

# Zhi-yuan Liu

## 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.

111  
papers

3,027  
citations

26  
h-index

53  
g-index

122  
ext. papers

5,007  
ext. citations

4.7  
avg, IF

5.86  
L-index

#	Paper	IF	Citations
111	A deep-learning system bridging molecule structure and biomedical text with comprehension comparable to human professionals.. <i>Nature Communications</i> , <b>2022</b> , 13, 862	17.4	2
110	Event Detection with Dynamic Word-Trigger-Argument Graph Neural Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2021</b> , 1-1	4.2	
109	Capturing Global Informativeness in Open Domain Keyphrase Extraction. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 275-287	0.9	0
108	Knowledgeable machine learning for natural language processing. <i>Communications of the ACM</i> , <b>2021</b> , 64, 50-51	2.5	
107	KEPLER: A Unified Model for Knowledge Embedding and Pre-trained Language Representation. <i>Transactions of the Association for Computational Linguistics</i> , <b>2021</b> , 9, 176-194	5.6	28
106	Network Embedding: Theories, Methods, and Applications. <i>Synthesis Lectures on Artificial Intelligence and Machine Learning</i> , <b>2021</b> , 15, 1-242	9.3	1
105	Sememe knowledge computation: a review of recent advances in application and expansion of sememe knowledge bases. <i>Frontiers of Computer Science</i> , <b>2021</b> , 15, 1	2.2	0
104	EnglishBot: An AI-Powered Conversational System for Second Language Learning <b>2021</b> ,		4
103	Few-Shot Conversational Dense Retrieval <b>2021</b> ,		6
102	Country Image in COVID-19 Pandemic: A Case Study of China. <i>IEEE Transactions on Big Data</i> , <b>2021</b> , 7, 81-92	3.2	6
101	CokeBERT: Contextual knowledge selection and embedding towards enhanced pre-trained language models. <i>AI Open</i> , <b>2021</b> , 2, 127-134	22.4	2
100	Full-Scale Information Diffusion Prediction With Reinforced Recurrent Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	3
99	CPM: A large-scale generative Chinese Pre-trained language model. <i>AI Open</i> , <b>2021</b> , 2, 93-99	22.4	6
98	CSS-LM: A Contrastive Framework for Semi-Supervised Fine-Tuning of Pre-Trained Language Models. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 2930-2941	3.6	2
97	Knowledge Transfer via Pre-training for Recommendation: A Review and Prospect. <i>Frontiers in Big Data</i> , <b>2021</b> , 4, 602071	2.8	4
96	OpenMatch: An Open Source Library for Neu-IR Research <b>2021</b> ,		1
95	Text-Graph Enhanced Knowledge Graph Representation Learning. <i>Frontiers in Artificial Intelligence</i> , <b>2021</b> , 4, 697856	3	2

94	Pre-Trained Models: Past, Present and Future. <i>AI Open</i> , <b>2021</b> ,	22.4	35
93	Know what you don't need: Single-Shot Meta-Pruning for attention heads. <i>AI Open</i> , <b>2021</b> , 2, 36-42	22.4	4
92	Introduction to Graph Neural Networks. <i>Synthesis Lectures on Artificial Intelligence and Machine Learning</i> , <b>2020</b> , 14, 1-127	9.3	11
91	RHINE: Relation Structure-Aware Heterogeneous Information Network Embedding. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2	8
90	Selective Weak Supervision for Neural Information Retrieval <b>2020</b> ,		7
89	Adaptive Graph Encoder for Attributed Graph Embedding <b>2020</b> ,		16
88	Few-Shot Generative Conversational Query Rewriting <b>2020</b> ,		16
87	Multi-Channel Reverse Dictionary Model. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 312-319	5	4
86	Word Representation <b>2020</b> , 13-41		4
85	Sentence Representation <b>2020</b> , 59-89		2
84	Sememe Knowledge Representation <b>2020</b> , 125-161		
83	Word-level Textual Adversarial Attacking as Combinatorial Optimization <b>2020</b> ,		26
82	Document Representation <b>2020</b> , 91-123		
81	World Knowledge Representation <b>2020</b> , 163-216		1
80	Network Representation <b>2020</b> , 217-283		0
79	Cross-Modal Representation <b>2020</b> , 285-317		1
78	Graph neural networks: A review of methods and applications. <i>AI Open</i> , <b>2020</b> , 1, 57-81	22.4	338
77	CED: Credible Early Detection of Social Media Rumors. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2	14

76	Crossmodal Language Grounding in an Embodied Neurocognitive Model. <i>Frontiers in Neurorobotics</i> , <b>2020</b> , 14, 52	3.4	9
75	Improving Sequence Modeling Ability of Recurrent Neural Networks via Sememes. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 2364-2373	3.6	2
74	Topic-sensitive neural headline generation. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	0
73	Reinforced Zero-Shot Cross-Lingual Neural Headline Generation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 2572-2584	3.6	1
72	COSINE: Compressive Network Embedding on Large-scale Information Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2	2
71	Integrating Image-Based and Knowledge-Based Representation Learning. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2020</b> , 12, 169-178	3	3
70	A Unified Framework for Community Detection and Network Representation Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2019</b> , 31, 1051-1065	4.2	39
69	Neural Diffusion Model for Microscopic Cascade Study. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2019</b> , 1-1	4.2	9
68	ERNIE: Enhanced Language Representation with Informative Entities <b>2019</b> ,		175
67	Modeling Semantic Compositionality with Sememe Knowledge <b>2019</b> ,		9
66	Multi-scale Information Diffusion Prediction with Reinforced Recurrent Networks <b>2019</b> ,		21
65	Explore Entity Embedding Effectiveness in Entity Retrieval. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 105-116	0.9	3
64	CJRC: A Reliable Human-Annotated Benchmark DataSet for Chinese Judicial Reading Comprehension. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 439-451	0.9	12
63	Automatic Judgment Prediction via Legal Reading Comprehension. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 558-572	0.9	19
62	Legal Cause Prediction with Inner Descriptions and Outer Hierarchies. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 573-586	0.9	1
61	Multi-Interest Network with Dynamic Routing for Recommendation at Tmall <b>2019</b> ,		30
60	Relation Structure-Aware Heterogeneous Information Network Embedding. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 4456-4463	5	31
59	Bootstrapping Knowledge Graphs From Images and Text. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 93	3.4	1

58	Convolutional Neural Networks for Soft-Matching N-Grams in Ad-hoc Search <b>2018</b> ,		90
57	Consistency and Variation in Kernel Neural Ranking Model <b>2018</b> ,		1
56	Zero-Shot Cross-Lingual Neural Headline Generation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2018</b> , 26, 2319-2327	3.6	7
55	Query Suggestion with Feedback Memory Network <b>2018</b> ,		15
54	Cross-lingual Lexical Sememe Prediction <b>2018</b> ,		4
53	Legal Judgment Prediction via Topological Learning <b>2018</b> ,		58
52	Language Modeling with Sparse Product of Sememe Experts <b>2018</b> ,		3
51	OpenKE: An Open Toolkit for Knowledge Embedding <b>2018</b> ,		65
50	Denosing Distantly Supervised Open-Domain Question Answering <b>2018</b> ,		27
49	Entity-Duet Neural Ranking: Understanding the Role of Knowledge Graph Semantics in Neural Information Retrieval <b>2018</b> ,		20
48	Incorporating Chinese Characters of Words for Lexical Sememe Prediction <b>2018</b> ,		8
47	Deep Learning in Knowledge Graph <b>2018</b> , 117-145		4
46	Improving Word Representations with Document Labels. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 863-870	3.6	6
45	PRISM. <i>ACM Transactions on Intelligent Systems and Technology</i> , <b>2017</b> , 8, 1-16	8	4
44	End-to-End Neural Ad-hoc Ranking with Kernel Pooling <b>2017</b> ,		154
43	Recent Advances on Neural Headline Generation. <i>Journal of Computer Science and Technology</i> , <b>2017</b> , 32, 768-784	1.7	12
42	A Neural Network Approach to Jointly Modeling Social Networks and Mobile Trajectories. <i>ACM Transactions on Information Systems</i> , <b>2017</b> , 35, 1-28	4.8	71
41	Incorporating Relation Paths in Neural Relation Extraction <b>2017</b> ,		26

40	Neural Relation Extraction with Multi-lingual Attention <b>2017</b> ,		25
39	CANE: Context-Aware Network Embedding for Relation Modeling <b>2017</b> ,		103
38	Improved Word Representation Learning with Sememes <b>2017</b> ,		36
37	TransNet: Translation-Based Network Representation Learning for Social Relation Extraction <b>2017</b> ,		34
36	Image-embodied Knowledge Representation Learning <b>2017</b> ,		34
35	Fast Network Embedding Enhancement via High Order Proximity Approximation <b>2017</b> ,		61
34	Lexical Sememe Prediction via Word Embeddings and Matrix Factorization <b>2017</b> ,		12
33	Iterative Entity Alignment via Joint Knowledge Embeddings <b>2017</b> ,		79
32	Neural Sentiment Classification with User and Product Attention <b>2016</b> ,		132
31	Relation Classification via Multi-Level Attention CNNs <b>2016</b> ,		161
30	Neural Relation Extraction with Selective Attention over Instances <b>2016</b> ,		285
29	Estimating translation probabilities for social tag suggestion. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 1950-1959	7.8	4
28	Tag Correspondence Model for User Tag Suggestion. <i>Journal of Computer Science and Technology</i> , <b>2015</b> , 30, 1063-1072	1.7	2
27	PRISM: Profession Identification in Social Media with Personal Information and Community Structure. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 15-27	0.3	5
26	Incorporating linguistic knowledge for learning distributed word representations. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118437	3.7	7
25	Modeling Relation Paths for Representation Learning of Knowledge Bases <b>2015</b> ,		192
24	Online Learning of Interpretable Word Embeddings <b>2015</b> ,		14
23	Learning Cross-lingual Word Embeddings via Matrix Co-factorization <b>2015</b> ,		9

22	?????????????. <i>Scientia Sinica Informationis</i> , <b>2015</b> , 45, 1536-1546	2.3	4
21	ImgWordle <b>2014</b> ,		3
20	Quantifying Chinese Happiness via Large-Scale Microblogging Data <b>2014</b> ,		1
19	Discriminating gender on Chinese microblog: A study of online behaviour, writing style and preferred vocabulary <b>2014</b> ,		4
18	A Unified Model for Word Sense Representation and Disambiguation <b>2014</b> ,		87
17	Distant Supervision for Relation Extraction with Matrix Completion <b>2014</b> ,		14
16	Inferring Correspondences from Multiple Sources for Microblog User Tags. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 1-12	0.3	5
15	Portraying user life status from microblogging posts. <i>Tsinghua Science and Technology</i> , <b>2013</b> , 18, 182-195,4		7
14	Creating reflections in public emotion visualization <b>2013</b> ,		1
13	City Flow: Prototype Exploration for Visualizing Urban Traffic Conversations <b>2012</b> ,		4
12	Can prior knowledge help graph-based methods for keyword extraction?. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , <b>2011</b> , 7, 242		
11	Extracting Chinese abbreviation-definition pairs from anchor texts <b>2011</b> ,		1
10	User Behaviors in Related Word Retrieval and New Word Detection. <i>ACM Transactions on Asian Language Information Processing</i> , <b>2011</b> , 10, 1-26		2
9	PLDA+. <i>ACM Transactions on Intelligent Systems and Technology</i> , <b>2011</b> , 2, 1-18	8	67
8	Modeling Social Annotations via Latent Reason Identification. <i>IEEE Intelligent Systems</i> , <b>2010</b> , 25, 42-49	4.2	3
7	FolkDiffusion: A Graph-Based Tag Suggestion Method for Folksonomies. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 231-240	0.9	10
6	Domain-Specific Term Rankings Using Topic Models. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 454-465	0.9	1
5	Clustering to find exemplar terms for keyphrase extraction <b>2009</b> ,		104

- 4 Efficient Text Classification Using Term Projection. *Lecture Notes in Computer Science*, **2009**, 230-241 0.9
- 3 Quantifying Asymmetric Semantic Relations from Query Logs by Resource Allocation. *Lecture Notes in Computer Science*, **2009**, 254-265 0.9
- 2 Text Classification Based on Transfer Learning and Self-Training **2008**, 1
- 1 Asymmetrical query recommendation method based on bipartite network resource allocation **2008**, 8