

Herbert A Simon

List of Publications by Year in descending order

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180
papers

54,581
citations

7069

78
h-index

6282

158
g-index

188
all docs

188
docs citations

188
times ranked

22043
citing authors

#	ARTICLE	IF	CITATIONS
1	A Behavioral Model of Rational Choice. Quarterly Journal of Economics, 1955, 69, 99.	3.8	9,617
2	Perception in chess. Cognitive Psychology, 1973, 4, 55-81.	0.9	3,795
3	Why a Diagram is (Sometimes) Worth Ten Thousand Words. Cognitive Science, 1987, 11, 65-100.	0.8	2,385
4	Bounded Rationality and Organizational Learning. Organization Science, 1991, 2, 125-134.	3.0	2,142
5	ON A CLASS OF SKEW DISTRIBUTION FUNCTIONS. Biometrika, 1955, 42, 425-440.	1.3	1,900
6	Computer science as empirical inquiry. Communications of the ACM, 1976, 19, 113-126.	3.3	1,827
7	The structure of ill structured problems. Artificial Intelligence, 1973, 4, 181-201.	3.9	1,767
8	Invariants of Human Behavior. Annual Review of Psychology, 1990, 41, 1-20.	9.9	1,416
9	Motivational and emotional controls of cognition.. Psychological Review, 1967, 74, 29-39.	2.7	1,177
10	Organizations and Markets. Journal of Economic Perspectives, 1991, 5, 25-44.	2.7	1,153
11	Human Nature in Politics: The Dialogue of Psychology with Political Science. American Political Science Review, 1985, 79, 293-304.	2.6	1,102
12	Elements of a theory of human problem solving.. Psychological Review, 1958, 65, 151-166.	2.7	965
13	Situated Learning and Education. Educational Researcher, 1996, 25, 5-11.	3.3	889
14	Selective Perception: A Note on the Departmental Identifications of Executives. Sociometry, 1958, 21, 140.	0.9	887
15	THE MIND'S EYE IN CHESS. , 1973, , 215-281.		847
16	A mechanism for social selection and successful altruism. Science, 1990, 250, 1665-1668.	6.0	709
17	The functional equivalence of problem solving skills. Cognitive Psychology, 1975, 7, 268-288.	0.9	594
18	The theory of learning by doing.. Psychological Review, 1979, 86, 124-140.	2.7	521

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19	In search of insight. <i>Cognitive Psychology</i> , 1990, 22, 374-419.	0.9	506
20	Aggregation of Variables in Dynamic Systems. <i>Econometrica</i> , 1961, 29, 111.	2.6	503
21	From substantive to procedural rationality. , 1976, , 129-148.		484
22	Templates in Chess Memory: A Mechanism for Recalling Several Boards. <i>Cognitive Psychology</i> , 1996, 31, 1-40.	0.9	451
23	Situated Action: A Symbolic Interpretation. <i>Cognitive Science</i> , 1993, 17, 7-48.	0.8	425
24	Information Processing Models of Cognition. <i>Annual Review of Psychology</i> , 1979, 30, 363-396.	9.9	420
25	How to Study Thinking in Everyday Life: Contrasting Think-Aloud Protocols With Descriptions and Explanations of Thinking. <i>Mind, Culture, and Activity</i> , 1998, 5, 178-186.	1.1	405
26	Dynamic Programming Under Uncertainty with a Quadratic Criterion Function. <i>Econometrica</i> , 1956, 24, 74.	2.6	391
27	Models of Discovery. <i>Boston Studies in the Philosophy and History of Science</i> , 1977, , .	0.4	390
28	Heuristic Problem Solving: The Next Advance in Operations Research. <i>Operations Research</i> , 1958, 6, 1-10.	1.2	379
29	Models of Competence in Solving Physics Problems*. <i>Cognitive Science</i> , 1980, 4, 317-345.	0.8	374
30	What is an "Explanation" of Behavior?. <i>Psychological Science</i> , 1992, 3, 150-161.	1.8	367
31	A simulation of memory for chess positions. <i>Cognitive Psychology</i> , 1973, 5, 29-46.	0.9	362
32	Human acquisition of concepts for sequential patterns.. <i>Psychological Review</i> , 1963, 70, 534-546.	2.7	349
33	Human problem solving: The state of the theory in 1970.. <i>American Psychologist</i> , 1971, 26, 145-159.	3.8	347
34	Bounded rationality in social science: Today and tomorrow. <i>Mind and Society</i> , 2000, 1, 25-39.	0.9	329
35	From substantive to procedural rationality. , 1976, , 65-86.		319
36	The understanding process: Problem isomorphs. <i>Cognitive Psychology</i> , 1976, 8, 165-190.	0.9	297

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37	The Processes of Scientific Discovery: The Strategy of Experimentation. Cognitive Science, 1988, 12, 139-175.	0.8	293
38	The Compensation of Executives. Sociometry, 1957, 20, 32.	0.9	286
39	Causality in device behavior. Artificial Intelligence, 1986, 29, 3-32.	3.9	271
40	Note: Some Conditions of Macroeconomic Stability. Econometrica, 1949, 17, 245.	2.6	269
41	Studies of scientific discovery: Complementary approaches and convergent findings.. Psychological Bulletin, 1999, 125, 524-543.	5.5	265
42	Spurious Correlation: A Causal Interpretation*. Journal of the American Statistical Association, 1954, 49, 467-479.	1.8	259
43	Learning Mathematics From Examples and by Doing. Cognition and Instruction, 1987, 4, 137-166.	1.9	254
44	Spurious Correlation: A Causal Interpretation. Journal of the American Statistical Association, 1954, 49, 467.	1.8	241
45	STM capacity for Chinese words and idioms: Chunking and acoustical loop hypotheses. Memory and Cognition, 1985, 13, 193-201.	0.9	240
46	Bandwagon and Underdog Effects and the Possibility of Election Predictions. Public Opinion Quarterly, 1954, 18, 245.	0.9	234
47	Expert Chess Memory: Revisiting the Chunking Hypothesis. Memory, 1998, 6, 225-255.	0.9	221
48	Strategy and organizational evolution. Strategic Management Journal, 1993, 14, 131-142.	4.7	210
49	Why a Diagram is (Sometimes) Worth Ten Thousand Words. , 1987, 11, 65.		209
50	Perspectives on Learning, Thinking, and Activity. Educational Researcher, 2000, 29, 11-13.	3.3	208
51	Complexity and the representation of patterned sequences of symbols.. Psychological Review, 1972, 79, 369-382.	2.7	205
52	Recall of rapidly presented random chess positions is a function of skill. Psychonomic Bulletin and Review, 1996, 3, 159-163.	1.4	190
53	Collaborative Discovery in a Scientific Domain. Cognitive Science, 1997, 21, 109-146.	0.8	184
54	Empirical tests of a theory of human acquisition of concepts for sequential patterns. Cognitive Psychology, 1973, 4, 399-424.	0.9	179

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55	Five Seconds or Sixty? Presentation Time in Expert Memory. <i>Cognitive Science</i> , 2000, 24, 651-682.	0.8	178
56	Cognitive Science: The Newest Science of the Artificial*. <i>Cognitive Science</i> , 1980, 4, 33-46.	0.8	176
57	A THEORY OF THE SERIAL POSITION EFFECT. <i>British Journal of Psychology</i> , 1962, 53, 307-320.	1.2	173
58	Artificial intelligence: an empirical science. <i>Artificial Intelligence</i> , 1995, 77, 95-127.	3.9	169
59	Rationality in Political Behavior. <i>Political Psychology</i> , 1995, 16, 45.	2.2	169
60	Causality and model abstraction. <i>Artificial Intelligence</i> , 1994, 67, 143-194.	3.9	165
61	Does Scientific Discovery Have a Logic?. <i>Philosophy of Science</i> , 1973, 40, 471-480.	0.5	161
62	The Roles of Recognition Processes and Look-Ahead Search in Time-Constrained Expert Problem Solving: Evidence From Grand-Master-Level Chess. <i>Psychological Science</i> , 1996, 7, 52-55.	1.8	160
63	Simulation of expert memory using EPAM IV.. <i>Psychological Review</i> , 1995, 102, 305-330.	2.7	144
64	Recall of random and distorted chess positions: Implications for the theory of expertise. <i>Memory and Cognition</i> , 1996, 24, 493-503.	0.9	136
65	Cause and Counterfactual. <i>Philosophy of Science</i> , 1966, 33, 323-340.	0.5	134
66	On the behavioral and rational foundations of economic dynamics. <i>Journal of Economic Behavior and Organization</i> , 1984, 5, 35-55.	1.0	133
67	On the Definition of the Causal Relation. <i>The Journal of Philosophy</i> , 1952, 49, 517.	0.3	130
68	What makes some problems really hard: Explorations in the problem space of difficulty. <i>Cognitive Psychology</i> , 1990, 22, 143-183.	0.9	129
69	Information-processing analysis of perceptual processes in problem solving.. <i>Psychological Review</i> , 1969, 76, 473-483.	2.7	128
70	Problem Solving in Semantically Rich Domains: An Example from Engineering Thermodynamics*. <i>Cognitive Science</i> , 1977, 1, 193-215.	0.8	128
71	Laboratory Replication of Scientific Discovery Processes. <i>Cognitive Science</i> , 1990, 14, 281-312.	0.8	126
72	An information-processing theory of some effects of similarity, familiarization, and meaningfulness in verbal learning. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1964, 3, 385-396.	3.8	125

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73	Prediction and Prescription in Systems Modeling. <i>Operations Research</i> , 1990, 38, 7-14.	1.2	118
74	Some further notes on a class of skew distribution functions. <i>Information and Control</i> , 1960, 3, 80-88.	1.3	111
75	Modeling strategy shifts in a problem-solving task. <i>Cognitive Psychology</i> , 1976, 8, 86-97.	0.9	110
76	Scientific discovery as problem solving. <i>Synthese</i> , 1981, 47, 1-27.	0.6	108
77	Two Heads Are Better than One: The Collaboration between AI and OR. <i>Interfaces</i> , 1987, 17, 8-15.	1.6	105
78	On Parsimonious Explanations of Production Relations. <i>Scandinavian Journal of Economics</i> , 1979, 81, 459.	0.7	96
79	EPAM-like Models of Recognition and Learning*. <i>Cognitive Science</i> , 1984, 8, 305-336.	0.8	96
80	CaMeRa: A Computational Model of Multiple Representations. <i>Cognitive Science</i> , 1997, 21, 305-350.	0.8	96
81	Causal Ordering and Identifiability. <i>Boston Studies in the Philosophy and History of Science</i> , 1977, , 53-80.	0.4	93
82	A comparison of game theory and learning theory. <i>Psychometrika</i> , 1956, 21, 267-272.	1.2	84
83	Context effects in letter perception: Comparison of two theories.. <i>Psychological Review</i> , 1989, 96, 417-432.	2.7	82
84	The information processing explanation of Gestalt phenomena. <i>Computers in Human Behavior</i> , 1986, 2, 241-255.	5.1	79
85	Comments on the Theory of Organizations. <i>American Political Science Review</i> , 1952, 46, 1130-1139.	2.6	71
86	Alternative Uses of Phonemic Information in Spelling. <i>Review of Educational Research</i> , 1973, 43, 115-137.	4.3	71
87	A Formal Theory of Interaction in Social Groups. <i>American Sociological Review</i> , 1952, 17, 202.	2.8	70
88	A Note on the Cobb-Douglas Function. <i>Review of Economic Studies</i> , 1963, 30, 93.	2.9	70
89	A study of how individuals solve complex and ill-structured problems. <i>Policy Sciences</i> , 1999, 32, 225-245.	1.5	69
90	Processes for sequence production.. <i>Psychological Review</i> , 1974, 81, 187-198.	2.7	66

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91	A theory of historical discovery: The construction of componential models. Machine Learning, 1986, 1, 107-137.	3.4	66
92	Effects of Increased Productivity upon the Ratio of Urban to Rural Population. Econometrica, 1947, 15, 31.	2.6	59
93	Causality in Bayesian Belief Networks. , 1993, , 3-11.		53
94	Situated Action: Reply to William Clancey. Cognitive Science, 1993, 17, 117-133.	0.8	52
95	THE LOGIC OF RATIONAL DECISION. British Journal for the Philosophy of Science, 1965, 16, 169-186.	1.4	48
96	The Axiomatization of Physical Theories. Philosophy of Science, 1970, 37, 16-26.	0.5	46
97	Modeling semantic memory: Effects of presenting semantic information in different modalities. Cognitive Psychology, 1977, 9, 293-325.	0.9	41
98	Scientific discovery and simplicity of method. Artificial Intelligence, 1997, 91, 177-181.	3.9	41
99	STM capacity for Chinese and English language materials. Memory and Cognition, 1985, 13, 202-207.	0.9	40
100	Creativity and motivation: A response to Csikszentmihalyi. New Ideas in Psychology, 1988, 6, 177-181.	1.2	40
101	Causal ordering, comparative statics, and near decomposability. Journal of Econometrics, 1988, 39, 149-173.	3.5	38
102	Nonmonotonic Reasoning and Causation: Comment. Cognitive Science, 1991, 15, 293-300.	0.8	38
103	Does Scientific Discovery Have a Logic?. Boston Studies in the Philosophy and History of Science, 1977, , 326-337.	0.4	37
104	What Have Psychologists (And Others) Discovered About the Process of Scientific Discovery?. Current Directions in Psychological Science, 2001, 10, 75-79.	2.8	35
105	Trial and error search in solving difficult problems: Evidence from the game of chess. Systems Research and Behavioral Science, 1962, 7, 425-429.	0.2	35
106	A Theory of Historical Discovery: The Construction of Componential Models. Machine Learning, 1986, 1, 107-137.	3.4	32
107	What We Know About Learning*. Journal of Engineering Education, 1998, 87, 343-348.	1.9	32
108	Barriers and bounds to Rationality. Structural Change and Economic Dynamics, 2000, 11, 243-253.	2.1	31

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109	Pattern recognition makes search possible: Comments on Holding (1992). <i>Psychological Research</i> , 1998, 61, 204-208.	1.0	30
110	Chapter 1 The game of chess. <i>Handbook of Game Theory With Economic Applications</i> , 1992, 1, 1-17.	1.3	28
111	An information-processing explanation of one-trial and incremental learning. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1967, 6, 780-787.	3.8	26
112	Satisficing. , 1987, , 1-3.		26
113	Computer modeling of scientific and mathematical discovery processes. <i>Bulletin of the American Mathematical Society</i> , 1984, 11, 247-262.	0.8	25
114	The Axiomatization of Classical Mechanics. <i>Philosophy of Science</i> , 1954, 21, 340-343.	0.5	24
115	AN INFORMATION-PROCESSING EXPLANATION OF SOME PERCEPTUAL PHENOMENA*. <i>British Journal of Psychology</i> , 1967, 58, 1-12.	1.2	24
116	The Logic of Heuristic Decision Making. <i>Boston Studies in the Philosophy and History of Science</i> , 1977, , 154-175.	0.4	23
117	Information-processing models of cognition. <i>Journal of the Association for Information Science and Technology</i> , 1981, 32, 364-377.	1.2	23
118	The behavioral approach: With emphasis on economics. <i>Systems Research and Behavioral Science</i> , 1983, 28, 95-108.	0.2	23
119	Scientific discovery as problem solving. <i>International Studies in the Philosophy of Science</i> , 1992, 6, 3-14.	0.2	23
120	Normative systems of discovery and logic of search. <i>Synthese</i> , 1988, 74, 65-90.	0.6	22
121	On Judging the Plausibility of Theories. <i>Boston Studies in the Philosophy and History of Science</i> , 1977, , 25-45.	0.4	22
122	Behavioural Economics. , 1987, , 1-9.		21
123	XCIII. The axioms of Newtonian mechanics. <i>The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science</i> , 1947, 38, 888-905.	1.5	20
124	Situated Action: Reply to Reviewers. <i>Cognitive Science</i> , 1993, 17, 77-86.	0.8	19
125	Complex Systems: The Interplay of Organizations and Markets in Contemporary Society. <i>Computational and Mathematical Organization Theory</i> , 2001, 7, 79-85.	1.5	19
126	Goals, Representations, and Strategies in a Concept Attainment Task: the EPAM Model. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 1997, 37, 265-290.	0.5	18

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127	Some monte carlo estimates of the yule distribution. Systems Research and Behavioral Science, 1963, 8, 203-210.	0.2	18
128	RAMSEY ELIMINABILITY AND THE TESTABILITY OF SCIENTIFIC THEORIES. British Journal for the Philosophy of Science, 1973, 24, 367-380.	1.4	17
129	The rural-urban population balance again. Regional Science and Urban Economics, 1982, 12, 599-606.	1.4	17
130	Internal representation and rule development in object-oriented design. ACM Transactions on Computer-Human Interaction, 1995, 2, 357-390.	4.6	17
131	Amounts of fixation and discovery in maze learning behavior. Psychometrika, 1957, 22, 261-268.	1.2	16
132	Fitness Requirements for Scientific Theories Containing Recursive Theoretical Terms. British Journal for the Philosophy of Science, 1993, 44, 641-652.	1.4	16
133	Prediction and Hindsight as Confirmatory Evidence. Philosophy of Science, 1955, 22, 227-230.	0.5	16
134	The future of information systems. Annals of Operations Research, 1997, 71, 3-14.	2.6	14
135	Darwinism, altruism and economics. , 2005, , 87-104.		13
136	Retention of visually presented information in children's spelling. Memory and Cognition, 1975, 3, 599-608.	0.9	12
137	The Role of Attention in Cognition. , 1986, , 105-115.		12
138	Quantification of Theoretical Terms and the Falsifiability of Theories. British Journal for the Philosophy of Science, 1985, 36, 291-298.	1.4	11
139	Reply to Dr. Mandelbrot's post scriptum. Information and Control, 1961, 4, 305-308.	1.3	10
140	A note on mathematical models for learning. Psychometrika, 1962, 27, 417-418.	1.2	10
141	Cognitive modeling in perspective. Kognitionswissenschaft, 1999, 8, 1-4.	0.4	10
142	Reply to "œfinal note" by Benoit Mandelbrot. Information and Control, 1961, 4, 217-223.	1.3	9
143	Reply to Touretzky and Pomerleau: Reconstructing Physical Symbol Systems. Cognitive Science, 1994, 18, 355-360.	0.8	9
144	Cognitive modeling in perspective. Kognitionswissenschaft, 1999, 8, 1-4.	0.4	9

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145	THE RIGHT REPRESENTATION FOR DISCOVERY: FINDING THE CONSERVATION OF MOMENTUM. , 1992, , 62-71.		9
146	Fitness Requirements for Scientific Theories. British Journal for the Philosophy of Science, 1983, 34, 355-365.	1.4	8
147	Scientific discovery as problem solving: Reply to critics. International Studies in the Philosophy of Science, 1992, 6, 69-88.	0.2	8
148	The State of American Political Science: Professor Lowi's View of Our Discipline. PS - Political Science and Politics, 1993, 26, 49-51.	0.3	8
149	Discovering Explanations. Minds and Machines, 1998, 8, 7-37.	2.7	8
150	Definable Terms and Primitives in Axiom Systems. Studies in Logic and the Foundations of Mathematics, 1959, 27, 443-453.	0.2	7
151	On the possibility of accurate public prediction. Journal of Socio-Economics, 1997, 26, 127-132.	1.0	7
152	<i>Response</i> : Altruism: Docility or Group Identification?. Science, 1991, 252, 192-192.	6.0	7
153	Foreword papers in honor of chester I. Barnard. International Journal of Public Administration, 1994, 17, 1021-1031.	1.4	6
154	Logic and Thought. Minds and Machines, 1997, 7, 365-385.	2.7	6
155	THE MIND'S EYE IN CHESS. , 1988, , 461-494.		6
156	Information Technology Research. Science, 1999, 285, 1849-1849.	6.0	5
157	Comments on the Seminar Report. American Political Science Review, 1953, 47, 658-675.	2.6	4
158	My Life Philosophy. American economist, The, 1985, 29, 15-20.	0.5	4
159	Satisficing. , 2008, , 1-3.		4
160	The Role of Experimentation in Scientific Theory Revision. , 1989, , 278-283.		4
161	Some properties of optimal linear filters. Quarterly of Applied Mathematics, 1955, 12, 438-440.	0.5	3
162	The analysis of complex socioeconomic systems. Journal of Comparative Economics, 1978, 2, 394-396.	1.1	2

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163	Behavioural Economics. , 2018, , 846-853.		2
164	Comment: The meaning and uses of models. Synth�se, 1961, 13, 173-174.	0.6	1
165	ECHO and STAHL: On the theory of combustion. Behavioral and Brain Sciences, 1989, 12, 487-487.	0.4	1
166	DIRECTIONS FOR QUALITATIVE REASONING. Computational Intelligence, 1992, 8, 308-315.	2.1	1
167	IFORS' Operational Research Hall of Fame. International Transactions in Operational Research, 2004, 11, 479-484.	1.8	1
168	Satisficing. , 2018, , 11933-11935.		1
169	Spurious Correlation: A Causal Interpretation. Boston Studies in the Philosophy and History of Science, 1977, , 93-106.	0.4	1
170	Thinking by Computers. Boston Studies in the Philosophy and History of Science, 1977, , 268-285.	0.4	1
171	Definable Terms and Primitives in Axiom Systems. Boston Studies in the Philosophy and History of Science, 1977, , 376-386.	0.4	1
172	Entscheidung und Rationalit�t. , 1977, , 9-75.		1
173	On the Nature of Understanding. , 1977, , 199-216.		1
174	Identifiability and the Status of Theoretical Terms. , 1977, , 43-61.		1
175	Causality in Device Behavior. , 1990, , 631-645.		1
176	Phenomenological reports as data. Behavioral and Brain Sciences, 1979, 2, 601-602.	0.4	0
177	Human and Machine Interpretation of Expressions in Formal Systems. Synth�se, 1998, 116, 439-461.	0.6	0
178	A Note on Almost-Everywhere Definability. Boston Studies in the Philosophy and History of Science, 1977, , 387-387.	0.4	0
179	Ramsey Eliminability and the Testability of Scientific Theories. Boston Studies in the Philosophy and History of Science, 1977, , 403-421.	0.4	0
180	Die Psychologie des Denkens. Computerkultur, 1994, , 46-73.	0.0	0