List of Publications by Year in descending order

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ΖΗΙΗΛΟ ΥΛΝΟ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An attention-based BiLSTM-CRF approach to document-level chemical named entity recognition. Bioinformatics, 2018, 34, 1381-1388. | 4.1 | 277 |
| 2 | BioWordVec,Âimproving biomedical word embeddings with subword information and MeSH. Scientific Data, 2019, 6, 52. | 5.3 | 268 |
| 3 | Drug drug interaction extraction from biomedical literature using syntax convolutional neural network. Bioinformatics, 2016, 32, 3444-3453. | 4.1 | 175 |
| 4 | Drug–drug interaction extraction via hierarchical RNNs on sequence and shortest dependency paths. Bioinformatics, 2018, 34, 828-835. | 4.1 | 120 |
| 5 | A hybrid model based on neural networks for biomedical relation extraction. Journal of Biomedical Informatics, 2018, 81, 83-92. | 4.3 | 97 |
| 6 | Neural network-based approaches for biomedical relation classification: A review. Journal of Biomedical Informatics, 2019, 99, 103294. | 4.3 | 71 |
| 7 | An attention-based effective neural model for drug-drug interactions extraction. BMC Bioinformatics, 2017, 18, 445. | 2.6 | 69 |
| 8 | SemaTyP: a knowledge graph based literature mining method for drug discovery. BMC Bioinformatics, 2018, 19, 193. | 2.6 | 60 |
| 9 | A neural network-based joint learning approach for biomedical entity and relation extraction from biomedical literature. Journal of Biomedical Informatics, 2020, 103, 103384. | 4.3 | 56 |
| 10 | Biomedical named entity recognition using BERT in the machine reading comprehension framework. Journal of Biomedical Informatics, 2021, 118, 103799. | 4.3 | 55 |
| 11 | GrEDeL: A Knowledge Graph Embedding Based Method for Drug Discovery From Biomedical Literatures. IEEE Access, 2019, 7, 8404-8415. | 4.2 | 46 |
| 12 | BioPPISVMExtractor: A protein–protein interaction extractor for biomedical literature using SVM and rich feature sets. Journal of Biomedical Informatics, 2010, 43, 88-96. | 4.3 | 43 |
| 13 | Multiple kernel learning in protein–protein interaction extraction from biomedical literature. Artificial Intelligence in Medicine, 2011, 51, 163-173. | 6.5 | 42 |
| 14 | Incorporating rich background knowledge for gene named entity classification and recognition. BMC Bioinformatics, 2009, 10, 223. | 2.6 | 40 |
| 15 | A graph kernel based on context vectors for extracting drug–drug interactions. Journal of Biomedical Informatics, 2016, 61, 34-43. | 4.3 | 38 |
| 16 | Integrating shortest dependency path and sentence sequence into a deep learning framework for relation extraction in clinical text. BMC Medical Informatics and Decision Making, 2019, 19, 22. | 3.0 | 38 |
| 17 | Disease named entity recognition from biomedical literature using a novel convolutional neural network. BMC Medical Genomics, 2017, 10, 73. | 1.5 | 36 |
| 18 | Exploiting the performance of dictionary-based bio-entity name recognition in biomedical literature. Computational Biology and Chemistry, 2008, 32, 287-291. | 2.3 | 35 |

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| 19 | An effective neural model extracting document level chemical-induced disease relations from biomedical literature. Journal of Biomedical Informatics, 2018, 83, 1-9. | 4.3 | 30 |
| 20 | Drug name recognition in biomedical texts: a machine-learning-based method. Drug Discovery Today, 2014, 19, 610-617. | 6.4 | 29 |
| 21 | A method for predicting protein complex in dynamic PPI networks. BMC Bioinformatics, 2016, 17, 229. | 2.6 | 29 |
| 22 | Chemical–protein interaction extraction via Gaussian probability distribution and external biomedical knowledge. Bioinformatics, 2020, 36, 4323-4330. | 4.1 | 28 |
| 23 | Gene Function Prediction Based on the Gene Ontology Hierarchical Structure. PLoS ONE, 2014, 9, e107187. | 2.5 | 27 |
| 24 | Neighborhood hash graph kernel for protein–protein interaction extraction. Journal of Biomedical Informatics, 2011, 44, 1086-1092. | 4.3 | 26 |
| 25 | Construction of dynamic probabilistic protein interaction networks for protein complex identification. BMC Bioinformatics, 2016, 17, 186. | 2.6 | 26 |
| 26 | Opinion Mining in e-Learning System. , 2007, , . | | 25 |
| 27 | A multiple distributed representation method based on neural network for biomedical event extraction. BMC Medical Informatics and Decision Making, 2017, 17, 171. | 3.0 | 24 |
| 28 | A Deep Learning Approach With Deep Contextualized Word Representations for Chemical–Protein Interaction Extraction From Biomedical Literature. IEEE Access, 2019, 7, 151034-151046. | 4.2 | 24 |
| 29 | A Single Kernel-Based Approach to Extract Drug-Drug Interactions from Biomedical Literature. PLoS ONE, 2012, 7, e48901. | 2.5 | 22 |
| 30 | KGHC: a knowledge graph for hepatocellular carcinoma. BMC Medical Informatics and Decision Making, 2020, 20, 135. | 3.0 | 21 |
| 31 | Extracting drug–drug interactions with hybrid bidirectional gated recurrent unit and graph convolutional network. Journal of Biomedical Informatics, 2019, 99, 103295. | 4.3 | 20 |
| 32 | Biomedical event trigger detection by dependency-based word embedding. BMC Medical Genomics, 2016, 9, 45. | 1.5 | 18 |
| 33 | Adverse drug reaction detection via a multihop self-attention mechanism. BMC Bioinformatics, 2019, 20, 479. | 2.6 | 18 |
| 34 | Sentence representation with manifold learning for biomedical texts. Knowledge-Based Systems, 2021, 218, 106869. | 7.1 | 18 |
| 35 | Exploiting the contextual cues for bio-entity name recognition in biomedical literature. Journal of Biomedical Informatics, 2008, 41, 580-587. | 4.3 | 17 |
| 36 | Attention guided capsule networks for chemical-protein interaction extraction. Journal of Biomedical Informatics, 2020, 103, 103392. | 4.3 | 16 |

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| 37 | Document-Level Biomedical Relation Extraction Using Graph Convolutional Network and Multihead Attention: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e17638. | 2.6 | 15 |
| 38 | Multimodal reasoning based on knowledge graph embedding for specific diseases. Bioinformatics, 2022, 38, 2235-2245. | 4.1 | 15 |
| 39 | PPIExtractor: A Protein Interaction Extraction and Visualization System for Biomedical Literature. IEEE Transactions on Nanobioscience, 2013, 12, 173-181. | 3.3 | 14 |
| 40 | The impact of protein interaction networks' characteristics on computational complex detection methods. Journal of Theoretical Biology, 2018, 439, 141-151. | 1.7 | 14 |
| 41 | Chemical–protein interaction extraction via contextualized word representations and multihead attention. Database: the Journal of Biological Databases and Curation, 2019, 2019, . | 3.0 | 14 |
| 42 | Detection of protein complexes from multiple protein interaction networks using graph embedding. Artificial Intelligence in Medicine, 2019, 96, 107-115. | 6.5 | 14 |
| 43 | Interactive Self-Attentive Siamese Network for Biomedical Sentence Similarity. IEEE Access, 2020, 8, 84093-84104. | 4.2 | 14 |
| 44 | Filtering Gene Ontology semantic similarity for identifying protein complexes in large protein interaction networks. Proteome Science, 2012, 10, S18. | 1.7 | 13 |
| 45 | DIGNiFI: Discovering causative genes for orphan diseases using protein-protein interaction networks. BMC Systems Biology, 2017, 11, 23. | 3.0 | 12 |
| 46 | Protein Complex Identification by Integrating Protein-Protein Interaction Evidence from Multiple Sources. PLoS ONE, 2013, 8, e83841. | 2.5 | 11 |
| 47 | A network embedding model for pathogenic genes prediction by multi-path random walking on heterogeneous network. BMC Medical Genomics, 2019, 12, 188. | 1.5 | 11 |
| 48 | A Graph Convolutional Network–Based Method for Chemical-Protein Interaction Extraction: Algorithm Development. JMIR Medical Informatics, 2020, 8, e17643. | 2.6 | 11 |
| 49 | Exploiting sequence labeling framework to extract document-level relations from biomedical texts. BMC Bioinformatics, 2020, 21, 125. | 2.6 | 10 |
| 50 | MRC4BioER: Joint extraction of biomedical entities and relations in the machine reading comprehension framework. Journal of Biomedical Informatics, 2022, 125, 103956. | 4.3 | 10 |
| 51 | Supervised Learning Based Hypothesis Generation from Biomedical Literature. BioMed Research International, 2015, 2015, 1-12. | 1.9 | 9 |
| 52 | CIDExtractor: A chemical-induced disease relation extraction system for biomedical literature. , 2016, , | | 9 |
| 53 | A neural network approach to chemical and gene/protein entity recognition in patents. Journal of Cheminformatics, 2018, 10, 65. | 6.1 | 9 |
| 54 | Detecting adverse drug reactions from social media based on multi-channel convolutional neural networks. Neural Computing and Applications, 2019, 31, 4799-4808. | 5.6 | 9 |

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| 55 | Semi-supervised method for biomedical event extraction. Proteome Science, 2013, 11, S17. | 1.7 | 8 |
| 56 | An uncertain model-based approach for identifying dynamic protein complexes in uncertain protein interaction networks. BMC Genomics, 2017, 18, 743. | 2.8 | 8 |
| 57 | Full-attention Based Drug Drug Interaction Extraction Exploiting User-generated Content. , 2018, , . | | 8 |
| 58 | A multi-task learning based approach to biomedical entity relation extraction. , 2018, , . | | 8 |
| 59 | Lexicon Knowledge Boosted Interaction Graph Network for Adverse Drug Reaction Recognition From Social Media. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2777-2786. | 6.3 | 7 |
| 60 | A network representation approach for COVID-19 drug recommendation. Methods, 2022, 198, 3-10. | 3.8 | 7 |
| 61 | Biomedical event trigger detection by dependency-based word embedding. , 2015, , . | | 6 |
| 62 | ML-CNN: A novel deep learning based disease named entity recognition architecture. , 2016, , . | | 6 |
| 63 | Identifying protein complexes based on node embeddings obtained from protein-protein interaction networks. BMC Bioinformatics, 2018, 19, 332. | 2.6 | 6 |
| 64 | Incorporating User Generated Content for Drug Drug Interaction Extraction Based on Full Attention Mechanism. IEEE Transactions on Nanobioscience, 2019, 18, 360-367. | 3.3 | 6 |
| 65 | Biomedical document triage using a hierarchical attention-based capsule network. BMC Bioinformatics, 2020, 21, 380. | 2.6 | 6 |
| 66 | Cross2Self-attentive Bidirectional Recurrent Neural Network with BERT for Biomedical Semantic Text Similarity. , 2020, , . | | 6 |
| 67 | Semisupervised Learning Based Disease-Symptom and Symptom-Therapeutic Substance Relation Extraction from Biomedical Literature. BioMed Research International, 2016, 2016, 1-13. | 1.9 | 5 |
| 68 | A Knowledge Graph based Bidirectional Recurrent Neural Network Method for Literature-based Discovery. , 2018, , . | | 5 |
| 69 | SVM-based Protein-Protein Interaction Extraction from Medline abstracts. , 2007, , . | | 4 |
| 70 | Ontology integration to identify protein complex in protein interaction networks. , 2010, , . | | 4 |
| 71 | A hybrid protein-protein interaction triple extraction method for biomedical literature. , 2017, , . | | 4 |
| 72 | Hierarchical Recurrent Convolutional Neural Network for Chemical-protein Relation Extraction | | 4 |

from Biomedical Literature. , 2018, , .

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| 73 | Document triage for identifying protein–protein interactions affected by mutations: a neural network ensemble approach. Database: the Journal of Biological Databases and Curation, 2018, 2018, . | 3.0 | 4 |
| 74 | Document Retrieval for Precision Medicine Using a Deep Learning Ensemble Method. JMIR Medical Informatics, 2021, 9, e28272. | 2.6 | 4 |
| 75 | Adversarial transfer network with bilinear attention for the detection of adverse drug reactions from social media. Applied Soft Computing Journal, 2021, 106, 107358. | 7.2 | 4 |
| 76 | Extracting biomedical relations via a multi-head attention based graph convolutional network. , 2020, | | 4 |
| 77 | Gated iterative capsule network for adverse drug reaction detection from social media. , 2020, , . | | 4 |
| 78 | Deep learning with language models improves named entity recognition for PharmaCoNER. BMC Bioinformatics, 2021, 22, 602. | 2.6 | 4 |
| 79 | Ranking support vector machine for multiple kernels output combination in protein–protein interaction extraction from biomedical literature. Proteomics, 2011, 11, 3811-3817. | 2.2 | 3 |
| 80 | Chemical-protein interaction extraction from biomedical literature: a hierarchical recurrent convolutional neural network method. International Journal of Data Mining and Bioinformatics, 2019, 22, 113. | 0.1 | 3 |
| 81 | Incorporating representation learning and multihead attention to improve biomedical cross-sentence n-ary relation extraction. BMC Bioinformatics, 2020, 21, 312. | 2.6 | 3 |
| 82 | Biomedical event extraction based on distributed representation and deep learning. , 2016, , . | | 3 |
| 83 | Opinion Mining in e-Learning System. , 2007, , . | | 3 |
| 84 | Star-BiLSTM-LAN for Document-level Mutation-Disease Relation Extraction from Biomedical Literature. , 2020, , . | | 3 |
| 85 | Refining electronic medical records representation in manifold subspace. BMC Bioinformatics, 2022, 23, 115. | 2.6 | 3 |
| 86 | Co-Attentive Span Network with Multi-task learning for Biomedical Named Entity Recognition. , 2021, , . | | 3 |
| 87 | Two Approaches for Biomedical Text Classification. , 2007, , . | | 2 |
| 88 | Applying Feature Coupling Generalization for Protein-Protein Interaction Extraction. , 2009, , . | | 2 |
| 89 | Identifying Protein Complexes from PPI Networks Using GO Semantic Similarity. , 2011, , . | | 2 |
| 90 | Integrating multiple biomedical resources for protein complex prediction. , 2013, , . | | 2 |

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| # | Article | IF | CITATIONS |
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| 91 | Protein-Protein Interaction Article Classification: A Knowledge-enriched Self-Attention Convolutional Neural Network Approach. , 2018, , . | | 2 |
| 92 | HMNPPID—human malignant neoplasm protein–protein interaction database. Human Genomics, 2019, 13, 44. | 2.9 | 2 |
| 93 | Question-answering system based on concepts and statistics. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2007, 2, 23-28. | 0.6 | 1 |
| 94 | A syntactic rule-based method for automatic pathway information extraction from biomédical literature. , 2012, , . | | 1 |
| 95 | Classifying protein complexes from candidate subgraphs using fuzzy machine learning model. , 2012, , . | | 1 |
| 96 | PPIExtractor: A protein-protein interaction Extractor for biomédical literature. , 2012, , . | | 1 |
| 97 | Discover potential adverse drug reactions using the skip-gram model. , 2015, , . | | 1 |
| 98 | Learning to rank for biomedical information retrieval. , 2015, , . | | 1 |
| 99 | Deep neural network based protein-protein interaction extraction from biomedical literature. , 2015, , . | | 1 |
| 100 | Disease-specific protein complex detection in the human protein interaction network with a supervised learning method. , 2016, , . | | 1 |
| 101 | Multipath2vec: Predicting Pathogenic Genes via Heterogeneous Network Embedding. , 2018, , . | | 1 |
| 102 | Protein Complexes Detection Based on Global Network Representation Learning. , 2018, , . | | 1 |
| 103 | A Semantic Network Encoder for Associated Fact Prediction. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5114-5125. | 5.7 | 1 |
| 104 | A Graph-boosted Framework for Adverse Drug Event Detection on Twitter. , 2020, , . | | 1 |
| 105 | Manifold biomedical text sentence embedding. Neurocomputing, 2022, 492, 117-125. | 5.9 | 1 |
| 106 | SGAT: a Self-supervised Graph Attention Network for Biomedical Relation Extraction. , 2021, , . | | 1 |
| 107 | Gene Name Automatic Recognition in Biomedical Literature. , 2006, , . | | 0 |
| 108 | Ranking SVM for multiple kernels output combination in protein-protein interaction extraction from biomedical literature. , 2010, , . | | 0 |

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| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Combining labeled and unlabeled data for biomédical event extraction. , 2012, , . | | Ο |
| 110 | Data integration and supervised learning based protein complex detection method. , 2014, , . | | 0 |
| 111 | Deep graph search based disease related knowledge summarization from biomedical literature. , 2014, , | | Ο |
| 112 | Exploring the relation between the characteristics of protein interaction networks and the performances of computational complex detection methods. , 2014, , . | | 0 |
| 113 | Disease Related Knowledge Summarization Based on Deep Graph Search. BioMed Research International, 2015, 2015, 1-11. | 1.9 | 0 |
| 114 | DIGNiFI. , 2016, , . | | 0 |
| 115 | PC-SENE: A node embedding based method for protein complex detection. , 2018, , . | | Ο |
| 116 | HMNPPID: A Database of Protein-protein Interactions Associated with Human Malignant Neoplasms. , 2018, , . | | 0 |
| 117 | Residual Connected Enhanced Sequential Inference Model for Natural Language Inference. , 2019, , . | | 0 |
| 118 | Disease Gene Prediction Based on Heterogeneous Probabilistic Hypergraph Ranking. , 2019, , . | | 0 |