

Ian R Horrocks

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.

183
papers

7,808
citations

41
h-index

84
g-index

191
ext. papers

8,956
ext. citations

1.5
avg, IF

6.16
L-index

#	Paper	IF	Citations
183	From SHIQ and RDF to OWL: the making of a Web Ontology Language. <i>Web Semantics</i> , 2003 , 1, 7-26	2.9	777
182	OWL 2: The next step for OWL. <i>Web Semantics</i> , 2008 , 6, 309-322	2.9	459
181	. <i>IEEE Intelligent Systems</i> , 2001 , 16, 38-45	4.2	318
180	FaCT++ Description Logic Reasoner: System Description. <i>Lecture Notes in Computer Science</i> , 2006 , 292-297	3.9	317
179	A software framework for matchmaking based on semantic web technology 2003 ,		307
178	The Semantic Web: the roles of XML and RDF. <i>IEEE Internet Computing</i> , 2000 , 4, 63-73	2.4	280
177	Description logic programs 2003 ,		266
176	HermiT: An OWL 2 Reasoner. <i>Journal of Automated Reasoning</i> , 2014 , 53, 245-269	1	255
175	OWL rules: A proposal and prototype implementation. <i>Web Semantics</i> , 2005 , 3, 23-40	2.9	189
174	The GRAIL concept modelling language for medical terminology. <i>Artificial Intelligence in Medicine</i> , 1997 , 9, 139-71	7.4	176
173	Hypertableau Reasoning for Description Logics. <i>Journal of Artificial Intelligence Research</i> , 36 , 165-228	4	162
172	Ontologies and the semantic web. <i>Communications of the ACM</i> , 2008 , 51, 58-67	2.5	160
171	Practical Reasoning for Expressive Description Logics. <i>Lecture Notes in Computer Science</i> , 1999 , 161-180	0.9	139
170	Reducing OWL entailment to description logic satisfiability. <i>Web Semantics</i> , 2004 , 1, 345-357	2.9	137
169	A description logic with transitive and inverse roles and role hierarchies. <i>Journal of Logic and Computation</i> , 1999 , 9, 385-410	0.4	132
168	A proposal for an owl rules language 2004 ,		124
167	Description Logic Programs: Combining Logic Programs with Description Logic. <i>SSRN Electronic Journal</i> , 2003 ,	1	120

166	A Tableau Decision Procedure for (mathcal{SHOIQ}). <i>Journal of Automated Reasoning</i> , 2007 , 39, 249-276	1	111
165	A Software Framework for Matchmaking Based on Semantic Web Technology. <i>International Journal of Electronic Commerce</i> , 2004 , 8, 39-60	5.4	109
164	Bridging the gap between OWL and relational databases. <i>Web Semantics</i> , 2009 , 7, 74-89	2.9	91
163	Optimizing description logic subsumption. <i>Journal of Logic and Computation</i> , 1999 , 9, 267-293	0.4	90
162	OilEd: A Reason-able Ontology Editor for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2001 , 396-408	0.9	88
161	Chapter 3 Description Logics. <i>Foundations of Artificial Intelligence</i> , 2008 , 135-179		87
160	Description Logics as Ontology Languages for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2005 , 228-248	0.9	86
159	OWL-QLB language for deductive query answering on the Semantic Web. <i>Web Semantics</i> , 2004 , 2, 19-29	2.9	83
158	Just the right amount 2007 ,		80
157	The FaCT System. <i>Lecture Notes in Computer Science</i> , 1998 , 307-312	0.9	78
156	Reducing OWL Entailment to Description Logic Satisfiability. <i>Lecture Notes in Computer Science</i> , 2003 , 17-29	0.9	76
155	Reasoning with Individuals for the Description Logic (mathcal{SHIQ}). <i>Lecture Notes in Computer Science</i> , 2000 , 482-496	0.9	68
154	RDFox: A Highly-Scalable RDF Store. <i>Lecture Notes in Computer Science</i> , 2015 , 3-20	0.9	65
153	Decidability of . <i>Artificial Intelligence</i> , 2004 , 160, 79-104	3.6	64
152	Ontology-based knowledge management. <i>Computer</i> , 2002 , 35, 56-59	1.6	64
151	Tractable query answering and rewriting under description logic constraints. <i>Journal of Applied Logic</i> , 2010 , 8, 186-209		62
150	Bridging the gap between OWL and relational databases 2007 ,		53
149	Can OWL and Logic Programming Live Together Happily Ever After?. <i>Lecture Notes in Computer Science</i> , 2006 , 501-514	0.9	49

148	BootOX: Practical Mapping of RDBs to OWL 2. <i>Lecture Notes in Computer Science</i> , 2015 , 113-132	0.9	45
147	Ontology Integration Using Mappings: Towards Getting the Right Logical Consequences. <i>Lecture Notes in Computer Science</i> , 2009 , 173-187	0.9	45
146	OptiqueVQS: A visual query system over ontologies for industry. <i>Semantic Web</i> , 2018 , 9, 627-660	2.4	45
145	Querying the Semantic Web: A Formal Approach. <i>Lecture Notes in Computer Science</i> , 2002 , 177-191	0.9	45
144	A novel approach to ontology classification. <i>Web Semantics</i> , 2012 , 14, 84-101	2.9	41
143	Semantic Web Architecture: Stack or Two Towers?. <i>Lecture Notes in Computer Science</i> , 2005 , 37-41	0.9	41
142	Using Semantic Technology to Tame the Data Variety Challenge. <i>IEEE Internet Computing</i> , 2016 , 20, 62-66.4		41
141	Optimized Reasoning in Description Logics Using Hypertableaux. <i>Lecture Notes in Computer Science</i> , 2007 , 67-83	0.9	39
140	Optimizing Terminological Reasoning for Expressive Description Logics. <i>Journal of Automated Reasoning</i> , 2007 , 39, 277-316	1	38
139	Efficient Query Answering for OWL 2. <i>Lecture Notes in Computer Science</i> , 2009 , 489-504	0.9	37
138	Building a bioinformatics ontology using OIL. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2002 , 6, 135-41		35
137	Ontology Based Access to Exploration Data at Statoil. <i>Lecture Notes in Computer Science</i> , 2015 , 93-112	0.9	35
136	Capturing Industrial Information Models with Ontologies and Constraints. <i>Lecture Notes in Computer Science</i> , 2016 , 325-343	0.9	34
135	A comparison of two modelling paradigms in the Semantic Web. <i>Web Semantics</i> , 2007 , 5, 240-250	2.9	34
134	Enabling knowledge representation on the Web by extending RDF schema 2001 ,		34
133	Experiencing OptiqueVQS: a multi-paradigm and ontology-based visual query system for end users. <i>Universal Access in the Information Society</i> , 2016 , 15, 129-152	2.5	33
132	Representing ontologies using description logics, description graphs, and rules. <i>Artificial Intelligence</i> , 2009 , 173, 1275-1309	3.6	32
131	RDFS(FA): Connecting RDF(S) and OWL DL. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 192-206	4.2	32

130	SPARQL Query Answering over OWL Ontologies. <i>Lecture Notes in Computer Science</i> , 2011 , 382-396	0.9	30
129	Supporting concurrent ontology development: Framework, algorithms and tool. <i>Data and Knowledge Engineering</i> , 2011 , 70, 146-164	1.5	29
128	Ontology-Based Integration of Streaming and Static Relational Data with Optique 2016 ,		28
127	Three theses of representation in the semantic web 2003 ,		28
126	OptiqueVQS 2013 ,		27
125	Position paper 2006 ,		26
124	Combinations of Modal Logics. <i>Artificial Intelligence Review</i> , 2002 , 17, 1-20	9.7	26
123	Publishing the Norwegian Petroleum Directorate's FactPages as Semantic Web Data. <i>Lecture Notes in Computer Science</i> , 2013 , 162-177	0.9	26
122	Ontology-based end-user visual query formulation: Why, what, who, how, and which?. <i>Universal Access in the Information Society</i> , 2017 , 16, 435-467	2.5	25
121	Logic-based assessment of the compatibility of UMLS ontology sources. <i>Journal of Biomedical Semantics</i> , 2011 , 2 Suppl 1, S2	2.2	25
120	Delta-reasoner 2012 ,		25
119	Using Vampire to Reason with OWL. <i>Lecture Notes in Computer Science</i> , 2004 , 471-485	0.9	25
118	RODI: Benchmarking relational-to-ontology mapping generation quality. <i>Semantic Web</i> , 2017 , 9, 25-52	2.4	24
117	4 Computational modal logic. <i>Studies in Logic and Practical Reasoning</i> , 2007 , 3, 181-245		24
116	Optique: Towards OBDA Systems for Industry. <i>Lecture Notes in Computer Science</i> , 2013 , 125-140	0.9	24
115	DAML+OIL: A Reason-able Web Ontology Language. <i>Lecture Notes in Computer Science</i> , 2002 , 2-13	0.9	24
114	How to Decide Query Containment under Constraints Using a Description Logic 2000 , 326-343		23
113	Description Logics 2009 , 21-43		22

112	The OWL Instance Store: System Description. <i>Lecture Notes in Computer Science</i> , 2005 , 177-181	0.9	22
111	Framework for an Automated Comparison of Description Logic Reasoners. <i>Lecture Notes in Computer Science</i> , 2006 , 654-667	0.9	22
110	Description Logics. <i>IEEE Intelligent Systems</i> , 2014 , 29, 12-19	4.2	21
109	OWL: A Description Logic Based Ontology Language. <i>Lecture Notes in Computer Science</i> , 2005 , 5-8	0.9	21
108	RDFS(FA) and RDF MT: Two Semantics for RDFS. <i>Lecture Notes in Computer Science</i> , 2003 , 30-46	0.9	21
107	f-SWRL: A Fuzzy Extension of SWRL. <i>Lecture Notes in Computer Science</i> , 2006 , 28-46	0.9	20
106	Enabling knowledge representation on the Web by extending RDF Schema. <i>Computer Networks</i> , 2002 , 39, 609-634	5.4	20
105	Order matters! Harnessing a world of orderings for reasoning over massive data. <i>Semantic Web</i> , 2013 , 4, 219-231	2.4	19
104	OWL FA 2006 ,		19
103	MORe: Modular Combination of OWL Reasoners for Ontology Classification. <i>Lecture Notes in Computer Science</i> , 2012 , 1-16	0.9	19
102	PAGOdA: Pay-As-You-Go Ontology Query Answering Using a Datalog Reasoner. <i>Journal of Artificial Intelligence Research</i> , 54 , 309-367	4	18
101	KR and Reasoning on the Semantic Web: OWL 2011 , 365-398		18
100	OILing the way to machine understandable bioinformatics resources. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2002 , 6, 129-34		17
99	Scalable End-User Access to Big Data 2013 , 205-244		17
98	A Little Semantic Web Goes a Long Way in Biology. <i>Lecture Notes in Computer Science</i> , 2005 , 786-800	0.9	17
97	Reasoning Support for Expressive Ontology Languages Using a Theorem Prover. <i>Lecture Notes in Computer Science</i> , 2006 , 201-218	0.9	17
96	FaCT and DLP. <i>Lecture Notes in Computer Science</i> , 1998 , 27-30	0.9	17
95	Optimising Ontology Classification. <i>Lecture Notes in Computer Science</i> , 2010 , 225-240	0.9	16

94	OWL-Eu: Adding customised datatypes into OWL. <i>Web Semantics</i> , 2006 , 4, 29-39	2.9	15
93	Completeness Guarantees for Incomplete Ontology Reasoners: Theory and Practice. <i>Journal of Artificial Intelligence Research</i> , 43 , 419-476	4	15
92	Module Extraction in Expressive Ontology Languages via Datalog Reasoning. <i>Journal of Artificial Intelligence Research</i> , 55 , 499-564	4	15
91	Extracting Modules from Ontologies: A Logic-Based Approach. <i>Lecture Notes in Computer Science</i> , 2009 , 159-186	0.9	15
90	Ontology-Based Visual Query Formulation: An Industry Experience. <i>Lecture Notes in Computer Science</i> , 2015 , 842-854	0.9	14
89	Towards Analytics Aware Ontology Based Access to Static and Streaming Data. <i>Lecture Notes in Computer Science</i> , 2016 , 344-362	0.9	14
88	What Are Ontologies Good For? 2013 , 175-188		13
87	OBO and OWL: Leveraging Semantic Web Technologies for the Life Sciences. <i>Lecture Notes in Computer Science</i> , 2007 , 169-182	0.9	13
86	Optimized Description Logic Reasoning via Core Blocking. <i>Lecture Notes in Computer Science</i> , 2010 , 457-471	0.9	13
85	Reasoning with Expressive Description Logics: Theory and Practice. <i>Lecture Notes in Computer Science</i> , 2002 , 1-15	0.9	13
84	Maintenance of datalog materialisations revisited. <i>Artificial Intelligence</i> , 2019 , 269, 76-136	3.6	12
83	Enabling semantic access to static and streaming distributed data with optique 2016 ,		12
82	OWL-Eu: Adding Customised Datatypes into OWL. <i>Lecture Notes in Computer Science</i> , 2005 , 153-166	0.9	12
81	Event-Enhanced Learning for KG Completion. <i>Lecture Notes in Computer Science</i> , 2018 , 541-559	0.9	12
80	OWL Datatypes: Design and Implementation. <i>Lecture Notes in Computer Science</i> , 2008 , 307-322	0.9	12
79	A Preliminary Approach on Ontology-Based Visual Query Formulation for Big Data. <i>Communications in Computer and Information Science</i> , 2013 , 201-212	0.3	11
78	Towards Exploiting Query History for Adaptive Ontology-Based Visual Query Formulation. <i>Communications in Computer and Information Science</i> , 2014 , 107-119	0.3	11
77	Towards the Semantic Enrichment of Free-Text Annotation of Image Quality Assessment for UK Biobank Cardiac Cine MRI Scans. <i>Lecture Notes in Computer Science</i> , 2016 , 238-248	0.9	11

76	Consequence-based and fixed-parameter tractable reasoning in description logics. <i>Artificial Intelligence</i> , 2014 , 209, 29-77	3.6	10
75	Semantic Rules for Machine Diagnostics 2017 ,		10
74	A Semantic Infosphere. <i>Lecture Notes in Computer Science</i> , 2003 , 882-896	0.9	10
73	Optique: OBDA Solution for Big Data. <i>Lecture Notes in Computer Science</i> , 2013 , 293-295	0.9	10
72	OWL2Vec*: embedding of OWL ontologies. <i>Machine Learning</i> , 2021 , 110, 1813	4	10
71	Description Logics in Ontology Applications. <i>Lecture Notes in Computer Science</i> , 2005 , 2-13	0.9	10
70	OWL: A Description Logic Based Ontology Language. <i>Lecture Notes in Computer Science</i> , 2005 , 1-4	0.9	10
69	SemDia 2017 ,		9
68	Hybrid Logics and Ontology Languages. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 174, 3-14	0.7	9
67	Semantic web 2007 ,		9
66	Reducing OWL Entailment to Description Logic Satisfiability. <i>SSRN Electronic Journal</i> , 2004 ,	1	9
65	Optimising propositional modal satisfiability for description logic subsumption. <i>Lecture Notes in Computer Science</i> , 1998 , 234-246	0.9	9
64	Distributed RDF Query Answering with Dynamic Data Exchange. <i>Lecture Notes in Computer Science</i> , 2016 , 480-497	0.9	9
63	Web Ontology Reasoning with Datatype Groups. <i>Lecture Notes in Computer Science</i> , 2003 , 47-63	0.9	9
62	Making the most of your triple store 2013 ,		8
61	From SHIQ and RDF to OWL: The Making of a Web Ontology Language. <i>SSRN Electronic Journal</i> ,	1	8
60	Repairing Ontologies for Incomplete Reasoners. <i>Lecture Notes in Computer Science</i> , 2011 , 681-696	0.9	8
59	Semantic Technologies for Data Analysis in Health Care. <i>Lecture Notes in Computer Science</i> , 2016 , 400-417	0.9	8

58	Benchmark Analysis with FaCT. <i>Lecture Notes in Computer Science</i> , 2000 , 62-66	0.9	8
57	DLP and FaCT. <i>Lecture Notes in Computer Science</i> , 1999 , 19-23	0.9	8
56	A rule-based ontological framework for the classification of molecules. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 17	2.2	7
55	Tractable Extensions of the Description Logic ($\{\mathcal{EL}\}$) with Numerical Datatypes. <i>Journal of Automated Reasoning</i> , 2011 , 47, 427-450	1	7
54	Applications of Description Logics: State of the Art and Research Challenges. <i>Lecture Notes in Computer Science</i> , 2005 , 78-90	0.9	7
53	Satisfaction and Implication of Integrity Constraints in Ontology-based Data Access 2019 ,		7
52	(\mathcal{EL})-ifying Ontologies. <i>Lecture Notes in Computer Science</i> , 2014 , 464-479	0.9	7
51	Exploiting Partial Information in Taxonomy Construction. <i>Lecture Notes in Computer Science</i> , 2009 , 569-584	0.9	7
50	Tool Support for Ontology Engineering 2011 , 103-112		7
49	The Energy Management Adviser at EDF. <i>Lecture Notes in Computer Science</i> , 2013 , 49-64	0.9	7
48	Extending Datatype Support in Web Ontology Reasoning. <i>Lecture Notes in Computer Science</i> , 2002 , 1067-1081	0.9	7
47	Correcting Knowledge Base Assertions 2020 ,		6
46	Learning Semantic Annotations for Tabular Data 2019 ,		6
45	Diagnostics of Trains with Semantic Diagnostics Rules. <i>Lecture Notes in Computer Science</i> , 2018 , 54-71	0.9	6
44	Evolution of Semantic Systems 2013 ,		5
43	Rewriting Conjunctive Queries over Description Logic Knowledge Bases. <i>Lecture Notes in Computer Science</i> , 2008 , 199-214	0.9	5
42	Modelling Structured Domains Using Description Graphs and Logic Programming. <i>Lecture Notes in Computer Science</i> , 2012 , 330-344	0.9	5
41	2018 ,		5

40	Augmenting Ontology Alignment by Semantic Embedding and Distant Supervision. <i>Lecture Notes in Computer Science</i> , 2021 , 392-408	0.9	5
39	Owl Rules: A Proposal and Prototype Implementation. <i>SSRN Electronic Journal</i> ,	1	4
38	Foundations of Declarative Data Analysis Using Limit Datalog Programs 2017 ,		4
37	The Bag Semantics of Ontology-Based Data Access 2017 ,		4
36	Pushing the Boundaries of Tractable Ontology Reasoning. <i>Lecture Notes in Computer Science</i> , 2014 , 148-163	0.9	4
35	Dynamic Data Exchange in Distributed RDF Stores. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018 , 30, 2312-2325	4.2	4
34	Datalog Reasoning over Compressed RDF Knowledge Bases 2019 ,		3
33	Reasoning Web. Semantic Technologies for Intelligent Data Access. <i>Lecture Notes in Computer Science</i> , 2013 ,	0.9	3
32	Why not simply Google? 2014 ,		3
31	Evaluating Optimized Decision Procedures for Propositional Modal K (m) Satisfiability. <i>Journal of Automated Reasoning</i> , 2002 , 28, 173-204	1	3
30	OWL2: The Next Step for OWL. <i>SSRN Electronic Journal</i> ,	1	3
29	DAML+OIL: A Reason-Able Web Ontology Language. <i>Lecture Notes in Computer Science</i> , 2002 , 174-174	0.9	3
28	Stratified Negation in Limit Datalog Programs 2018 ,		3
27	Complete Query Answering over Horn Ontologies Using a Triple Store. <i>Lecture Notes in Computer Science</i> , 2013 , 720-736	0.9	3
26	An Efficient Index for RDF Query Containment 2019 ,		2
25	Semantics ? scalability ? ???. <i>Journal of Zhejiang University: Science C</i> , 2012 , 13, 241-244		2
24	A Comparison of Two Modelling Paradigms in the Semantic Web. <i>SSRN Electronic Journal</i> ,	1	2
23	Modular Materialisation of Datalog Programs. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2003 , 2859-2866	5	2

22	Datalog Materialisation in Distributed RDF Stores with Dynamic Data Exchange. <i>Lecture Notes in Computer Science</i> , 2019 , 21-37	0.9	2
21	Individual Reuse in Description Logic Reasoning. <i>Lecture Notes in Computer Science</i> , 2008 , 242-258	0.9	2
20	Tractable Extensions of the Description Logic (cal EL) with Numerical Datatypes. <i>Lecture Notes in Computer Science</i> , 2010 , 61-75	0.9	2
19	Completeness Guarantees for Incomplete Reasoners. <i>Lecture Notes in Computer Science</i> , 2010 , 747-763	0.9	2
18	A Novel Approach to Ontology Classification. <i>SSRN Electronic Journal</i> ,	1	2
17	Semantic Diagnostics of Smart Factories. <i>Lecture Notes in Computer Science</i> , 2018 , 277-294	0.9	2
16	OIL and DAML + OIL: Ontology Languages for the Semantic Web	11-31	1
15	Bridging the Gap Between OWL and Relational Databases. <i>SSRN Electronic Journal</i> ,	1	1
14	OWL-Eu: Adding Customised Datatypes Into OWL. <i>SSRN Electronic Journal</i> ,	1	1
13	Semantic Web. <i>Human-computer Interaction Series</i> , 2008 , 315-330	0.6	1
12	15 Years of Consequence-Based Reasoning. <i>Lecture Notes in Computer Science</i> , 2019 , 573-587	0.9	1
11	Concrete Results on Abstract Rules. <i>Lecture Notes in Computer Science</i> , 2013 , 414-426	0.9	1
10	Streaming Partitioning of RDF Graphs for Datalog Reasoning. <i>Lecture Notes in Computer Science</i> , 2021 , 3-22	0.9	1
9	Pay-as-you-go consequence-based reasoning for the description logic SROIQ. <i>Artificial Intelligence</i> , 2021 , 298, 103518	3.6	1
8	Abox Satisfiability Reduced to Terminological Reasoning in Expressive Description Logics. <i>Lecture Notes in Computer Science</i> , 2002 , 435-449	0.9	1
7	Feasibility of Optimised Disjunctive Reasoning for Approximate Matching. <i>Lecture Notes in Computer Science</i> , 1999 , 328-339	0.9	1
6	The Complexity and Expressive Power of Limit Datalog. <i>Journal of the ACM</i> , 2022 , 69, 1-83	2	
5	An assertion and alignment correction framework for large scale knowledge bases. <i>Semantic Web</i> , 2021 , 1-25	2.4	

4	Use of Semantic Technologies to Inform Progress Toward Zero-Carbon Economy. <i>Lecture Notes in Computer Science</i> , 2021 , 665-681	0.9
3	Computing CQ Lower-Bounds over OWL 2 Through Approximation to RSA. <i>Lecture Notes in Computer Science</i> , 2021 , 200-216	0.9
2	Modular materialisation of Datalog programs. <i>Artificial Intelligence</i> , 2022 , 308, 103726	3.6
1	The Dow Jones Knowledge Graph. <i>Lecture Notes in Computer Science</i> , 2022 , 427-443	0.9