# Carol Friedman

List of Publications by Year
in descending order

| 102 papers | 5,202 citations | 109137<br>35 h-index | 91712<br>69 g-index |
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| 102 all docs | 102 docs citations | 102 times ranked | 4726 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 1 | Automated Encoding of Clinical Documents Based on Natural Language Processing. Journal of the American Medical Informatics Association: JAMIA, 2004, 11, 392-402. | 2.2 | 430 |
| 2 | Active Computerized Pharmacovigilance Using Natural Language Processing, Statistics, and Electronic Health Records: A Feasibility Study. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 328-337. | 2.2 | 241 |
| 3 | GeneWays: a system for extracting, analyzing, visualizing, and integrating molecular pathway data. Journal of Biomedical Informatics, 2004, 37, 43-53. | 2.5 | 230 |
| 4 | Drugâ€"drug interaction through molecular structure similarity analysis. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 1066-1074. | 2.2 | 185 |
| 5 | Similarity-based modeling in large-scale prediction of drug-drug interactions. Nature Protocols, 2014, 9, 2147-2163. | 5.5 | 178 |
| 6 | Validating drug repurposing signals using electronic health records: a case study of metformin associated with reduced cancer mortality. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 179-191. | 2.2 | 178 |
| 7 | Using BLAST for identifying gene and protein names in journal articles. Gene, 2000, 259, 245-252. | 1.0 | 177 |
| 8 | Use of Natural Language Processing to Translate Clinical Information from a Database of 889,921 Chest Radiographic Reports. Radiology, 2002, 224, 157-163. | 3.6 | 174 |
| 9 | Automated Acquisition of Disease-Drug Knowledge from Biomedical and Clinical Documents: An Initial Study. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 87-98. | 2.2 | 172 |
| 10 | Two biomedical sublanguages: a description based on the theories of Zellig Harris. Journal of Biomedical Informatics, 2002, 35, 222-235. | 2.5 | 164 |
| 11 | Combing signals from spontaneous reports and electronic health records for detection of adverse drug reactions. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 413-419. | 2.2 | 152 |
| 12 | Mining multi-item drug adverse effect associations in spontaneous reporting systems. BMC Bioinformatics, 2010, 11, S7. | 1.2 | 143 |
| 13 | Gene name ambiguity of eukaryotic nomenclatures. Bioinformatics, 2005, 21, 248-256. | 1.8 | 122 |
| 14 | Mapping Abbreviations to Full Forms in Biomedical Articles. Journal of the American Medical Informatics Association: JAMIA, 2002, 9, 262-272. | 2.2 | 118 |
| 15 | Detection of drugâ€"drug interactions through data mining studies using clinical sources, scientific literature and social media. Briefings in Bioinformatics, 2018, 19, 863-877. | 3.2 | 103 |
| 16 | Deep Phenotyping on Electronic Health Records Facilitates Genetic Diagnosis by Clinical Exomes. American Journal of Human Genetics, 2018, 103, 58-73. | 2.6 | 99 |
| 17 | Extracting information on pneumonia in infants using natural language processing of radiology reports. Journal of Biomedical Informatics, 2005, 38, 314-321. | 2.5 | 98 |
| 18 | Detection of Drug-Drug Interactions by Modeling Interaction Profile Fingerprints. PLoS ONE, 2013, 8, e58321. | 1.1 | 96 |

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|---|---------|-----|-----------|
| 19 | Proton Pump Inhibitors and Risk for Recurrent Clostridium difficile Infection Among Inpatients. American Journal of Gastroenterology, 2013, 108, 1794-1801. | 0.2 | 88 |
| 20 | Automatic Resolution of Ambiguous Terms Based on Machine Learning and Conceptual Relations in the UMLS. Journal of the American Medical Informatics Association: JAMIA, 2002, 9, 621-636. | 2.2 | 85 |
| 21 | A Multi-aspect Comparison Study of Supervised Word Sense Disambiguation. Journal of the American Medical Informatics Association: JAMIA, 2004, 11, 320-331. | 2.2 | 76 |
| 22 | Disambiguating Ambiguous Biomedical Terms in Biomedical Narrative Text: An Unsupervised Method. Journal of Biomedical Informatics, 2001, 34, 249-261. | 2.5 | 68 |
| 23 | A collaborative approach to developing an electronic health record phenotyping algorithm for drug-induced liver injury. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e243-e252. | 2.2 | 63 |
| 24 | Exploiting semantic relations for literature-based discovery. AMIA ... Annual Symposium proceedings, 2006, , 349-53. | 0.2 | 59 |
| 25 | Coding Neuroradiology Reports for the Northern Manhattan Stroke Study: A Comparison of Natural Language Processing and Manual Review. Journal of Biomedical Informatics, 2000, 33, 1-10. | 0.7 | 58 |
| 26 | Facilitating adverse drug event detection in pharmacovigilance databases using molecular structure similarity: application to rhabdomyolysis. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, i73-i80. | 2.2 | 56 |
| 27 | Respiratory Isolation of Tuberculosis Patients Using Clinical Guidelines and an Automated Clinical Decision Support System. Infection Control and Hospital Epidemiology, 1998, 19, 94-100. | 1.0 | 51 |
| 28 | Selecting information in electronic health records for knowledge acquisition. Journal of Biomedical Informatics, 2010, 43, 595-601. | 2.5 | 51 |
| 29 | Gene symbol disambiguation using knowledge-based profiles. Bioinformatics, 2007, 23, 1015-1022. | 1.8 | 50 |
| 30 | A Method to Combine Signals from Spontaneous Reporting Systems and Observational Healthcare Data to Detect Adverse Drug Reactions. Drug Safety, 2015, 38, 895-908. | 1.4 | 49 |
| 31 | Syndromic Surveillance Using Ambulatory Electronic Health Records. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 354-361. | 2.2 | 48 |
| 32 | Respiratory Isolation of Tuberculosis Patients Using Clinical Guidelines and an Automated Clinical Decision Support System. Infection Control and Hospital Epidemiology, 1998, 19, 94-100. | 1.0 | 48 |
| 33 | Machine learning and word sense disambiguation in the biomedical domain: design and evaluation issues. BMC Bioinformatics, 2006, 7, 334. | 1.2 | 46 |
| 34 | Use of computerized surveillance to detect nosocomial pneumonia in neonatal intensive care unit patients. American Journal of Infection Control, 2005, 33, 439-443. | 1.1 | 42 |
| 35 | Discovering Disease Associations by Integrating Electronic Clinical Data and Medical Literature. PLoS ONE, 2011, 6, e21132. | 1.1 | 41 |
| 36 | Information visualization techniques in bioinformatics during the postgenomic era. Drug Discovery Today Biosilico, 2004, 2, 237-245. | 0.7 | 37 |

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| 37 | A method for controlling complex confounding effects in the detection of adverse drug reactions using electronic health records. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 308-314. | 2.2 | 37 |
| 38 | Of truth and pathways: chasing bits of information through myriads of articles. Bioinformatics, 2002, 18, S249-S257. | 1.8 | 36 |
| 39 | Quantitative Assessment of Dictionary-based Protein Named Entity Tagging. Journal of the American Medical Informatics Association: JAMIA, 2006, 13, 497-507. | 2.2 | 35 |
| 40 | Semantic Classification of Biomedical Concepts Using Distributional Similarity. Journal of the American Medical Informatics Association: JAMIA, 2007, 14, 467-477. | 2.2 | 35 |
| 41 | A study of abbreviations in clinical notes. AMIA ... Annual Symposium proceedings, 2007, , 821-5. | 0.2 | 34 |
| 42 | Extracting phenotypic information from the literature via natural language processing. Studies in Health Technology and Informatics, 2004, 107, 758-62. | 0.2 | 34 |
| 43 | Human and Automated Coding of Rehabilitation Discharge Summaries According to the International Classification of Functioning, Disability, and Health. Journal of the American Medical Informatics Association: JAMIA, 2006, 13, 508-515. | 2.2 | 33 |
| 44 | Discovering Novel Adverse Drug Events Using Natural Language Processing and Mining of the Electronic Health Record. Lecture Notes in Computer Science, 2009, , 1-5. | 1.0 | 33 |
| 45 | Knowledge Management, Data Mining, and Text Mining in Medical Informatics. , 2005, , 3-33. | | 32 |
| 46 | PhenoGO: an integrated resource for the multiscale mining of clinical and biological data. BMC Bioinformatics, 2009, 10, S8. | 1.2 | 32 |
| 47 | Mining electronic health records for adverse drug effects using regression based methods. , 2010, , . | | 32 |
| 48 | Deriving comorbidities from medical records using natural language processing. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e239-e242. | 2.2 | 32 |
| 49 | Characterizing environmental and phenotypic associations using information theory and electronic health records. BMC Bioinformatics, 2009, 10, S13. | 1.2 | 31 |
| 50 | ISO reference terminology models for nursing: Applicability for natural language processing of nursing narratives. International Journal of Medical Informatics, 2005, 74, 615-622. | 1.6 | 29 |
| 51 | Methods for Building Sense Inventories of Abbreviations in Clinical Notes. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 103-108. | 2.2 | 29 |
| 52 | Potential utility of precision medicine for older adults with polypharmacy: a case series study. Pharmacogenomics and Personalized Medicine, 2016, 9, 31. | 0.4 | 29 |
| 53 | Bio-Ontology and text: bridging the modeling gap. Bioinformatics, 2006, 22, 2421-2429. | 1.8 | 28 |
| 54 | Toward multimodal signal detection of adverse drug reactions. Journal of Biomedical Informatics, 2017, 76, 41-49. | 2.5 | 28 |

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|---|---------|-----|-----------|
| 55 | Natural Language Processing in Health Care and Biomedicine. , 2014, , 255-284. | | 28 |
| 56 | PhenoGO: assigning phenotypic context to gene ontology annotations with natural language processing. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2006, , 64-75. | 0.7 | 28 |
| 57 | Statistical Mining of Potential Drug Interaction Adverse Effects in FDA's Spontaneous Reporting System. AMIA ... Annual Symposium proceedings, 2010, 2010, 281-5. | 0.2 | 28 |
| 58 | Enhancing Adverse Drug Event Detection in Electronic Health Records Using Molecular Structure Similarity: Application to Pancreatitis. PLoS ONE, 2012, 7, e41471. | 1.1 | 25 |
| 59 | Discovery of protein interaction networks shared by diseases. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2007, , 76-87. | 0.7 | 25 |
| 60 | MINING TERMINOLOGICAL KNOWLEDGE IN LARGE BIOMEDICAL CORPORA. , 2002, , . | | 24 |
| 61 | A drug-adverse event extraction algorithm to support pharmacovigilance knowledge mining from PubMed citations. AMIA ... Annual Symposium proceedings, 2011, 2011, 1464-70. | 0.2 | 23 |
| 62 | Medication-indication knowledge bases: a systematic review and critical appraisal. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1261-1270. | 2.2 | 22 |
| 63 | Pharmacogenetic polymorphism as an independent risk factor for frequent hospitalizations in older adults with polypharmacy: a pilot study. Pharmacogenomics and Personalized Medicine, 2016, Volume 9, 107-116. | 0.4 | 21 |
| 64 | Ensembles of natural language processing systems for portable phenotyping solutions. Journal of Biomedical Informatics, 2019, 100, 103318. | 2.5 | 19 |
| 65 | Determining the reasons for medication prescriptions in the EHR using knowledge and natural language processing. AMIA ... Annual Symposium proceedings, 2011, 2011, 768-76. | 0.2 | 19 |
| 66 | Automated knowledge acquisition from clinical narrative reports. AMIA ... Annual Symposium proceedings, 2008, , 783-7. | 0.2 | 18 |
| 67 | State of the Art and Development of a Drug-Drug Interaction Large Scale Predictor Based on 3D Pharmacophoric Similarity. Current Drug Metabolism, 2014, 15, 490-501. | 0.7 | 16 |
| 68 | A vocabulary development and visualization tool based on natural language processing and the mining of textual patient reports. Journal of Biomedical Informatics, 2003, 36, 189-201. | 2.5 | 15 |
| 69 | Qualitative assessment of the International Classification of Functioning, Disability, and Health with respect to the desiderata for controlled medical vocabularies. International Journal of Medical Informatics, 2006, 75, 384-395. | 1.6 | 15 |
| 70 | Terminology model discovery using natural language processing and visualization techniques. Journal of Biomedical Informatics, 2006, 39, 626-636. | 2.5 | 15 |
| 71 | An automated tool for detecting medication overuse based on the electronic health records. Pharmacoepidemiology and Drug Safety, 2013, 22, 183-189. | 0.9 | 15 |
| 72 | Visualizing information across multidimensional post-genomic structured and textual databases. Bioinformatics, 2005, 21, 1659-1667. | 1.8 | 14 |

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| 73 | Using contextual and lexical features to restructure and validate the classification of biomedical concepts. BMC Bioinformatics, 2007, 8, 264. | 1.2 | 14 |
| 74 | Automatic extraction of gene and protein synonyms from MEDLINE and journal articles. Proceedings, 2002, , 919-23. | 0.6 | 13 |
| 75 | Semantic reclassification of the UMLS concepts. Bioinformatics, 2008, 24, 1971-1973. | 1.8 | 12 |
| 76 | Combining corpus-derived sense profiles with estimated frequency information to disambiguate clinical abbreviations. AMIA ... Annual Symposium proceedings, 2012, 2012, 1004-13. | 0.2 | 12 |
| 77 | A new clustering method for detecting rare senses of abbreviations in clinical notes. Journal of Biomedical Informatics, 2012, 45, 1075-1083. | 2.5 | 11 |
| 78 | Monitoring prescribing patterns using regression and electronic health records. BMC Medical Informatics and Decision Making, 2017, 17, 175. | 1.5 | 11 |
| 79 | Using Rich Data on Comorbidities in Case-Control Study Design with Electronic Health Record Data Improves Control of Confounding in the Detection of Adverse Drug Reactions. PLoS ONE, 2016, 11, e0164304. | 1.1 | 10 |
| 80 | A comparison of the Charlson comorbidities derived from medical language processing and administrative data. Proceedings, 2002, , 160-4. | 0.6 | 10 |
| 81 | A two-site survey of medical center personnel's willingness to share clinical data for research: implications for reproducible health NLP research. BMC Medical Informatics and Decision Making, 2019, 19, 70. | 1.5 | 8 |
| 82 | Integrating heterogeneous knowledge sources to acquire executable drug-related knowledge. AMIA ... Annual Symposium proceedings, 2010, 2010, 852-6. | 0.2 | 8 |
| 83 | Semantic Text Parsing for Patient Records. , 2005, , 423-448. | | 7 |
| 84 | Natural language processing and visualization in the molecular imaging domain. Journal of Biomedical Informatics, 2007, 40, 270-281. | 2.5 | 7 |
| 85 | Natural Language Processing for Health-Related Texts. , 2021, , 241-272. | | 7 |
| 86 | Disseminating natural language processed clinical narratives. AMIA ... Annual Symposium proceedings, 2006, , 126-30. | 0.2 | 7 |
| 87 | Evaluation considerations for EHR-based phenotyping algorithms: A case study for drug-induced liver injury. AMIA Summits on Translational Science Proceedings, 2013, 2013, 130-4. | 0.4 | 7 |
| 88 | Generating executable knowledge for evidence-based medicine using natural language and semantic processing. AMIA ... Annual Symposium proceedings, 2006, , 56-60. | 0.2 | 6 |
| 89 | Detection of practice pattern trends through Natural Language Processing of clinical narratives and biomedical literature. AMIA ... Annual Symposium proceedings, 2007, , 120-4. | 0.2 | 5 |
| 90 | Word sense disambiguation via semantic type classification. AMIA ... Annual Symposium proceedings, 2008, , 177-81. | 0.2 | 5 |

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| 91 | Automated Summarization of Publications Associated with Adverse Drug Reactions from PubMed. AMIA Summits on Translational Science Proceedings, 2016, 2016, 68-77. | 0.4 | 4 |
| 92 | Extracting information on pneumonia in infants using natural language processing of radiology reports. , 2003, , . | | 3 |
| 93 | Automated Determination of Publications Related to Adverse Drug Reactions in PubMed. AMIA Summits on Translational Science Proceedings, 2015, 2015, 31-5. | 0.4 | 3 |
| 94 | Pharmacogenomic Approaches for Automated Medication Risk Assessment in People with Polypharmacy. AMIA Summits on Translational Science Proceedings, 2018, 2017, 142-151. | 0.4 | 3 |
| 95 | Automated Metabolic Phenotyping of Cytochrome Polymorphisms Using PubMed Abstract Mining. AMIA ... Annual Symposium proceedings, 2017, 2017, 535-544. | 0.2 | 2 |
| 96 | Generating quality word sense disambiguation test sets based on MeSH indexing. AMIA ... Annual Symposium proceedings, 2009, 2009, 183-7. | 0.2 | 1 |
| 97 | An automated system for retrieving herb-drug interaction related articles from MEDLINE. AMIA Summits on Translational Science Proceedings, 2016, 2016, 140-9. | 0.4 | 1 |
| 98 | Response to Abdallah et al.. American Journal of Gastroenterology, 2014, 109, 602-603. | 0.2 | 0 |
| 99 | Response to Daniell. American Journal of Gastroenterology, 2014, 109, 922-923. | 0.2 | 0 |
| 100 | ZebraHunter: searching rare medical diagnoses and retrieving relevant citations. AMIA ... Annual Symposium proceedings, 2006, , 1094. | 0.2 | 0 |
| 101 | Evaluation of an Ontology-anchored Natural Language-based Approach for Asserting Multi-scale Biomolecular Networks for Systems Medicine. Summit on Translational Bioinformatics, 2010, 2010, 6-10. | 0.7 | 0 |
| 102 | Crowdsourcing Public Opinion for Sharing Medical Records for the Advancement of Science. Studies in Health Technology and Informatics, 2019, 264, 1393-1397. | 0.2 | 0 |