

# James A Hendler

## List of Publications by Year in Descending Order

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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.

130  
papers

11,049  
citations

32  
h-index

105  
g-index

152  
ext. papers

13,066  
ext. citations

4  
avg. IF

6.37  
L-index

#	Paper	IF	Citations
130	Knowledge graphs: Introduction, history, and perspectives. <i>AI Magazine</i> , <b>2022</b> , 43, 17-29	6.1	1
129	A Response to Néz et al.'s (2019) "What Happened to Cognitive Science?". <i>Topics in Cognitive Science</i> , <b>2019</b> , 11, 914-917	2.5	2
128	A Journal for Human and Machine. <i>Data Intelligence</i> , <b>2019</b> , 1, 1-5	3	
127	Towards a Cyberphysical Web Science <b>2019</b> ,		2
126	Deep learning for noise-tolerant RDFS reasoning <sup>1</sup> . <i>Semantic Web</i> , <b>2019</b> , 10, 823-862	2.4	7
125	The Importance of Authoritative URI Design Schemes for Open Government Data <b>2018</b> , 2181-2199		
124	Knowledge Integration for Disease Characterization: A Breast Cancer Example. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 223-238	0.9	5
123	Efficient Classification of Supercomputer Failures Using Neuromorphic Computing <b>2018</b> ,		1
122	. <i>Computer</i> , <b>2018</b> , 51, 12-17	1.6	1
121	Analyzing the Flow of Trust in the Virtual World With Semantic Web Technologies. <i>IEEE Transactions on Computational Social Systems</i> , <b>2018</b> , 5, 807-815	4.5	4
120	In-context query reformulation for failing SPARQL queries <b>2017</b> ,		1
119	Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems. <i>Big Data</i> , <b>2017</b> , 5, 19-31	3.1	10
118	Computers Play Chess, Computers Play Go Humans Play Dungeons & Dragons. <i>IEEE Intelligent Systems</i> , <b>2017</b> , 32, 31-34	4.2	0
117	Cognitive Computing. <i>IEEE Intelligent Systems</i> , <b>2017</b> , 32, 3-4	4.2	
116	. <i>IEEE Transactions on Computational Social Systems</i> , <b>2017</b> , 4, 207-217	4.5	14
115	A new look at the semantic web. <i>Communications of the ACM</i> , <b>2016</b> , 59, 35-37	2.5	24
114	Design Index for Deep Neural Networks. <i>Procedia Computer Science</i> , <b>2016</b> , 88, 131-138	1.6	7

113	Science of the World Wide Web. <i>Science</i> , <b>2016</b> , 354, 703-704	33.3	9
112	Social machines in practice <b>2016</b> ,		2
111	Brokers or Bridges? Exploring Structural Holes in a Crowdsourcing System. <i>Computer</i> , <b>2016</b> , 49, 56-64	1.6	9
110	Investor Attention on the Social Web. <i>Journal of Behavioral Finance</i> , <b>2016</b> , 17, 45-59	1.9	10
109	Semantic sensitive tensor factorization. <i>Artificial Intelligence</i> , <b>2016</b> , 230, 224-245	3.6	11
108	Social Networking on the World Wide Web <b>2016</b> , 1-14		
107	Understanding Emergency Department 72-Hour Revisits Among Medicaid Patients Using Electronic Healthcare Records. <i>Big Data</i> , <b>2015</b> , 3, 238-48	3.1	10
106	Entity linking for biomedical literature. <i>BMC Medical Informatics and Decision Making</i> , <b>2015</b> , 15 Suppl 1, S4	3.6	21
105	Why the Data Train Needs Semantic Rails. <i>AI Magazine</i> , <b>2015</b> , 36, 5-14	6.1	29
104	Tensor Factorization that Utilizes Semantics behind Objects. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , <b>2015</b> , 30, 510-525	0.7	
103	The web observatory extension <b>2014</b> ,		2
102	The Chinese Human Flesh Web: the first decade and beyond. <i>Science Bulletin</i> , <b>2014</b> , 59, 3352-3361		5
101	Artificial Intelligence. Amplify scientific discovery with artificial intelligence. <i>Science</i> , <b>2014</b> , 346, 171-2	33.3	66
100	Preserving quality of information by using semantic relationships. <i>Pervasive and Mobile Computing</i> , <b>2014</b> , 11, 188-202	3.5	9
99	A study on the use of visualizations for Open Government Data. <i>Information Polity</i> , <b>2014</b> , 19, 73-91	2.1	21
98	Data Integration for Heterogenous Datasets. <i>Big Data</i> , <b>2014</b> , 2, 205-215	3.1	32
97	Entity Linking for Biomedical Literature <b>2014</b> ,		3
96	The Web Observatory: A Middle Layer for Broad Data. <i>Big Data</i> , <b>2014</b> , 2, 129-33	3.1	18

95	The Science of Data Science. <i>Big Data</i> , <b>2014</b> , 2, 68-70	3.1	17
94	The Twitter Observatory. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 245-250	0.3	
93	Broad Data: Exploring the Emerging Web of Data. <i>Big Data</i> , <b>2013</b> , 1, 18-20	3.1	21
92	Peta Vs. Meta. <i>Big Data</i> , <b>2013</b> , 1, 82-4	3.1	2
91	Open Government Data: A Data Analytics Approach. <i>IEEE Intelligent Systems</i> , <b>2013</b> , 28, 19-23	4.2	42
90	Semantic Web and Declarative Agent Languages and Technologies: Current and Future Trends. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 197-202	0.9	1
89	Visualization tools for open government data <b>2013</b> ,		29
88	Getting the Dirt on Big Data. <i>Big Data</i> , <b>2013</b> , 1, 137-40	3.1	8
87	Web Science: Understanding the Emergence of Macro-Level Features on the World Wide Web. <i>Foundations and Trends in Web Science</i> , <b>2013</b> , 4, 103-267	0	15
86	Web science: a new frontier. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2013</b> , 371, 20120512	3	8
85	The Semantic Web and the Next Generation of Human Computation <b>2013</b> , 523-530		7
84	Preserving quality of information by using semantic relationships <b>2012</b> ,		4
83	US Government Linked Open Data: Semantic.data.gov. <i>IEEE Intelligent Systems</i> , <b>2012</b> , 27, 25-31	4.2	63
82	An Ensemble Architecture for Learning Complex Problem-Solving Techniques from Demonstration. <i>ACM Transactions on Intelligent Systems and Technology</i> , <b>2012</b> , 3, 1-38	8	8
81	Fundamental analysis powered by Semantic Web <b>2011</b> ,		4
80	TWC LOGD: A portal for linked open government data ecosystems. <i>Web Semantics</i> , <b>2011</b> , 9, 325-333	2.9	92
79	Society Online, Part 2 [Guest editors' introduction]. <i>IEEE Intelligent Systems</i> , <b>2011</b> , 26, 22-25	4.2	
78	Towards a theory of semantic communication <b>2011</b> ,		32

77	Accountability and deterrence in online life <b>2011</b> ,		17
76	TWC International Open Government Dataset Catalog <b>2011</b> ,		8
75	<b>2011</b> ,		2
74	Transdisciplinary ITexts and the Future of Web-Scale Collaboration. <i>Journal of Business and Technical Communication</i> , <b>2011</b> , 25, 322-337	1.9	3
73	Changing the equation on scientific data visualization. <i>Science</i> , <b>2011</b> , 331, 705-8	33.3	104
72	Introduction to the Semantic Web Technologies <b>2011</b> , 1-41		9
71	Matrix "Bit" loaded <b>2010</b> ,		103
70	TWC data-gov corpus <b>2010</b> ,		28
69	A Study of the Human Flesh Search Engine: Crowd-Powered Expansion of Online Knowledge. <i>Computer</i> , <b>2010</b> , 43, 45-53	1.6	54
68	Web 3.0: The Dawn of Semantic Search. <i>Computer</i> , <b>2010</b> , 43, 77-80	1.6	13
67	Scalable reduction of large datasets to interesting subsets. <i>Web Semantics</i> , <b>2010</b> , 8, 365-373	2.9	8
66	Analyzing the AIR Language: A Semantic Web (Production) Rule Language. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 58-72	0.9	11
65	Web 3.0 Emerging. <i>Computer</i> , <b>2009</b> , 42, 111-113	1.6	105
64	Oliver G. Selfridge (1926-2008). <i>IEEE Intelligent Systems</i> , <b>2009</b> , 24, 12-13	4.2	
63	Guest Editors' Introduction: Society Online. <i>IEEE Intelligent Systems</i> , <b>2009</b> , 24, 20-21	4.2	
62	Parallel Materialization of the Finite RDFS Closure for Hundreds of Millions of Triples. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 682-697	0.9	63
61	Avoiding Another AI Winter. <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-4	4.2	45
60	We've Come a Long Way, Maybe □ <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-3	4.2	2

59	A New Portrait of the Semantic Web in Action. <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-3	4.2	1
58	Information accountability. <i>Communications of the ACM</i> , <b>2008</b> , 51, 82-87	2.5	220
57	N3Logic: A logical framework for the World Wide Web. <i>Theory and Practice of Logic Programming</i> , <b>2008</b> , 8, 249-269	0.8	93
56	Web science. <i>Communications of the ACM</i> , <b>2008</b> , 51, 60-69	2.5	206
55	Why Do We Need Intelligent Systems?. <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-3	4.2	
54	Why It Matters. <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-3	4.2	
53	. <i>IEEE Intelligent Systems</i> , <b>2008</b> , 23, 2-3	4.2	2
52	A Semantic Web approach to the provenance challenge. <i>Concurrency Computation Practice and Experience</i> , <b>2008</b> , 20, 431-439	1.4	22
51	Metcalfe's law, Web 2.0, and the Semantic Web. <i>Web Semantics</i> , <b>2008</b> , 6, 14-20	2.9	100
50	Web Service Composition via Problem Decomposition Across Multiple Ontologies <b>2007</b> ,		10
49	Toward expressive syndication on the web <b>2007</b> ,		5
48	Analyzing web access control policies <b>2007</b> ,		97
47	Agents Redux. <i>IEEE Intelligent Systems</i> , <b>2007</b> , 22, 2-2	4.2	
46	Reinventing Academic Publishing, Part 2. <i>IEEE Intelligent Systems</i> , <b>2007</b> , 22, 2-3	4.2	
45	Where Are All the Intelligent Agents?. <i>IEEE Intelligent Systems</i> , <b>2007</b> , 22, 2-3	4.2	18
44	. <i>IEEE Intelligent Systems</i> , <b>2007</b> , 22, 2-4	4.2	11
43	Embracing "Web 3.0". <i>IEEE Internet Computing</i> , <b>2007</b> , 11, 90-93	2.4	94
42	Reinventing Academic Publishing-Part 1. <i>IEEE Intelligent Systems</i> , <b>2007</b> , 22, 2-3	4.2	7

41	A Semantic Web Environment for Digital Shapes Understanding. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 226-239	0.9	12
40	Computer science. Creating a science of the Web. <i>Science</i> , <b>2006</b> , 313, 769-71	33.3	173
39	SEMANTIC INTEROPERABILITY AND INFORMATION FLUIDITY. <i>International Journal of Cooperative Information Systems</i> , <b>2006</b> , 15, 1-21	0.6	6
38	A Framework for Web Science. <i>Foundations and Trends in Web Science</i> , <b>2006</b> , 1, 1-130	0	169
37	Inferring binary trust relationships in Web-based social networks. <i>ACM Transactions on Internet Technology</i> , <b>2006</b> , 6, 497-529	3.8	286
36	Semantic Web Technologies for Terrorist Network Analysis <b>2006</b> , 125-137		2
35	The State of the Magazine. <i>IEEE Intelligent Systems</i> , <b>2006</b> , 21, 2-3	4.2	1
34	Swoop: A Web Ontology Editing Browser. <i>Web Semantics</i> , <b>2006</b> , 4, 144-153	2.9	134
33	A Survey of the Web Ontology Landscape. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 682-694	0.9	31
32	Information gathering during planning for Web Service composition. <i>Web Semantics</i> , <b>2005</b> , 3, 183-205	2.9	40
31	Debugging unsatisfiable classes in OWL ontologies. <i>Web Semantics</i> , <b>2005</b> , 3, 268-293	2.9	108
30	A Tool for Working with Web Ontologies. <i>International Journal on Semantic Web and Information Systems</i> , <b>2005</b> , 1, 36-49	1.4	41
29	Semantic Web Architecture: Stack or Two Towers?. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 37-41	0.9	41
28	Semantic Web Research Trends and Directions. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 160-169	0.9	
27	Representing Web Service Policies in OWL-DL. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 461-475	0.9	21
26	HTN planning for Web Service composition using SHOP2. <i>Web Semantics</i> , <b>2004</b> , 1, 377-396	2.9	461
25	Accuracy of Metrics for Inferring Trust and Reputation in Semantic Web-Based Social Networks. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 116-131	0.9	56
24	Information Gathering During Planning for Web Service Composition. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 335-349	0.9	21

23	Communication. Science and the semantic web. <i>Science</i> , <b>2003</b> , 299, 520-1	33.3	84
22	Automating DAML-S Web Services Composition Using SHOP2. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 195-210	0.9	133
21	Trust Networks on the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 238-249	0.9	146
20	Performance Analysis of Mobile Agents for Filtering Data Streams on Wireless Networks. <i>Mobile Networks and Applications</i> , <b>2002</b> , 7, 163-174	2.9	11
19	New Tools for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 392-400	0.9	12
18	The Semantic Web. <i>Scientific American</i> , <b>2001</b> , 284, 34-43	0.5	6597
17	Publishing on the semantic web. <i>Nature</i> , <b>2001</b> , 410, 1023-4	50.4	160
16	Knowledge is Power: The Semantic Web Vision. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 18-29	0.9	8
15	Providing Computationally Effective Knowledge Representation via Massive Parallelism. <i>Machine Intelligence and Pattern Recognition</i> , <b>1994</b> , 14, 115-135		
14	Linking Symbolic and Subsymbolic Computing. <i>Connection Science</i> , <b>1993</b> , 5, 395-414	2.8	4
13	PLANNING AND REACTING ACROSS SUPERVENIENT LEVELS OF REPRESENTATION. <i>International Journal of Cooperative Information Systems</i> , <b>1992</b> , 01, 411-449	0.6	2
12	MERGING SEPARATELY GENERATED PLANS WITH RESTRICTED INTERACTIONS. <i>Computational Intelligence</i> , <b>1992</b> , 8, 648-676	2.5	25
11	Planning and the brain. <i>Behavioral and Brain Sciences</i> , <b>1991</b> , 14, 563-564	0.9	39
10	But what is the substance of connectionist representation?. <i>Behavioral and Brain Sciences</i> , <b>1990</b> , 13, 496-497		
9	Below the knowledge level architecture. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , <b>1989</b> , 1, 255-258	2	
8	The Design and Implementation of Marker-passing Systems. <i>Connection Science</i> , <b>1989</b> , 1, 17-40	2.8	7
7	A flawed analogy?. <i>Behavioral and Brain Sciences</i> , <b>1987</b> , 10, 485-486	0.9	
6	Enhancement for multiple-inheritance. <i>ACM SIGPLAN Notices</i> , <b>1986</b> , 21, 98-106	0.2	10



5	Debugging Unsatisfiable Classes in OWL Ontologies. <i>SSRN Electronic Journal</i> ,	1	9
4	Scalable Reduction of Large Datasets to Interesting Subsets. <i>SSRN Electronic Journal</i> ,	1	3
3	Information Gathering During Planning for Web Service Composition. <i>SSRN Electronic Journal</i> ,	1	2
2	Foreign language acquisition via artificial intelligence and extended reality: design and evaluation. <i>Computer Assisted Language Learning</i> ,1-29	2.9	5
1	A Tool for Working with Web Ontologies. <i>Advances in Semantic Web and Information Systems Series</i> ,124-139		