance of context. <i>Behavioural Pharmacology</i> , 2004, 15, 513-516.	1.7	16
60	Resistance to change of alcohol self-administration: effects of alcohol-delivery rate on disruption by extinction and naltrexone. <i>Behavioural Pharmacology</i> , 2007, 18, 161-169.	1.7	16
61	Quantitative analyses of observing and attending. <i>Behavioural Processes</i> , 2008, 78, 145-157.	1.1	16
62	Punishment of an alternative behavior generates resurgence of a previously extinguished target behavior. <i>Journal of the Experimental Analysis of Behavior</i> , 2018, 110, 171-184.	1.1	16
63	Resurgence of a target behavior suppressed by a combination of punishment and alternative reinforcement. <i>Behavioural Processes</i> , 2019, 162, 177-183.	1.1	16
64	Behavioral momentum and relapse of ethanol seeking. <i>Behavioural Pharmacology</i> , 2011, 22, 81-86.	1.7	15
65	Effects of differential rates of alternative reinforcement on resurgence of human behavior. <i>Journal of the Experimental Analysis of Behavior</i> , 2017, 107, 191-202.	1.1	15
66	The observing-response procedure: A novel method to study drug-associated conditioned reinforcement.. <i>Experimental and Clinical Psychopharmacology</i> , 2002, 10, 3-9.	1.8	15
67	Coyotes (<i>Canis latrans</i>) and the matching law. <i>Behavioural Processes</i> , 2009, 82, 178-183.	1.1	14
68	Temporal integration and instrumental conditioned reinforcement. <i>Learning and Behavior</i> , 2014, 42, 201-208.	1.0	14
69	Experience with dynamic reinforcement rates decreases resistance to extinction. <i>Journal of the Experimental Analysis of Behavior</i> , 2016, 105, 291-306.	1.1	14
70	Differential outcomes enhance accuracy of delayed matching to sample but not resistance to change.. <i>Journal of Experimental Psychology</i> , 2009, 35, 74-91.	1.7	12
71	Delivering alternative reinforcement in a distinct context reduces its counter-therapeutic effects on relapse. <i>Journal of the Experimental Analysis of Behavior</i> , 2018, 109, 492-505.	1.1	12
72	Resurgence of punishment-suppressed cocaine seeking in rats.. <i>Experimental and Clinical Psychopharmacology</i> , 2020, 28, 365-374.	1.8	12

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73	UNSIGNALED DELAY OF REINFORCEMENT, RELATIVE TIME, AND RESISTANCE CHANGE. <i>Journal of the Experimental Analysis of Behavior</i> , 2005, 83, 201-219.	1.1	11
74	RESISTANCE TO CHANGE AND RELAPSE OF OBSERVING. <i>Journal of the Experimental Analysis of Behavior</i> , 2012, 97, 281-304.	1.1	11
75	Loss of nondrug reinforcement in one context produces alcohol seeking in another context. <i>Behavioural Pharmacology</i> , 2013, 24, 496-503.	1.7	11
76	Behavioral momentum and accumulation of mass in multiple schedules. <i>Journal of the Experimental Analysis of Behavior</i> , 2015, 103, 437-449.	1.1	11
77	Renewal of extinguished operant behavior following changes in social context. <i>Journal of the Experimental Analysis of Behavior</i> , 2018, 110, 430-439.	1.1	11
78	Resurgence of sucrose and cocaine seeking in free-feeding rats. <i>Behavioural Brain Research</i> , 2015, 279, 47-51.	2.2	10
79	How suboptimal is suboptimal choice?. <i>Journal of the Experimental Analysis of Behavior</i> , 2017, 107, 136-150.	1.1	10
80	A Theory of the Extinction Burst. <i>Perspectives on Behavior Science</i> , 2022, 45, 495-519.	1.9	10
81	Stimuli produced by observing responses make rats' ethanol self-administration more resistant to price increases. <i>Psychopharmacology</i> , 2003, 167, 180-186.	3.1	8
82	Differential reinforcement and resistance to change of divided-attention performance. <i>Learning and Behavior</i> , 2012, 40, 158-169.	1.0	8
83	Behavioral momentum and resistance to extinction across repeated extinction tests. <i>Journal of the Experimental Analysis of Behavior</i> , 2019, 112, 290-309.	1.1	8
84	The extinction burst: Impact of reinforcement time and level of analysis on measured prevalence. <i>Journal of the Experimental Analysis of Behavior</i> , 2021, 116, 131-148.	1.1	8
85	Differing Views of Contingencies: How Contiguous?. <i>The Behavior Analyst</i> , 1997, 20, 149-154.	2.5	7
86	RESISTANCE TO CHANGE AND FREQUENCY OF RESPONSE-DEPENDENT STIMULI UNCORRELATED WITH REINFORCEMENT. <i>Journal of the Experimental Analysis of Behavior</i> , 2009, 92, 199-214.	1.1	7
87	Matching law analysis of rats' alcohol self-administration in a free-operant choice procedure. <i>Behavioural Pharmacology</i> , 2008, 19, 353-356.	1.7	6
88	Attention and conditioned reinforcement.. , 2013, , 387-410.		6
89	Are preference and resistance to change convergent expressions of stimulus value?. <i>Journal of the Experimental Analysis of Behavior</i> , 2013, 100, 27-48.	1.1	5
90	Examination of the role of dopamine D2 and adrenergic α_2 receptors in resurgence of food seeking. <i>Behavioural Brain Research</i> , 2014, 271, 122-128.	2.2	5

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91	Resurgence of alcohol seeking following abstinence induced by punishment in male and female rats. Behavioural Brain Research, 2021, 410, 113345.	2.2	5
92	Reinforcer satiation and resistance to change of responding maintained by qualitatively different reinforcers. Behavioural Processes, 2009, 81, 126-132.	1.1	4
93	Effects of initial-link duration on preference and resistance to change in concurrent-chains schedules. Behavioural Processes, 2009, 81, 223-226.	1.1	4
94	TEMPORAL CONTEXT, PREFERENCE, AND RESISTANCE TO CHANGE. Journal of the Experimental Analysis of Behavior, 2011, 96, 191-213.	1.1	4
95	Examination of alternative-response discrimination training and resurgence in rats. Learning and Behavior, 2021, 49, 379-396.	1.0	4
96	Resurgence following traditional and interdependent differential reinforcement of alternative behavior.. Behavioral Development Bulletin, 2021, 26, 29-42.	0.5	4
97	Superstitious responding and reinforcement rate under concurrent variable-interval extinction schedules. Behavioural Processes, 2001, 53, 163-170.	1.1	3
98	Effects of self-administered alcohol concentration on the frequency and persistence of rats?? attending to alcohol cues. Behavioural Pharmacology, 2006, 17, 201-211.	1.7	3
99	CONCURRENTâ€CHAINS SCHEDULES AS A METHOD TO STUDY CHOICE BETWEEN ALCOHOLâ€ASSOCIATED CONDITIONED REINFORCERS. Journal of the Experimental Analysis of Behavior, 2012, 97, 71-83.	1.1	3
100	Delays to food-predictive stimuli do not affect suboptimal choice in rats.. Journal of Experimental Psychology Animal Learning and Cognition, 2020, 46, 385-397.	0.5	3
101	The effects of large, small, and thinning magnitudes of alternative reinforcement on resurgence. Behavioural Processes, 2022, 195, 104586.	1.1	3
102	Effects of repeated exposure to escalating versus constant punishment intensity on response allocation. Journal of the Experimental Analysis of Behavior, 2022, , .	1.1	3
103	CHOICE, CHANGING OVER, AND REINFORCEMENT DELAYS. Journal of the Experimental Analysis of Behavior, 2000, 74, 311-330.	1.1	2
104	Contrast effects in response rate and accuracy of delayed matching to sample. Quarterly Journal of Experimental Psychology, 2008, 61, 1400-1409.	1.1	2
105	Delayed matching to sample: Reinforcement has opposite effects on resistance to change in two related procedures. Learning and Behavior, 2012, 40, 380-392.	1.0	2
106	Relapse: An introduction. Journal of the Experimental Analysis of Behavior, 2020, 113, 8-14.	1.1	2
107	SQAB 2012:Timing. Behavioural Processes, 2013, 95, 1-2.	1.1	1
108	The impact of D-amphetamine and SCH23390 on behavioral momentum of food seeking and reinstatement in rats. Behavioural Pharmacology, 2015, 26, 249-259.	1.7	1

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109	Multiple schedules, off-baseline reinforcement shifts, and resistance to extinction. Journal of the Experimental Analysis of Behavior, 2018, 109, 148-163.	1.1	1
110	Resurgence and repeated within-session progressive interval thinning of alternative reinforcement. Journal of the Experimental Analysis of Behavior, 2021, 115, 442-459.	1.1	1
111	Ethical and theoretical paradoxes in human behavioral pharmacological research. Commentary on Fischman and Johanson's Ethical and practical issues involved in behavioral pharmacology research that administers drugs of abuse to human volunteers. Behavioural Pharmacology, 1998, 9, 503-507.	1.7	0
112	SQAB 2008: More than the usual suspects. Behavioural Processes, 2009, 81, 149-153.	1.1	0
113	SQAB 2009: Flying high. Behavioural Processes, 2010, 84, 353-355.	1.1	0
114	Preface. Behavioural Processes, 2011, 87, iv-v.	1.1	0