James A Hendler

List of Publications by Year
in descending order

144	14,427	109321	32842
papers	citations	35	100
		h-index	g-index

152	152	152	8571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Semantic Web. Scientific American, 2001, 284, 34-43.	1.0	8,047
2	HTN planning for Web Service composition using SHOP2. Web Semantics, 2004, 1, 377-396.	2.9	600
3	Inferring binary trust relationships in Web-based social networks. ACM Transactions on Internet Technology, 2006, 6, 497-529.	4.4	370
4	Information accountability. Communications of the ACM, 2008, 51, 82-87.	4.5	298
5	Web science. Communications of the ACM, 2008, 51, 60-69.	4.5	269
6	Trust Networks on the Semantic Web. Lecture Notes in Computer Science, 2003, , 238-249.	1.3	231
7	COMPUTER SCIENCE: Enhanced: Creating a Science of the Web. Science, 2006, 313, 769-771.	12.6	231
8	Automating DAML-S Web Services Composition Using SHOP2. Lecture Notes in Computer Science, 2003, , 195-210.	1.3	221
9	Publishing on the semantic web. Nature, 2001, 410, 1023-1024.	27.8	219
10	A Framework for Web Science. Foundations and Trends in Web Science, 2006, 1, 1-130.	0.5	214
11	Swoop: A Web Ontology Editing Browser. Web Semantics, 2006, 4, 144-153.	2.9	183
12	Web 3.0 Emerging. Computer, 2009, 42, 111-113.	1.1	167
13	Debugging unsatisfiable classes in OWL ontologies. Web Semantics, 2005, 3, 268-293.	2.9	140
14	Matrix "Bit" loaded. , 2010, , .		140
15	Changing the Equation on Scientific Data Visualization. Science, 2011, 331, 705-708.	12.6	139
16	Analyzing web access control policies. , 2007, , .		137
17	Embracing "Web 3.0". IEEE Internet Computing, 2007, 11, 90-93.	3.3	136
18	Metcalfe's law, Web 2.0, and the Semantic Web. Web Semantics, 2008, 6, 14-20.	2.9	134

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19	N3Logic: A logical framework for the World Wide Web. Theory and Practice of Logic Programming, 2008, 8, 249-269.	1.5	127
20	COMMUNICATION: Enhanced: Science and the Semantic Web. Science, 2003, 299, 520-521.	12.6	113
21	TWC LOGD: A portal for linked open government data ecosystems. Web Semantics, 2011, 9, 325-333.	2.9	110
22	Towards a theory of semantic communication. , 2011, , .		108
23	Amplify scientific discovery with artificial intelligence. Science, 2014, 346, 171-172.	12.6	95
24	Accuracy of Metrics for Inferring Trust and Reputation in Semantic Web-Based Social Networks. Lecture Notes in Computer Science, 2004, , 116-131.	1.3	93
25	Parallel Materialization of the Finite RDFS Closure for Hundreds of Millions of Triples. Lecture Notes in Computer Science, 2009, , 682-697.	1.3	86
26	US Government Linked Open Data: Semantic.data.gov. IEEE Intelligent Systems, 2012, 27, 25-31.	4.0	82
27	A Study of the Human Flesh Search Engine: Crowd-Powered Expansion of Online Knowledge. Computer, 2010, 43, 45-53.	1.1	78
28	Avoiding Another AI Winter. IEEE Intelligent Systems, 2008, 23, 2-4.	4.0	77
29	A Tool for Working with Web Ontologies. International Journal on Semantic Web and Information Systems, 2005, 1, 36-49.	5.1	63
30	Information gathering during planning for Web Service composition. Web Semantics, 2005, 3, 183-205.	2.9	60
31	Why the Data Train Needs Semantic Rails. AI Magazine, 2015, 36, 5-14.	1.6	59
32	Open Government Data: A Data Analytics Approach. IEEE Intelligent Systems, 2013, 28, 19-23.	4.0	49
33	Data Integration for Heterogenous Datasets. Big Data, 2014, 2, 205-215.	3.4	47
34	A Survey of the Web Ontology Landscape. Lecture Notes in Computer Science, 2006, , 682-694.	1.3	43
35	Planning and the brain. Behavioral and Brain Sciences, 1991, 14, 563-564.	0.7	42
36	Visualization tools for open government data. , 2013, , .		41

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37	MERGING SEPARATELY GENERATED PLANS WITH RESTRICTED INTERACTIONS. Computational Intelligence, 1992, 8, 648-676.	3.2	40
38	A Semantic Web approach to the provenance challenge. Concurrency Computation Practice and Experience, 2008, 20, 431-439.	2.2	39
39	Web 3.0: The Dawn of Semantic Search. Computer, 2010, 43, 77-80.	1.1	37
40	TWC data-gov corpus. , 2010, , .		35
41	Entity linking for biomedical literature. BMC Medical Informatics and Decision Making, 2015, 15, S4.	3.0	34
42	Information Gathering During Planning for Web Service Composition. Lecture Notes in Computer Science, 2004, , 335-349.	1.3	32
43	Preserving quality of information by using semantic relationships. Pervasive and Mobile Computing, 2014, 11, 188-202.	3.3	30
44	A new look at the semantic web. Communications of the ACM, 2016, 59, 35-37.	4.5	30
45	Foreign language acquisition via artificial intelligence and extended reality: design and evaluation. Computer Assisted Language Learning, 2022, 35, 2332-2360.	7.1	30
46	Where Are All the Intelligent Agents?. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	27
47	A study on the use of visualizations for Open Government Data. Information Polity, 2014, 19, 73-91.	0.8	27
48	Accountability and deterrence in online life. , 2011, , .		26
49	Broad Data: Exploring the Emerging Web of Data. Big Data, 2013, 1, 18-20.	3.4	26
50	The Science of Data Science. Big Data, 2014, 2, 68-70.	3.4	26
51	The Dark Side of the Semantic Web. IEEE Intelligent Systems, 2007, 22, 2-4.	4.0	24
52	The Web Observatory: A Middle Layer for Broad Data. Big Data, 2014, 2, 129-133.	3.4	24
53	Web Science: Understanding the Emergence of Macro-Level Features on the World Wide Web. Foundations and Trends in Web Science, 2013, 4, 103-267.	0.5	22
54	Investor Attention on the Social Web. Journal of Behavioral Finance, 2016, 17, 45-59.	1.7	20

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55	New Tools for the Semantic Web. Lecture Notes in Computer Science, 2002, , 392-400.	1.3	20
56	Editorial: On The Need for Hybrid Systems. Connection Science, 1989, 1, 227-229.	3.0	19
57	Performance Analysis of Mobile Agents for Filtering Data Streams on Wireless Networks. Mobile Networks and Applications, 2002, 7, 163-174.	3.3	18
58	Semantic Social Network Analysis by Cross-Domain Tensor Factorization. IEEE Transactions on Computational Social Systems, 2017, 4, 207-217.	4.4	18
59	Analyzing the AIR Language: A Semantic Web (Production) Rule Language. Lecture Notes in Computer Science, 2010, , 58-72.	1.3	17
60	Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems. Big Data, 2017, 5, 19-31.	3.4	15
61	A Semantic Web Environment for Digital Shapes Understanding. Lecture Notes in Computer Science, 2007, , 226-239.	1.3	15
62	Enhancement for multiple-inheritance. ACM SIGPLAN Notices, 1986, 21, 98-106.	0.2	14
63	Deep learning for noise-tolerant RDFS reasoning1. Semantic Web, 2019, 10, 823-862.	1.9	14
64	Knowledge is Power: The Semantic Web Vision. Lecture Notes in Computer Science, 2001, , 18-29.	1.3	14
65	Web Service Composition via Problem Decomposition Across Multiple Ontologies. , 2007, , .		13
66	Web science: a new frontier. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120512.	3.4	13
67	Semantic sensitive tensor factorization. Artificial Intelligence, 2016, 230, 224-245.	5.8	13
68	Introduction to the Semantic Web Technologies. , 2011, , 1-41.		13
69	Brokers or Bridges? Exploring Structural Holes in a Crowdsourcing System. Computer, 2016, 49, 56-64.	1.1	12
70	Efficient Classification of Supercomputer Failures Using Neuromorphic Computing. , 2018, , .		12
71	Knowledge Integration for Disease Characterization: A Breast Cancer Example. Lecture Notes in Computer Science, 2018, , 223-238.	1.3	12
72	Reinventing Academic Publishing-Part 1. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	11

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73	TWC International Open Government Dataset Catalog. , 2011, , .		11
74	Entity Linking for Biomedical Literature. , 2014, , .		11
75	Understanding Emergency Department 72-Hour Revisits Among Medicaid Patients Using Electronic Healthcare Records. Big Data, 2015, 3, 238-248.	3.4	11
76	Science of the World Wide Web. Science, 2016, 354, 703-704.	12.6	11
77	The Design and Implementation of Marker-passing Systems. Connection Science, 1989, 1, 17-40.	3.0	10
78	An Ensemble Architecture for Learning Complex Problem-Solving Techniques from Demonstration. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-38.	4.5	10
79	Preserving quality of information by using semantic relationships. , 2012, , .		10
80	Design Index for Deep Neural Networks. Procedia Computer Science, 2016, 88, 131-138.	2.0	10
81	A New Portrait of the Semantic Web in Action. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	9
82	Getting the Dirt on Big Data. Big Data, 2013, 1, 137-140.	3.4	9
83	Debugging Unsatisfiable Classes in OWL Ontologies. SSRN Electronic Journal, 0, , .	0.4	9
84	SEMANTIC INTEROPERABILITY AND INFORMATION FLUIDITY. International Journal of Cooperative Information Systems, 2006, 15, 1-21.	0.8	8
85	Toward expressive syndication on the web. , 2007, , .		8
86	Scalable reduction of large datasets to interesting subsets. Web Semantics, 2010, 8, 365-373.	2.9	8
87	The Chinese â€œHuman Fleshâ€•Web: the first decade and beyond. Science Bulletin, 2014, 59, 3352-3361.	1.7	7
88	Social Networking on the World Wide Web. , 2014, , 1879-1892.		7
89	Linking Symbolic and Subsymbolic Computing. Connection Science, 1993, 5, 395-414.	3.0	6
90	Reinventing Academic Publishing, Part 3. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	6

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91	Social machines in practice. , 2016, , .		6
92	Analyzing the Flow of Trust in the Virtual World With Semantic Web Technologies. IEEE Transactions on Computational Social Systems, 2018, 5, 807-815.	4.4	6
93	PLANNING AND REACTING ACROSS SUPERVENIENT LEVELS OF REPRESENTATION. International Journal of Cooperative Information Systems, 1992, 01, 411-449.	0.8	5
94	Fundamental analysis powered by Semantic Web. , 2011, , .		5
95	Transdisciplinary ITexts and the Future of Web-Scale Collaboration. Journal of Business and Technical Communication, 2011, 25, 322-337.	2.0	5
96	Towards a Cyberphysical Web Science. , 2019, , .		5
97	A Response to NúÃ±ez et al.'s (2019) â€œWhat Happened to Cognitive Science?â€• Topics in Cognitive Science, 2019, 11, 914-917.	1.9	5
98	Knowledge graphs: Introduction, history, and perspectives. AI Magazine, 2022, 43, 17-29.	1.6	5
99	Semantic Web Technologies for Terrorist Network Analysis. , 2006, , 125-137.		4
100	Scalable Reduction of Large Datasets to Interesting Subsets. SSRN Electronic Journal, 0, , .	0.4	4
101	Peta Vs. Meta. Big Data, 2013, 1, 82-84.	3.4	3
102	The web observatory extension. , 2014, , .		3
103	Information Gathering During Planning for Web Service Composition. SSRN Electronic Journal, 0, , .	0.4	3
104	Providing Computationally Effective Knowledge Representation via Massive Parallelism. Machine Intelligence and Pattern Recognition, 1994, 14, 115-135.	0.2	3
105	Experimental AI systems. Journal of Experimental and Theoretical Artificial Intelligence, 1995, 7, 1-5.	2.8	2
106	Reinventing Academic Publishing, Part 2. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	2
107	AI's 10 to Watch. IEEE Intelligent Systems, 2008, 23, 9-19.	4.0	2
108	We've Come a Long Way, Maybe Â…. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	2

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109	Evolving a rapid prototyping environment for visually and analytically exploring large-scale Linked Open Data. , 2011, , .		2
110	Semantic Web and Declarative Agent Languages and Technologies: Current and Future Trends. Lecture Notes in Computer Science, 2013, , 197-202.	1.3	2
111	Semantics for Big Data. AI Magazine, 2015, 36, 3-4.	1.6	2
112	Computers Play Chess, Computers Play Goâ€¦Humans Play Dungeons & Dragons. IEEE Intelligent Systems, 2017, 32, 31-34.	4.0	2
113	Editorial: The Semantic Web and Policy. SSRN Electronic Journal, 0, , .	0.4	2
114	The State of the Magazine. IEEE Intelligent Systems, 2006, 21, 2-3.	4.0	1
115	AI Theory and Practice: A Discussion on Hard Challenges and Opportunities Ahead. AI Magazine, 2010, 31, 103.	1.6	1
116	The Semantic Web 10thyear update. , 2011, , .		1
117	Reports on the 2013 AAAI Fall Symposium Series. AI Magazine, 2014, 35, 69-74.	1.6	1
118	In-context query reformulation for failing SPARQL queries. , 2017, , .		1
119	Web Science: Now More Than Ever. Computer, 2018, 51, 12-17.	1.1	1
120	A Journal for Human and Machine. Data Intelligence, 2019, 1, 1-5.	1.5	1
121	Social Networking on the World Wide Web. , 2016, , 1-14.		1
122	Reclaim the lost promise of the semantic web. Communications of the ACM, 2016, 59, 17-17.	4.5	1
123	A flawed analogy?. Behavioral and Brain Sciences, 1987, 10, 485-486.	0.7	0
124	Below the knowledge level architecture. Journal of Experimental and Theoretical Artificial Intelligence, 1989, 1, 255-258.	2.8	0
125	But what is the substance of connectionist representation?. Behavioral and Brain Sciences, 1990, 13, 496-497.	0.7	0
126	HTN Planning for Web Service Composition Using SHOP2. SSRN Electronic Journal, 2004, , .	0.4	0

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127	Agents Redux. IEEE Intelligent Systems, 2007, 22, 2-2.	4.0	0
128	Department of Redundancy Department?. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	0
129	Why Do We Need Intelligent Systems?. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	0
130	Why It Matters. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	0
131	Oliver G. Selfridge (1926-2008). IEEE Intelligent Systems, 2009, 24, 12-13.	4.0	0
132	Guest Editors' Introduction: Society Online. IEEE Intelligent Systems, 2009, 24, 20-21.	4.0	0
133	Society Online, Part 2 [Guest editors' introduction]. IEEE Intelligent Systems, 2011, 26, 22-25.	4.0	0
134	Linked Ethnographic Data. , 2015, , .		0
135	Cognitive Computing. IEEE Intelligent Systems, 2017, 32, 3-4.	4.0	0
136	To Serve AI (It's a Cookbook). AI Magazine, 2018, 39, 60-64.	1.6	0
137	Intelligent Systems, Introduction to. , 2012, , 1642-1643.		0
138	The Twitter Observatory. Communications in Computer and Information Science, 2014, , 245-250.	0.5	0
139	Tensor Factorization that Utilizes Semantics behind Objects. Transactions of the Japanese Society for Artificial Intelligence, 2015, 30, 510-525.	0.1	0
140	The Importance of Authoritative URI Design Schemes for Open Government Data. , 2018, , 2181-2199.		0
141	Social Networking on the World Wide Web. , 2018, , 2717-2730.		0
142	Reflections on Successful Research in Artificial Intelligence: An Introduction. AI Magazine, 2020, 40, 3-5.	1.6	0
143	Training Deep Neural Networks with Constrained Learning Parameters. , 2020, , .		0
144	A Tool for Working with Web Ontologies. Advances in Semantic Web and Information Systems Series, 0, , 124-139.	0.0	0