

Herbert A Simon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179
papers

40,641
citations

78
h-index

188
g-index

188
ext. papers

46,763
ext. citations

4
avg, IF

7.53
L-index

#	Paper	IF	Citations
179	A Behavioral Model of Rational Choice. <i>Quarterly Journal of Economics</i> , 1955 , 69, 99	15.1	6519
178	Perception in chess. <i>Cognitive Psychology</i> , 1973 , 4, 55-81	3.1	3040
177	Protocol Analysis 1993 ,		2592
176	Why a Diagram is (Sometimes) Worth Ten Thousand Words. <i>Cognitive Science</i> , 1987 , 11, 65-100	2.2	1787
175	Bounded Rationality and Organizational Learning. <i>Organization Science</i> , 1991 , 2, 125-134	3.6	1744
174	ON A CLASS OF SKEW DISTRIBUTION FUNCTIONS. <i>Biometrika</i> , 1955 , 42, 425-440	2	1497
173	Computer science as empirical inquiry. <i>Communications of the ACM</i> , 1976 , 19, 113-126	2.5	1374
172	The structure of ill structured problems. <i>Artificial Intelligence</i> , 1973 , 4, 181-201	3.6	1360
171	Invariants of human behavior. <i>Annual Review of Psychology</i> , 1990 , 41, 1-19	26.1	1103
170	Motivational and emotional controls of cognition. <i>Psychological Review</i> , 1967 , 74, 29-39	6.3	887
169	Organizations and Markets. <i>Journal of Economic Perspectives</i> , 1991 , 5, 25-44	9.9	869
168	Human Nature in Politics: The Dialogue of Psychology with Political Science. <i>American Political Science Review</i> , 1985 , 79, 293-304	4.5	816
167	Selective Perception: A Note on the Departmental Identifications of Executives. <i>Sociometry</i> , 1958 , 21, 140		727
166	Scientific Discovery 1987 ,		683
165	Situated Learning and Education. <i>Educational Researcher</i> , 1996 , 25, 5-11	4.8	666
164	Elements of a theory of human problem solving.. <i>Psychological Review</i> , 1958 , 65, 151-166	6.3	633
163	A mechanism for social selection and successful altruism. <i>Science</i> , 1990 , 250, 1665-8	33.3	571

162	The functional equivalence of problem solving skills. <i>Cognitive Psychology</i> , 1975 , 7, 268-288	3.1	504
161	THE MIND'S EYE IN CHESS 1973 , 215-281		499
160	The theory of learning by doing.. <i>Psychological Review</i> , 1979 , 86, 124-140	6.3	452
159	Aggregation of Variables in Dynamic Systems. <i>Econometrica</i> , 1961 , 29, 111	4.9	440
158	In search of insight. <i>Cognitive Psychology</i> , 1990 , 22, 374-419	3.1	387
157	From substantive to procedural rationality 1976 , 129-148		352
156	Templates in chess memory: a mechanism for recalling several boards. <i>Cognitive Psychology</i> , 1996 , 31, 1-40	3.1	346
155	Information processing models of cognition. <i>Annual Review of Psychology</i> , 1979 , 30, 363-96	26.1	304
154	Models of Discovery. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 ,	0.2	303
153	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	1.4	291
152	Models of Competence in Solving Physics Problems*. <i>Cognitive Science</i> , 1980 , 4, 317-345	2.2	285
151	A simulation of memory for chess positions. <i>Cognitive Psychology</i> , 1973 , 5, 29-46	3.1	274
150	Situated Action: A Symbolic Interpretation. <i>Cognitive Science</i> , 1993 , 17, 7-48	2.2	269
149	Dynamic Programming Under Uncertainty with a Quadratic Criterion Function. <i>Econometrica</i> , 1956 , 24, 74	4.9	262
148	What is an Explanation of Behavior?. <i>Psychological Science</i> , 1992 , 3, 150-161	7.9	260
147	Heuristic Problem Solving: The Next Advance in Operations Research. <i>Operations Research</i> , 1958 , 6, 1-102.3		255
146	Human problem solving: The state of the theory in 1970.. <i>American Psychologist</i> , 1971 , 26, 145-159	9.5	238
145	HUMAN ACQUISITION OF CONCEPTS FOR SEQUENTIAL PATTERNS. <i>Psychological Review</i> , 1963 , 70, 534-663		232

144	The understanding process: Problem isomorphs. <i>Cognitive Psychology</i> , 1976 , 8, 165-190	3.1	227
143	The Compensation of Executives. <i>Sociometry</i> , 1957 , 20, 32		222
142	Causality in device behavior. <i>Artificial Intelligence</i> , 1986 , 29, 3-32	3.6	217
141	Studies of scientific discovery: Complementary approaches and convergent findings.. <i>Psychological Bulletin</i> , 1999 , 125, 524-543	19.1	212
140	Learning Mathematics From Examples and by Doing. <i>Cognition and Instruction</i> , 1987 , 4, 137-166	2.3	210
139	Bounded rationality in social science: Today and tomorrow. <i>Mind and Society</i> , 2000 , 1, 25-39	0.9	206
138	STM capacity for Chinese words and idioms: chunking and acoustical loop hypotheses. <i>Memory and Cognition</i> , 1985 , 13, 193-201	2.2	202
137	The Processes of Scientific Discovery: The Strategy of Experimentation. <i>Cognitive Science</i> , 1988 , 12, 139-175		197
136	Spurious Correlation: A Causal Interpretation. <i>Journal of the American Statistical Association</i> , 1954 , 49, 467	2.8	190
135	Note: Some Conditions of Macroeconomic Stability. <i>Econometrica</i> , 1949 , 17, 245	4.9	185
134	Why a Diagram is (Sometimes) Worth Ten Thousand Words 1987 , 11, 65		184
133	Bandwagon and Underdog Effects and the Possibility of Election Predictions. <i>Public Opinion Quarterly</i> , 1954 , 18, 245	2.5	178
132	Perspectives on Learning, Thinking, and Activity. <i>Educational Researcher</i> , 2000 , 29, 11-13	4.8	164
131	Spurious Correlation: A Causal Interpretation*. <i>Journal of the American Statistical Association</i> , 1954 , 49, 467-479	2.8	158
130	Strategy and organizational evolution. <i>Strategic Management Journal</i> , 1993 , 14, 131-142	5.2	156
129	Expert chess memory: revisiting the chunking hypothesis. <i>Memory</i> , 1998 , 6, 225-55	1.8	151
128	Recall of rapidly presented random chess positions is a function of skill. <i>Psychonomic Bulletin and Review</i> , 1996 , 3, 159-63	4.1	148
127	Empirical tests of a theory of human acquisition of concepts for sequential patterns. <i>Cognitive Psychology</i> , 1973 , 4, 399-424	3.1	147

126	Cognitive Science: The Newest Science of the Artificial*. <i>Cognitive Science</i> , 1980 , 4, 33-46	2.2	140
125	Collaborative Discovery in a Scientific Domain. <i>Cognitive Science</i> , 1997 , 21, 109-146	2.2	133
124	Causality and model abstraction. <i>Artificial Intelligence</i> , 1994 , 67, 143-194	3.6	130
123	Five Seconds or Sixty? Presentation Time in Expert Memory. <i>Cognitive Science</i> , 2000 , 24, 651-682	2.2	127
122	Simulation of expert memory using EPAM IV. <i>Psychological Review</i> , 1995 , 102, 305-30	6.3	126
121	Complexity and the representation of patterned sequences of symbols.. <i>Psychological Review</i> , 1972 , 79, 369-382	6.3	126
120	A theory of the serial position effect. <i>British Journal of Psychology</i> , 1962 , 53, 307-20	4	121
119	Rationality in Political Behavior. <i>Political Psychology</i> , 1995 , 16, 45	3.6	118
118	Does Scientific Discovery Have a Logic?. <i>Philosophy of Science</i> , 1973 , 40, 471-480	1.1	116
117	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	7.9	108
116	Recall of random and distorted chess positions: implications for the theory of expertise. <i>Memory and Cognition</i> , 1996 , 24, 493-503	2.2	107
115	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		107
114	Information-processing analysis of perceptual processes in problem solving. <i>Psychological Review</i> , 1969 , 76, 473-83	6.3	102
113	Laboratory Replication of Scientific Discovery Processes. <i>Cognitive Science</i> , 1990 , 14, 281-312	2.2	100
112	Cause and Counterfactual. <i>Philosophy of Science</i> , 1966 , 33, 323-340	1.1	97
111	Problem Solving in Semantically Rich Domains: An Example from Engineering Thermodynamics*. <i>Cognitive Science</i> , 1977 , 1, 193-215	2.2	95
110	On the behavioral and rational foundations of economic dynamics. <i>Journal of Economic Behavior and Organization</i> , 1984 , 5, 35-55	1.6	92
109	What makes some problems really hard: Explorations in the problem space of difficulty. <i>Cognitive Psychology</i> , 1990 , 22, 143-183	3.1	91

108	Artificial intelligence: an empirical science. <i>Artificial Intelligence</i> , 1995 , 77, 95-127	3.6	90
107	Prediction and Prescription in Systems Modeling. <i>Operations Research</i> , 1990 , 38, 7-14	2.3	88
106	Scientific discovery as problem solving. <i>Synthese</i> , 1981 , 47, 1-27	0.8	84
105	Modeling strategy shifts in a problem-solving task. <i>Cognitive Psychology</i> , 1976 , 8, 86-97	3.1	84
104	Two Heads Are Better than One: The Collaboration between AI and OR. <i>Interfaces</i> , 1987 , 17, 8-15	0.7	81
103	On the Definition of the Causal Relation. <i>The Journal of Philosophy</i> , 1952 , 49, 517	2.2	80
102	EPAM-like Models of Recognition and Learning*. <i>Cognitive Science</i> , 1984 , 8, 305-336	2.2	79
101	Some further notes on a class of skew distribution functions. <i>Information and Control</i> , 1960 , 3, 80-88		75
100	CaMeRa: A Computational Model of Multiple Representations. <i>Cognitive Science</i> , 1997 , 21, 305-350	2.2	73
99	From substantive to procedural rationality 1976 , 65-86		73
98	A comparison of game theory and learning theory. <i>Psychometrika</i> , 1956 , 21, 267-272	2.2	72
97	On Parsimonious Explanations of Production Relations. <i>Scandinavian Journal of Economics</i> , 1979 , 81, 459	1	68
96	Context effects in letter perception: comparison of two theories. <i>Psychological Review</i> , 1989 , 96, 417-236.3		61
95	A theory of historical discovery: The construction of componential models. <i>Machine Learning</i> , 1986 , 1, 107-137	4	59
94	The information processing explanation of Gestalt phenomena. <i>Computers in Human Behavior</i> , 1986 , 2, 241-255	7.7	59
93	Alternative Uses of Phonemic Information in Spelling. <i>Review of Educational Research</i> , 1973 , 43, 115-137	10.3	54
92	A study of how individuals solve complex and ill-structured problems. <i>Policy Sciences</i> , 1999 , 32, 225-245	4.3	53
91	A Formal Theory of Interaction in Social Groups. <i>American Sociological Review</i> , 1952 , 17, 202	10.1	50

90	Effects of Increased Productivity upon the Ratio of Urban to Rural Population. <i>Econometrica</i> , 1947 , 15, 31	4.9	49
89	Situated Action: Reply to William Clancey. <i>Cognitive Science</i> , 1993 , 17, 117-133	2.2	48
88	Processes for sequence production.. <i>Psychological Review</i> , 1974 , 81, 187-198	6.3	44
87	A Note on the Cobb-Douglas Function. <i>Review of Economic Studies</i> , 1963 , 30, 93	5.6	43
86	THE LOGIC OF RATIONAL DECISION. <i>British Journal for the Philosophy of Science</i> , 1965 , 16, 169-186	1.7	41
85	The Axiomatization of Physical Theories. <i>Philosophy of Science</i> , 1970 , 37, 16-26	1.1	41
84	Comments on the Theory of Organizations*. <i>American Political Science Review</i> , 1952 , 46, 1130-1139	4.5	39
83	STM capacity for Chinese and English language materials. <i>Memory and Cognition</i> , 1985 , 13, 202-7	2.2	35
82	Modeling semantic memory: Effects of presenting semantic information in different modalities. <i>Cognitive Psychology</i> , 1977 , 9, 293-325	3.1	34
81	Causality in Bayesian Belief Networks 1993 , 3-11		33
80	Causal ordering, comparative statics, and near decomposability. <i>Journal of Econometrics</i> , 1988 , 39, 149-178	1.7	30
79	Creativity and motivation: A response to Csikszentmihalyi. <i>New Ideas in Psychology</i> , 1988 , 6, 177-181	2.5	30
78	Scientific discovery and simplicity of method. <i>Artificial Intelligence</i> , 1997 , 91, 177-181	3.6	27
77	Pattern recognition makes search possible: Comments on Holding (1992). <i>Psychological Research</i> , 1998 , 61, 204-208	2.5	22
76	The behavioral approach: With emphasis on economics. <i>Systems Research and Behavioral Science</i> , 1983 , 28, 95-108		21
75	Barriers and bounds to Rationality. <i>Structural Change and Economic Dynamics</i> , 2000 , 11, 243-253	4.5	20
74	Nonmonotonic Reasoning and Causation: Comment. <i>Cognitive Science</i> , 1991 , 15, 293-300	2.2	20
73	The Axiomatization of Classical Mechanics. <i>Philosophy of Science</i> , 1954 , 21, 340-343	1.1	20

72	What Have Psychologists (And Others) Discovered About the Process of Scientific Discovery?. <i>Current Directions in Psychological Science</i> , 2001 , 10, 75-79	6.5	19
71	Chapter 1 The game of chess. <i>Handbook of Game Theory With Economic Applications</i> , 1992 , 1, 1-17		19
70	What We Know About Learning*. <i>Journal of Engineering Education</i> , 1998 , 87, 343-348	2.3	18
69	Normative systems of discovery and logic of search. <i>Synthese</i> , 1988 , 74, 65-90	0.8	18
68	An information-processing explanation of one-trial and incremental learning. <i>Journal of Verbal Learning and Verbal Behavior</i> , 1967 , 6, 780-787		18
67	Trial and error search in solving difficult problems: Evidence from the game of chess. <i>Systems Research and Behavioral Science</i> , 2007 , 7, 425-429		17
66	A Theory of Historical Discovery: The Construction of Componential Models. <i>Machine Learning</i> , 1986 , 1, 107-137	4	17
65	XCIII. The axioms of Newtonian mechanics. <i>The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science</i> , 1947 , 38, 888-905		17
64	Scientific discovery as problem solving. <i>International Studies in the Philosophy of Science</i> , 1992 , 6, 3-14	0.5	16
63	An information-processing explanation of some perceptual phenomena. <i>British Journal of Psychology</i> , 1967 , 58, 1-12	4	16
62	Information-processing models of cognition. <i>Journal of the Association for Information Science and Technology</i> , 1981 , 32, 364-377		15
61	The rural-urban population balance again. <i>Regional Science and Urban Economics</i> , 1982 , 12, 599-606	2.2	15
60	Some monte carlo estimates of the yule distribution. <i>Systems Research and Behavioral Science</i> , 2007 , 8, 203-210		14
59	Complex Systems: The Interplay of Organizations and Markets in Contemporary Society. <i>Computational and Mathematical Organization Theory</i> , 2001 , 7, 79-85	2.1	13
58	RAMSEY ELIMINABILITY AND THE TESTABILITY OF SCIENTIFIC THEORIES. <i>British Journal for the Philosophy of Science</i> , 1973 , 24, 367-380	1.7	13
57	Amounts of fixation and discovery in maze learning behavior. <i>Psychometrika</i> , 1957 , 22, 261-268	2.2	13
56	Internal representation and rule development in object-oriented design. <i>ACM Transactions on Computer-Human Interaction</i> , 1995 , 2, 357-390	4.7	12
55	Fitness Requirements for Scientific Theories Containing Recursive Theoretical Terms. <i>British Journal for the Philosophy of Science</i> , 1993 , 44, 641-652	1.7	12

54	Prediction and Hindsight as Confirmatory Evidence. <i>Philosophy of Science</i> , 1955 , 22, 227-230	1.1	12
53	Situated Action: Reply to Reviewers. <i>Cognitive Science</i> , 1993 , 17, 77-86	2.2	11
52	Retention of visually presented information in children's spelling. <i>Memory and Cognition</i> , 1975 , 3, 599-608	2.2	11
51	Computer modeling of scientific and mathematical discovery processes. <i>Bulletin of the American Mathematical Society</i> , 1984 , 11, 247-263	1.3	11
50	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	1.4	10
49	The future of information systems. <i>Annals of Operations Research</i> , 1997 , 71, 3-14	3.2	9
48	The Role of Attention in Cognition 1986 , 105-115		9
47	A note on mathematical models for learning. <i>Psychometrika</i> , 1962 , 27, 417-418	2.2	9
46	Fitness Requirements for Scientific Theories. <i>British Journal for the Philosophy of Science</i> , 1983 , 34, 355-365		8
45	The Logic of Heuristic Decision Making. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 154-175	0.2	8
44	Cognitive modeling in perspective. <i>Kognitionswissenschaft</i> , 1999 , 8, 1-4		7
43	Scientific discovery as problem solving: Reply to critics. <i>International Studies in the Philosophy of Science</i> , 1992 , 6, 69-88	0.5	7
42	Quantification of Theoretical Terms and the Falsifiability of Theories. <i>British Journal for the Philosophy of Science</i> , 1985 , 36, 291-298	1.7	7
41	Definable Terms and Primitives in Axiom Systems. <i>Studies in Logic and the Foundations of Mathematics</i> , 1959 , 27, 443-453		7
40	Reply to final note by Benoit Mandelbrot. <i>Information and Control</i> , 1961 , 4, 217-223		7
39	Discovering Explanations. <i>Minds and Machines</i> , 1998 , 8, 7-37	4.9	6
38	Darwinism, altruism and economics 2005 , 87-104		6
37	Reply to Dr. Mandelbrot's post scriptum. <i>Information and Control</i> , 1961 , 4, 305-308		6

36	Does Scientific Discovery Have a Logic?. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 326-337	0.2	6
35	On Judging the Plausibility of Theories. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 25-45	0.2	6
34	Response : Altruism: Docility or Group Identification?. <i>Science</i> , 1991 , 252, 192-192	33.3	6
33	Logic and Thought. <i>Minds and Machines</i> , 1997 , 7, 365-385	4.9	5
32	Reply to Touretzky and Pomerleau: Reconstructing Physical Symbol Systems. <i>Cognitive Science</i> , 1994 , 18, 355-360	2.2	5
31	Causal Ordering and Identifiability. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 53-80	0.2	5
30	THE MIND'S EYE IN CHESS 1988 , 461-494		5
29	On the possibility of accurate public prediction. <i>Journal of Socio-Economics</i> , 1997 , 26, 127-132		4
28	The State of American Political Science: Professor Lowi's View of Our Discipline. <i>PS - Political Science and Politics</i> , 1993 , 26, 49-51	0.4	4
27	Foreword papers in honor of chester I. Barnard. <i>International Journal of Public Administration</i> , 1994 , 17, 1021-1031	1.7	3
26	My Life Philosophy. <i>American economist, The</i> , 1985 , 29, 15-20	0.3	3
25	THE RIGHT REPRESENTATION FOR DISCOVERY: FINDING THE CONSERVATION OF MOMENTUM 1992 , 62-71		3
24	Comments on the Seminar Report. <i>American Political Science Review</i> , 1953 , 47, 658-675	4.5	2
23	Some properties of optimal linear filters. <i>Quarterly of Applied Mathematics</i> , 1955 , 12, 438-440	0.7	2
22	Die natürllichen und die künstlichen Welten verstehen. <i>Computerkultur</i> , 1994 , 1-21		2
21	IFORS' Operational Research Hall of Fame. <i>International Transactions in Operational Research</i> , 2004 , 11, 479-484	2.9	1
20	DIRECTIONS FOR QUALITATIVE REASONING. <i>Computational Intelligence</i> , 1992 , 8, 308-315	2.5	1
19	The Role of Experimentation in Scientific Theory Revision 1989 , 278-283		1

18	Causality in Device Behavior 1990 , 631-645		1
17	Spurious Correlation: A Causal Interpretation. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 93-106	0.2	1
16	Identifiability and the Status of Theoretical Terms 1977 , 43-61		1
15	Comment: The meaning and uses of models. <i>Synthese</i> , 1961 , 13, 173-174	0.8	0
14	Entscheidung und Rationalität 1977 , 9-75		0
13	Human and Machine Interpretation of Expressions in Formal Systems. <i>Synthese</i> , 1998 , 116, 439-461	0.8	
12	ECHO and STAHL: On the theory of combustion. <i>Behavioral and Brain Sciences</i> , 1989 , 12, 487-487	0.9	
11	Phenomenological reports as data. <i>Behavioral and Brain Sciences</i> , 1979 , 2, 601-602	0.9	
10	Die Psychologie des Denkens. <i>Computerkultur</i> , 1994 , 46-73		
9	Die Psychologie des Denkens. <i>Computerkultur</i> , 1994 , 46-73		
8	Die natürlichen und die künstlichen Welten verstehen. <i>Computerkultur</i> , 1994 , 1-21		
7	Information Technology Research. <i>Science</i> , 1999 , 285, 1849-1849		33.3
6	Thinking by Computers. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 268-285	0.2	
5	Definable Terms and Primitives in Axiom Systems. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 376-386	0.2	
4	Identifiability and the Status of Theoretical Terms. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 422-440	0.2	
3	On the Nature of Understanding 1977 , 199-216		
2	A Note on Almost-Everywhere Definability. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 387-387	0.2	
1	Ramsey Eliminability and the Testability of Scientific Theories. <i>Boston Studies in the Philosophy and History of Science</i> , 1977 , 403-421	0.2	

