J J Mcdowell

List of Publications by Year in descending order

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63 papers	1,856 citations	257450 24 h-index	276875 41 g-index
67 all docs	67 docs citations	67 times ranked	372 citing authors

#	Article	IF	Citations
1	Matching Theory in Natural Human Environments. The Behavior Analyst, 1988, 11, 95-109.	2.5	180
2	The importance of Herrnstein's mathematical statement of the law of effect for behavior therapy.. American Psychologist, 1982, 37, 771-779.	4.2	129
3	CONFIRMATION OF LINEAR SYSTEM THEORY PREDICTION: CHANGES IN HERRNSTEIN'S k AS A FUNCTION OF CHANGES IN REINFORCER MAGNITUDE. Journal of the Experimental Analysis of Behavior, 1984, 41, 183-192.	1.1	101
4	A MULTIVARIATE RATE EQUATION FOR VARIABLE-INTERVAL PERFORMANCE. Journal of the Experimental Analysis of Behavior, 1979, 31, 267-283.	1.1	78
5	ON THE CLASSIC AND MODERN THEORIES OF MATCHING. Journal of the Experimental Analysis of Behavior, 2005, 84, 111-127.	1.1	75
6	On the theoretical and empirical status of the matching law and matching theory.. Psychological Bulletin, 2013, 139, 1000-1028.	6.1	74
7	A COMPUTATIONAL MODEL OF SELECTION BY CONSEQUENCES. Journal of the Experimental Analysis of Behavior, 2004, 81, 297-317.	1.1	71
8	The importance of Herrnstein's mathematical statement of the law of effect for behavior therapy.. American Psychologist, 1982, 37, 771-779.	4.2	70
9	VARIABLE-RATIO SCHEDULES AS VARIABLE-INTERVAL SCHEDULES WITH LINEAR FEEDBACK LOOPS. Journal of the Experimental Analysis of Behavior, 1986, 46, 315-329.	1.1	67
10	Two Modern Developments in Matching Theory. The Behavior Analyst, 1989, 12, 153-166.	2.5	59
11	AN ANALYTIC COMPARISON OF HERRNSTEIN'S EQUATIONS AND A MULTIVARIATE RATE EQUATION. Journal of the Experimental Analysis of Behavior, 1980, 33, 397-408.	1.1	58
12	CONFIRMATION OF LINEAR SYSTEM THEORY PREDICTION: RATE OF CHANGE OF HERRNSTEIN'S k AS A FUNCTION OF RESPONSE-FORCE REQUIREMENT. Journal of the Experimental Analysis of Behavior, 1985, 43, 61-73.	1.1	57
13	ON THE FALSIFIABILITY OF MATCHING THEORY. Journal of the Experimental Analysis of Behavior, 1986, 45, 63-74.	1.1	50
14	A COMPUTATIONAL THEORY OF SELECTION BY CONSEQUENCES APPLIED TO CONCURRENT SCHEDULES. Journal of the Experimental Analysis of Behavior, 2008, 90, 387-403.	1.1	41
15	FALSIFICATION OF MATCHING THEORY'S ACCOUNT OF SINGLE-ALTERNATIVE RESPONDING: HERRNSTEIN'S K VARIES WITH SUCROSE CONCENTRATION. Journal of the Experimental Analysis of Behavior, 2000, 73, 23-43.	1.1	35
16	Undermatching is an emergent property of selection by consequences. Behavioural Processes, 2007, 75, 97-106.	1.1	33
17	FALSIFICATION OF MATCHING THEORY: CHANGES IN THE ASYMPTOTE OF HERRNSTEIN'S HYPERBOLA AS A FUNCTION OF WATER DEPRIVATION. Journal of the Experimental Analysis of Behavior, 1999, 72, 251-268.	1.1	32
18	A quantitative evolutionary theory of adaptive behavior dynamics.. Psychological Review, 2013, 120, 731-750.	3.8	32

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19	WILKINSON'S METHOD OF ESTIMATING THE PARAMETERS OF HERRNSTEIN'S HYPERBOLA. Journal of the Experimental Analysis of Behavior, 1981, 35, 413-414.	1.1	31
20	Behavioral and neural Darwinism: Selectionist function and mechanism in adaptive behavior dynamics. Behavioural Processes, 2010, 84, 358-365.	1.1	29
21	BIAS AND UNDERMATCHING IN DELINQUENT BOYS' VERBAL BEHAVIOR AS A FUNCTION OF THEIR LEVEL OF DEVIANCE. Journal of the Experimental Analysis of Behavior, 2010, 93, 471-483.	1.1	28
22	TOWARD A MECHANICS OF ADAPTIVE BEHAVIOR: EVOLUTIONARY DYNAMICS AND MATCHING THEORY STATICS. Journal of the Experimental Analysis of Behavior, 2010, 94, 241-260.	1.1	27
23	MATCHING IN AN UNDISTURBED NATURAL HUMAN ENVIRONMENT. Journal of the Experimental Analysis of Behavior, 2010, 93, 415-433.	1.1	26
24	Beyond continuous mathematics and traditional scientific analysis: Understanding and mining Wolfram's A New Kind of Science. Behavioural Processes, 2009, 81, 343-352.	1.1	25
25	APPLICATION OF HERRNSTEIN'S HYPERBOLA TO TIME ALLOCATION OF NATURALISTIC HUMAN BEHAVIOR MAINTAINED BY NATURALISTIC SOCIAL REINFORCEMENT. Journal of the Experimental Analysis of Behavior, 1992, 57, 177-185.	1.1	21
26	Representations of complexity: How nature appears in our theories. The Behavior Analyst, 2013, 36, 345-359.	2.5	21
27	A TEST OF THE FORMAL AND MODERN THEORIES OF MATCHING. Journal of the Experimental Analysis of Behavior, 2005, 84, 129-145.	1.1	20
28	The effect of Hamming distances in a computational model of selection by consequences. Behavioural Processes, 2010, 84, 428-434.	1.1	20
29	SELECTION DYNAMICS IN JOINT MATCHING TO RATE AND MAGNITUDE OF REINFORCEMENT. Journal of the Experimental Analysis of Behavior, 2012, 98, 199-212.	1.1	18
30	On the current status of the evolutionary theory of behavior dynamics. Journal of the Experimental Analysis of Behavior, 2019, 111, 130-145.	1.1	18
31	A computational model of selection by consequences: Log survivor plots. Behavioural Processes, 2008, 78, 291-296.	1.1	17
32	Toward a contemporary quantitative model of punishment. Journal of the Experimental Analysis of Behavior, 2018, 109, 336-348.	1.1	17
33	Against matching theory: Predictions of an evolutionary theory of behavior dynamics. Behavioural Processes, 2015, 114, 14-25.	1.1	16
34	An evolutionary theory of behavior dynamics applied to concurrent ratio schedules. Journal of the Experimental Analysis of Behavior, 2018, 110, 323-335.	1.1	16
35	THE LINEAR SYSTEM THEORY'S ACCOUNT OF BEHAVIOR MAINTAINED BY VARIABLE-RATIO SCHEDULES. Journal of the Experimental Analysis of Behavior, 1988, 49, 143-169.	1.1	14
36	A new understanding of the foundation of linear system analysis and an extension to nonlinear cases.. Psychological Review, 1993, 100, 407-419.	3.8	14

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37	Behavioral variability in an evolutionary theory of behavior dynamics. Journal of the Experimental Analysis of Behavior, 2016, 105, 270-290.	1.1	14
38	DYNAMIC EQUILIBRIUM ON A CYCLIC-INTERVAL SCHEDULE WITH A RAMP. Journal of the Experimental Analysis of Behavior, 1981, 36, 9-19.	1.1	13
39	Variable-interval rate equations and reinforcement and response distributions.. Psychological Review, 1983, 90, 364-375.	3.8	13
40	Response-reinforcement relationships in chronic pain syndrome: Applicability of Herrnstein's law. Behaviour Research and Therapy, 1995, 33, 855-863.	3.1	13
41	CALCULI OF COMPLEXITY: HOW PHENOMENA EMERGE FROM RULES. Journal of the Experimental Analysis of Behavior, 2013, 99, 234-244.	1.1	13
42	A computational theory of adaptive behavior based on an evolutionary reinforcement mechanism. , 2006, , .		12
43	Computational model of selection by consequences: Patterns of preference change on concurrent schedules. Journal of the Experimental Analysis of Behavior, 2013, 100, 147-164.	1.1	12
44	An implementation of punishment in the evolutionary theory of behavior dynamics. Journal of the Experimental Analysis of Behavior, 2019, 112, 128-143.	1.1	11
45	All Behavior is choice: Revisiting an evolutionary theory's account of behavior on single schedules. Journal of the Experimental Analysis of Behavior, 2020, 114, 430-446.	1.1	11
46	BEHAVIOR ANALYSIS: THE THIRD BRANCH OF ARISTOTLE'S PHYSICS. Journal of the Experimental Analysis of Behavior, 1988, 50, 297-304.	1.1	10
47	Quantitative, steady-state properties of Catania's computational model of the operant reserve. Behavioural Processes, 2011, 87, 71-83.	1.1	10
48	The Effect of Reinforcement, and the Roles of Mutation Rate and Selection Pressure, in an Evolutionary Theory of Behavior Dynamics. The Behavior Analyst, 2017, 40, 75-82.	2.5	10
49	Extending unified-theory-of-reinforcement neural networks to steady-state operant behavior. Behavioural Processes, 2016, 127, 52-61.	1.1	9
50	Falsification of matching theory and confirmation of an evolutionary theory of behavior dynamics in a critical experiment. Behavioural Processes, 2017, 140, 61-68.	1.1	9
51	A discriminated rapidâ€acquisition laboratory procedure for human continuous choice. Journal of the Experimental Analysis of Behavior, 2020, 114, 142-159.	1.1	8
52	Modeling Subtypes of Automatically Reinforced Self-Injurious Behavior with the Evolutionary Theory of Behavior Dynamics. Perspectives on Behavior Science, 2021, 44, 581-603.	1.9	8
53	Irreconcilable Differences and Political Reality in These Dark Ages. The Behavior Analyst, 1991, 14, 29-33.	2.5	7
54	Evolutionary theory prediction: Response rate as a joint function of reinforcement rate and reinforcer magnitude. Journal of the Experimental Analysis of Behavior, 2021, 116, 225-242.	1.1	7

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55	Minding Rachlinâ€™s eliminative materialism. The Behavior Analyst, 2012, 35, 17-27.	2.5	6
56	Unified-theory-of-reinforcement neural networks do not simulate the blocking effect. Behavioural Processes, 2015, 120, 54-63.	1.1	6
57	Empirical Matching, Matching Theory, and an Evolutionary Theory of Behavior Dynamics in Clinical Application. Perspectives on Behavior Science, 2021, 44, 561-580.	1.9	5
58	A survey of residual analysis and a new test of residual trend. Journal of the Experimental Analysis of Behavior, 2016, 105, 445-458.	1.1	4
59	The WIG (weighted individual and group) shrinkage estimator. Journal of the Experimental Analysis of Behavior, 2019, 111, 166-182.	1.1	3
60	Methodological improvements to a Procedure for Rapidly Establishing Steadyâ€State Behavior. Journal of the Experimental Analysis of Behavior, 2021, 115, 747-768.	1.1	3
61	Corrigendum to: A discriminated rapidâ€acquisition laboratory procedure for human continuous choice. Journal of the Experimental Analysis of Behavior, 2022, 117, 267-269.	1.1	2
62	Understanding matching theory and its application to data: Reply to Caron (2013).. Psychological Bulletin, 2013, 139, 1032-1035.	6.1	1
63	Doing It Yourself. Behavior Analysis in Practice, 2015, 8, 161-162.	2.0	1