Herbert A Simon

List of Publications by Year in Descending Order

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	Trial and error search in solving difficult problems: Evidence from the game of chess. *Systems Research and Behavioral Science*, **2007**, 7, 425-429		17
178	Some monte carlo estimates of the yule distribution. *Systems Research and Behavioral Science*, **2007**, 8, 203-210		14
177	Darwinism, altruism and economics **2005**, 87-104		6
176	IFORS' Operational Research Hall of Fame. *International Transactions in Operational Research*, **2004**, 11, 479-484	2.9	1
175	Complex Systems: The Interplay of Organizations and Markets in Contemporary Society. *Computational and Mathematical Organization Theory*, **2001**, 7, 79-85	2.1	13
174	What Have Psychologists (And Others) Discovered About the Process of Scientific Discovery?. *Current Directions in Psychological Science*, **2001**, 10, 75-79	6.5	19
173	Five Seconds or Sixty? Presentation Time in Expert Memory. *Cognitive Science*, **2000**, 24, 651-682	2.2	127
172	Bounded rationality in social science: Today and tomorrow. *Mind and Society*, **2000**, 1, 25-39	0.9	206
171	Perspectives on Learning, Thinking, and Activity. *Educational Researcher*, **2000**, 29, 11-13	4.8	164
170	Barriers and bounds to Rationality. *Structural Change and Economic Dynamics*, **2000**, 11, 243-253	4.5	20
169	A study of how individuals solve complex and ill-structured problems. *Policy Sciences*, **1999**, 32, 225-245	4.3	53
168	Cognitive modeling in perspective. *Kognitionswissenschaft*, **1999**, 8, 1-4		7
167	Studies of scientific discovery: Complementary approaches and convergent findings.. *Psychological Bulletin*, **1999**, 125, 524-543	19.1	212
166	Information Technology Research. *Science*, **1999**, 285, 1849-1849	33.3	
165	Discovering Explanations. *Minds and Machines*, **1998**, 8, 7-37	4.9	6
164	Human and Machine Interpretation of Expressions in Formal Systems. *Synthse*, **1998**, 116, 439-461	0.8	
163	Pattern recognition makes search possible: Comments on Holding (1992). *Psychological Research*, **1998**, 61, 204-208	2.5	22

162	How to Study Thinking in Everyday Life: Contrasting Think-Aloud Protocols With Descriptions and Explanations of Thinking. *Mind, Culture, and Activity*, **1998**, 5, 178-186	1.4	291
161	Expert chess memory: revisiting the chunking hypothesis. *Memory*, **1998**, 6, 225-55	1.8	151
160	What We Know About Learning*. *Journal of Engineering Education*, **1998**, 87, 343-348	2.3	18
159	Goals, Representations, and Strategies in a Concept Attainment Task: the EPAM Model. *Psychology of Learning and Motivation - Advances in Research and Theory*, **1997**, 37, 265-290	1.4	10
158	On the possibility of accurate public prediction. *Journal of Socio-Economics*, **1997**, 26, 127-132		4
157	Scientific discovery and simplicity of method. *Artificial Intelligence*, **1997**, 91, 177-181	3.6	27
156	Collaborative Discovery in a Scientific Domain. *Cognitive Science*, **1997**, 21, 109-146	2.2	133
155	CaMeRa: A Computational Model of Multiple Representations. *Cognitive Science*, **1997**, 21, 305-350	2.2	73
154	Logic and Thought. *Minds and Machines*, **1997**, 7, 365-385	4.9	5
153	The future of information systems. *Annals of Operations Research*, **1997**, 71, 3-14	3.2	9
152	Situated Learning and Education. *Educational Researcher*, **1996**, 25, 5-11	4.8	666
151	Recall of random and distorted chess positions: implications for the theory of expertise. *Memory and Cognition*, **1996**, 24, 493-503	2.2	107
150	Recall of rapidly presented random chess positions is a function of skill. *Psychonomic Bulletin and Review*, **1996**, 3, 159-63	4.1	148
149	Templates in chess memory: a mechanism for recalling several boards. *Cognitive Psychology*, **1996**, 31, 1-40	3.1	346
148	The Roles of Recognition Processes and Look-Ahead Search in Time-Constrained Expert Problem Solving: Evidence From Grand-Master-Level Chess. *Psychological Science*, **1996**, 7, 52-55	7.9	108
147	Rationality in Political Behavior. *Political Psychology*, **1995**, 16, 45	3.6	118
146	Internal representation and rule development in object-oriented design. *ACM Transactions on Computer-Human Interaction*, **1995**, 2, 357-390	4.7	12
145	Simulation of expert memory using EPAM IV. *Psychological Review*, **1995**, 102, 305-30	6.3	126

144	Artificial intelligence: an empirical science. *Artificial Intelligence*, **1995**, 77, 95-127	3.6	90
143	Foreword papers in honor of chester I. Barnard. *International Journal of Public Administration*, **1994**, 17, 1021-1031	1.7	3
142	Causality and model abstraction. *Artificial Intelligence*, **1994**, 67, 143-194	3.6	130
141	Reply to Touretzky and Pomerleau: Reconstructing Physical Symbol Systems. *Cognitive Science*, **1994**, 18, 355-360	2.2	5
140	Die Psychologie des Denkens. *Computerkultur*, **1994**, 46-73		
139	Die Psychologie des Denkens. *Computerkultur*, **1994**, 46-73		
138	Die natürlichen und die künstlichen Welten verstehen. *Computerkultur*, **1994**, 1-21		
137	Die natürlichen und die künstlichen Welten verstehen. *Computerkultur*, **1994**, 1-21		2
136	Fitness Requirements for Scientific Theories Containing Recursive Theoretical Terms. *British Journal for the Philosophy of Science*, **1993**, 44, 641-652	1.7	12
135	The State of American Political Science: Professor Lowi's View of Our Discipline. *PS - Political Science and Politics*, **1993**, 26, 49-51	0.4	4
134	Strategy and organizational evolution. *Strategic Management Journal*, **1993**, 14, 131-142	5.2	156
133	Situated Action: A Symbolic Interpretation. *Cognitive Science*, **1993**, 17, 7-48	2.2	269
132	Situated Action: Reply to Reviewers. *Cognitive Science*, **1993**, 17, 77-86	2.2	11
131	Situated Action: Reply to William Clancey. *Cognitive Science*, **1993**, 17, 117-133	2.2	48
130	Protocol Analysis **1993**,		2592
129	Causality in Bayesian Belief Networks **1993**, 3-11		33
128	Scientific discovery as problem solving. *International Studies in the Philosophy of Science*, **1992**, 6, 3-14	0.5	16
127	Scientific discovery as problem solving: Reply to critics. *International Studies in the Philosophy of Science*, **1992**, 6, 69-88	0.5	7

126	Chapter 1 The game of chess. *Handbook of Game Theory With Economic Applications*, **1992**, 1, 1-17		19
125	What is an Explanation of Behavior?. *Psychological Science*, **1992**, 3, 150-161	7.9	260
124	DIRECTIONS FOR QUALITATIVE REASONING. *Computational Intelligence*, **1992**, 8, 308-315	2.5	1
123	THE RIGHT REPRESENTATION FOR DISCOVERY: FINDING THE CONSERVATION OF MOMENTUM **1992**, 62-71		3
122	Organizations and Markets. *Journal of Economic Perspectives*, **1991**, 5, 25-44	9.9	869
121	Nonmonotonic Reasoning and Causation: Comment. *Cognitive Science*, **1991**, 15, 293-300	2.2	20
120	Bounded Rationality and Organizational Learning. *Organization Science*, **1991**, 2, 125-134	3.6	1744
119	Response : Altruism: Docility or Group Identification?. *Science*, **1991**, 252, 192-192	33.3	6
118	In search of insight. *Cognitive Psychology*, **1990**, 22, 374-419	3.1	387
117	What makes some problems really hard: Explorations in the problem space of difficulty. *Cognitive Psychology*, **1990**, 22, 143-183	3.1	91
116	Laboratory Replication of Scientific Discovery Processes. *Cognitive Science*, **1990**, 14, 281-312	2.2	100
115	Prediction and Prescription in Systems Modeling. *Operations Research*, **1990**, 38, 7-14	2.3	88
114	A mechanism for social selection and successful altruism. *Science*, **1990**, 250, 1665-8	33.3	571
113	Invariants of human behavior. *Annual Review of Psychology*, **1990**, 41, 1-19	26.1	1103
112	Causality in Device Behavior **1990**, 631-645		1
111	ECHO and STAHL: On the theory of combustion. *Behavioral and Brain Sciences*, **1989**, 12, 487-487	0.9	
110	Context effects in letter perception: comparison of two theories. *Psychological Review*, **1989**, 96, 417-236.3		61
109	The Role of Experimentation in Scientific Theory Revision **1989**, 278-283		1

108	Normative systems of discovery and logic of search. *Synthese*, **1988**, 74, 65-90	0.8	18
107	Causal ordering, comparative statics, and near decomposability. *Journal of Econometrics*, **1988**, 39, 149-173	1.6	30
106	The Processes of Scientific Discovery: The Strategy of Experimentation. *Cognitive Science*, **1988**, 12, 139-175	1.25	197
105	Creativity and motivation: A response to Csikszentmihalyi. *New Ideas in Psychology*, **1988**, 6, 177-181	2.5	30
104	THE MIND'S EYE IN CHESS **1988**, 461-494		5
103	Learning Mathematics From Examples and by Doing. *Cognition and Instruction*, **1987**, 4, 137-166	2.3	210
102	Two Heads Are Better than One: The Collaboration between AI and OR. *Interfaces*, **1987**, 17, 8-15	0.7	81
101	Why a Diagram is (Sometimes) Worth Ten Thousand Words. *Cognitive Science*, **1987**, 11, 65-100	2.2	1787
100	Scientific Discovery **1987**,		683
99	Why a Diagram is (Sometimes) Worth Ten Thousand Words **1987**, 11, 65		184
98	Causality in device behavior. *Artificial Intelligence*, **1986**, 29, 3-32	3.6	217
97	A theory of historical discovery: The construction of componential models. *Machine Learning*, **1986**, 1, 107-137	4	59
96	The information processing explanation of Gestalt phenomena. *Computers in Human Behavior*, **1986**, 2, 241-255	7.7	59
95	A Theory of Historical Discovery: The Construction of Componential Models. *Machine Learning*, **1986**, 1, 107-137	4	17
94	The Role of Attention in Cognition **1986**, 105-115		9
93	My Life Philosophy. *American economist, The*, **1985**, 29, 15-20	0.3	3
92	STM capacity for Chinese words and idioms: chunking and acoustical loop hypotheses. *Memory and Cognition*, **1985**, 13, 193-201	2.2	202
91	STM capacity for Chinese and English language materials. *Memory and Cognition*, **1985**, 13, 202-7	2.2	35

90	Quantification of Theoretical Terms and the Falsifiability of Theories. *British Journal for the Philosophy of Science*, **1985**, 36, 291-298	1.7	7
89	Human Nature in Politics: The Dialogue of Psychology with Political Science. *American Political Science Review*, **1985**, 79, 293-304	4.5	816
88	EPAM-like Models of Recognition and Learning*. *Cognitive Science*, **1984**, 8, 305-336	2.2	79
87	On the behavioral and rational foundations of economic dynamics. *Journal of Economic Behavior and Organization*, **1984**, 5, 35-55	1.6	92
86	Computer modeling of scientific and mathematical discovery processes. *Bulletin of the American Mathematical Society*, **1984**, 11, 247-263	1.3	11
85	The behavioral approach: With emphasis on economics. *Systems Research and Behavioral Science*, **1983**, 28, 95-108		21
84	Fitness Requirements for Scientific Theories. *British Journal for the Philosophy of Science*, **1983**, 34, 355-365	1.7	8
83	The rural-urban population balance again. *Regional Science and Urban Economics*, **1982**, 12, 599-606	2.2	15
82	Scientific discovery as problem solving. *Synthese*, **1981**, 47, 1-27	0.8	84
81	Information-processing models of cognition. *Journal of the Association for Information Science and Technology*, **1981**, 32, 364-377		15
80	Cognitive Science: The Newest Science of the Artificial*. *Cognitive Science*, **1980**, 4, 33-46	2.2	140
79	Models of Competence in Solving Physics Problems*. *Cognitive Science*, **1980**, 4, 317-345	2.2	285
78	Information processing models of cognition. *Annual Review of Psychology*, **1979**, 30, 363-96	26.1	304
77	The theory of learning by doing.. *Psychological Review*, **1979**, 86, 124-140	6.3	452
76	On Parsimonious Explanations of Production Relations. *Scandinavian Journal of Economics*, **1979**, 81, 459	1	68
75	Phenomenological reports as data. *Behavioral and Brain Sciences*, **1979**, 2, 601-602	0.9	
74	The Logic of Heuristic Decision Making. *Boston Studies in the Philosophy and History of Science*, **1977**, 154-175	0.2	8
73	Models of Discovery. *Boston Studies in the Philosophy and History of Science*, **1977**,	0.2	303

72	Problem Solving in Semantically Rich Domains: An Example from Engineering Thermodynamics*. *Cognitive Science*, **1977**, 1, 193-215	2.2	95
71	Modeling semantic memory: Effects of presenting semantic information in different modalities. *Cognitive Psychology*, **1977**, 9, 293-325	3.1	34
70	Does Scientific Discovery Have a Logic?. *Boston Studies in the Philosophy and History of Science*, **1977** , 326-337	0.2	6
69	On Judging the Plausibility of Theories. *Boston Studies in the Philosophy and History of Science*, **1977** , 25-45	0.2	6
68	Causal Ordering and Identifiability. *Boston Studies in the Philosophy and History of Science*, **1977**, 53-80	0.2	5
67	Spurious Correlation: A Causal Interpretation. *Boston Studies in the Philosophy and History of Science* , **1977**, 93-106	0.2	1
66	Thinking by Computers. *Boston Studies in the Philosophy and History of Science*, **1977**, 268-285	0.2	
65	Definable Terms and Primitives in Axiom Systems. *Boston Studies in the Philosophy and History of Science*, **1977**, 376-386	0.2	
64	Identifiability and the Status of Theoretical Terms. *Boston Studies in the Philosophy and History of Science*, **1977**, 422-440	0.2	
63	Entscheidung und Rationalit **1977**, 9-75		0
62	On the Nature of Understanding **1977**, 199-216		
61	A Note on Almost-Everywhere Definability. *Boston Studies in the Philosophy and History of Science*, **1977**, 387-387	0.2	
60	Ramsey Eliminability and the Testability of Scientific Theories. *Boston Studies in the Philosophy and History of Science*, **1977**, 403-421	0.2	
59	Identifiability and the Status of Theoretical Terms **1977**, 43-61		1
58	Computer science as empirical inquiry. *Communications of the ACM*, **1976**, 19, 113-126	2.5	1374
57	From substantive to procedural rationality **1976**, 129-148		352
56	Modeling strategy shifts in a problem-solving task. *Cognitive Psychology*, **1976**, 8, 86-97	3.1	84
55	The understanding process: Problem isomorphs. *Cognitive Psychology*, **1976**, 8, 165-190	3.1	227

54	From substantive to procedural rationality **1976**, 65-86		73
53	The functional equivalence of problem solving skills. *Cognitive Psychology*, **1975**, 7, 268-288	3.1	504
52	Retention of visually presented information in children's spelling. *Memory and Cognition*, **1975**, 3, 599-608	2.2	11
51	Processes for sequence production.. *Psychological Review*, **1974**, 81, 187-198	6.3	44
50	The structure of ill structured problems. *Artificial Intelligence*, **1973**, 4, 181-201	3.6	1360
49	Perception in chess. *Cognitive Psychology*, **1973**, 4, 55-81	3.1	3040
48	Empirical tests of a theory of human acquisition of concepts for sequential patterns. *Cognitive Psychology*, **1973**, 4, 399-424	3.1	147
47	A simulation of memory for chess positions. *Cognitive Psychology*, **1973**, 5, 29-46	3.1	274
46	Alternative Uses of Phonemic Information in Spelling. *Review of Educational Research*, **1973**, 43, 115-137	10.3	54
45	RAMSEY ELIMINABILITY AND THE TESTABILITY OF SCIENTIFIC THEORIES. *British Journal for the Philosophy of Science*, **1973**, 24, 367-380	1.7	13
44	Does Scientific Discovery Have a Logic?. *Philosophy of Science*, **1973**, 40, 471-480	1.1	116
43	THE MIND'S EYE IN CHESS **1973**, 215-281		499
42	Complexity and the representation of patterned sequences of symbols.. *Psychological Review*, **1972**, 79, 369-382	6.3	126
41	Human problem solving: The state of the theory in 1970.. *American Psychologist*, **1971**, 26, 145-159	9.5	238
40	The Axiomatization of Physical Theories. *Philosophy of Science*, **1970**, 37, 16-26	1.1	41
39	Information-processing analysis of perceptual processes in problem solving. *Psychological Review*, **1969**, 76, 473-83	6.3	102
38	Motivational and emotional controls of cognition. *Psychological Review*, **1967**, 74, 29-39	6.3	887
37	An information-processing explanation of some perceptual phenomena. *British Journal of Psychology*, **1967**, 58, 1-12	4	16

36	An information-processing explanation of one-trial and incremental learning. *Journal of Verbal Learning and Verbal Behavior*, **1967**, 6, 780-787		18
35	Cause and Counterfactual. *Philosophy of Science*, **1966**, 33, 323-340	1.1	97
34	THE LOGIC OF RATIONAL DECISION. *British Journal for the Philosophy of Science*, **1965**, 16, 169-186	1.7	41
33	An information-processing theory of some effects of similarity, familiarization, and meaningfulness in verbal learning. *Journal of Verbal Learning and Verbal Behavior*, **1964**, 3, 385-396		107
32	A Note on the Cobb-Douglas Function. *Review of Economic Studies*, **1963**, 30, 93	5.6	43
31	HUMAN ACQUISITION OF CONCEPTS FOR SEQUENTIAL PATTERNS. *Psychological Review*, **1963**, 70, 534-546	6.3	232
30	A theory of the serial position effect. *British Journal of Psychology*, **1962**, 53, 307-20	4	121
29	A note on mathematical models for learning. *Psychometrika*, **1962**, 27, 417-418	2.2	9
28	Reply to final note by Benoit Mandelbrot. *Information and Control*, **1961**, 4, 217-223		7
27	Reply to Dr. Mandelbrot's post scriptum. *Information and Control*, **1961**, 4, 305-308		6
26	Comment: The meaning and uses of models. *Synthese*, **1961**, 13, 173-174	0.8	0
25	Aggregation of Variables in Dynamic Systems. *Econometrica*, **1961**, 29, 111	4.9	440
24	Some further notes on a class of skew distribution functions. *Information and Control*, **1960**, 3, 80-88		75
23	Definable Terms and Primitives in Axiom Systems. *Studies in Logic and the Foundations of Mathematics*, **1959**, 27, 443-453		7
22	Elements of a theory of human problem solving.. *Psychological Review*, **1958**, 65, 151-166	6.3	633
21	Selective Perception: A Note on the Departmental Identifications of Executives. *Sociometry*, **1958**, 21, 140		727
20	Heuristic Problem Solving: The Next Advance in Operations Research. *Operations Research*, **1958**, 6, 1-10	2.3	255
19	The Compensation of Executives. *Sociometry*, **1957**, 20, 32		222

18	Amounts of fixation and discovery in maze learning behavior. *Psychometrika*, **1957**, 22, 261-268	2.2	13
17	Dynamic Programming Under Uncertainty with a Quadratic Criterion Function. *Econometrica*, **1956**, 24, 74	4.9	262
16	A comparison of game theory and learning theory. *Psychometrika*, **1956**, 21, 267-272	2.2	72
15	A Behavioral Model of Rational Choice. *Quarterly Journal of Economics*, **1955**, 69, 99	15.1	6519
14	Prediction and Hindsight as Confirmatory Evidence. *Philosophy of Science*, **1955**, 22, 227-230	1.1	12
13	Some properties of optimal linear filters. *Quarterly of Applied Mathematics*, **1955**, 12, 438-440	0.7	2
12	ON A CLASS OF SKEW DISTRIBUTION FUNCTIONS. *Biometrika*, **1955**, 42, 425-440	2	1497
11	The Axiomatization of Classical Mechanics. *Philosophy of Science*, **1954**, 21, 340-343	1.1	20
10	Bandwagon and Underdog Effects and the Possibility of Election Predictions. *Public Opinion Quarterly*, **1954**, 18, 245	2.5	178
9	Spurious Correlation: A Causal Interpretation*. *Journal of the American Statistical Association*, **1954**, 49, 467-479	2.8	158
8	Spurious Correlation: A Causal Interpretation. *Journal of the American Statistical Association*, **1954**, 49, 467	2.8	190
7	Comments on the Seminar Report. *American Political Science Review*, **1953**, 47, 658-675	4.5	2
6	A Formal Theory of Interaction in Social Groups. *American Sociological Review*, **1952**, 17, 202	10.1	50
5	Comments on the Theory of Organizations*. *American Political Science Review*, **1952**, 46, 1130-1139	4.5	39
4	On the Definition of the Causal Relation. *The Journal of Philosophy*, **1952**, 49, 517	2.2	80
3	Note: Some Conditions of Macroeconomic Stability. *Econometrica*, **1949**, 17, 245	4.9	185
2	XCIII. The axioms of Newtonian mechanics. *The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science*, **1947**, 38, 888-905		17
1	Effects of Increased Productivity upon the Ratio of Urban to Rural Population. *Econometrica*, **1947**, 15, 31	4.9	49