

# Neil R Smalheiser

## 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.

118  
papers

5,228  
citations

38  
h-index

71  
g-index

127  
ext. papers

5,739  
ext. citations

5.3  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
118	An interactive system for finding complementary literatures: a stimulus to scientific discovery. <i>Artificial Intelligence</i> , <b>1997</b> , 91, 183-203	3.6	293
117	Mammalian microRNAs derived from genomic repeats. <i>Trends in Genetics</i> , <b>2005</b> , 21, 322-6	8.5	253
116	Plasma Exosomal miRNAs in Persons with and without Alzheimer Disease: Altered Expression and Prospects for Biomarkers. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139233	3.7	228
115	Dicer and eIF2c are enriched at postsynaptic densities in adult mouse brain and are modified by neuronal activity in a calpain-dependent manner. <i>Journal of Neurochemistry</i> , <b>2005</b> , 94, 896-905	6	225
114	MicroRNA expression is down-regulated and reorganized in prefrontal cortex of depressed suicide subjects. <i>PLoS ONE</i> , <b>2012</b> , 7, e33201	3.7	224
113	Expression of microRNAs and their precursors in synaptic fractions of adult mouse forebrain. <i>Journal of Neurochemistry</i> , <b>2008</b> , 106, 650-61	6	212
112	Exosomal transfer of proteins and RNAs at synapses in the nervous system. <i>Biology Direct</i> , <b>2007</b> , 2, 35	7.2	189
111	Antidepressants alter cell proliferation in the adult brain in vivo and in neural cultures in vitro. <i>European Journal of Pharmacology</i> , <b>2001</b> , 411, 67-70	5.3	167
110	Author Name Disambiguation in MEDLINE. <i>ACM Transactions on Knowledge Discovery From Data</i> , <b>2009</b> , 3,	4	155
109	Using ARROWSMITH: a computer-assisted approach to formulating and assessing scientific hypotheses. <i>Computer Methods and Programs in Biomedicine</i> , <b>1998</b> , 57, 149-53	6.9	143
108	Laminin as a substrate for retinal axons in vitro. <i>Developmental Brain Research</i> , <b>1984</b> , 314, 136-40		142
107	The relationship between perlecan and dystroglycan and its implication in the formation of the neuromuscular junction. <i>Cell Adhesion and Communication</i> , <b>1998</b> , 5, 475-89		139
106	Alu elements within human mRNAs are probable microRNA targets. <i>Trends in Genetics</i> , <b>2006</b> , 22, 532-6	8.5	138
105	Author name disambiguation. <i>Annual Review of Information Science &amp; Technology</i> , <b>2009</b> , 43, 1-43		132
104	Expression of microRNAs and other small RNAs in prefrontal cortex in schizophrenia, bipolar disorder and depressed subjects. <i>PLoS ONE</i> , <b>2014</b> , 9, e86469	3.7	131
103	Purification of cranin, a laminin binding membrane protein. Identity with dystroglycan and reassessment of its carbohydrate moieties. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 15425-33	5.4	123
102	Structural analysis of sequences O-linked to mannose reveals a novel Lewis X structure in cranin (dystroglycan) purified from sheep brain. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 23698-703	5.4	106

101	A probabilistic similarity metric for Medline records: A model for author name disambiguation. <i>Journal of the Association for Information Science and Technology</i> , <b>2005</b> , 56, 140-158		104
100	microRNA regulation of synaptic plasticity. <i>NeuroMolecular Medicine</i> , <b>2009</b> , 11, 133-40	4.6	97
99	MicroRNA expression in rat brain exposed to repeated inescapable shock: differential alterations in learned helplessness vs. non-learned helplessness. <i>International Journal of Neuropsychopharmacology</i> , <b>2011</b> , 14, 1315-25	5.8	91
98	Design and implementation of Metta, a metasearch engine for biomedical literature retrieval intended for systematic reviewers. <i>Health Information Science and Systems</i> , <b>2014</b> , 2, 1	5.1	77
97	Identifying reports of randomized controlled trials (RCTs) via a hybrid machine learning and crowdsourcing approach. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2017</b> , 24, 1165-1168	8.6	75
96	EST analyses predict the existence of a population of chimeric microRNA precursor-mRNA transcripts expressed in normal human and mouse tissues. <i>Genome Biology</i> , <b>2003</b> , 4, 403	18.3	74
95	Linking estrogen to Alzheimer's disease: an informatics approach. <i>Neurology</i> , <b>1996</b> , 47, 809-10	6.5	72
94	Towards effective and rewarding data sharing. <i>Neuroinformatics</i> , <b>2003</b> , 1, 289-95	3.2	63
93	The RNA-centred view of the synapse: non-coding RNAs and synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369,	5.8	56
92	Information discovery from complementary literatures: Categorizing viruses as potential weapons. <i>Journal of the Association for Information Science and Technology</i> , <b>2001</b> , 52, 797-812		55
91	Rapid regulation of neurite outgrowth and retraction by phospholipase A2-derived arachidonic acid and its metabolites. <i>Brain Research</i> , <b>1996</b> , 721, 39-48	3.7	55
90	Endogenous siRNAs and noncoding RNA-derived small RNAs are expressed in adult mouse hippocampus and are up-regulated in olfactory discrimination training. <i>Rna</i> , <b>2011</b> , 17, 166-81	5.8	54
89	ADAM: another database of abbreviations in MEDLINE. <i>Bioinformatics</i> , <b>2006</b> , 22, 2813-8	7.2	53
88	Arrowsmith two-node search interface: a tutorial on finding meaningful links between two disparate sets of articles in MEDLINE. <i>Computer Methods and Programs in Biomedicine</i> , <b>2009</b> , 94, 190-7	6.9	50
87	A quantitative model for linking two disparate sets of articles in MEDLINE. <i>Bioinformatics</i> , <b>2007</b> , 23, 1658-65	6.5	48
86	Ranking indirect connections in literature-based discovery: The role of medical subject headings. <i>Journal of the Association for Information Science and Technology</i> , <b>2006</b> , 57, 1427-1439		47
85	The possible role of "sibling neurite bias" in the coordination of neurite extension, branching, and survival. <i>Journal of Neurobiology</i> , <b>1984</b> , 15, 517-29		47
84	Neurites from mouse retina and dorsal root ganglion explants show specific behavior within co-cultured tectum or spinal cord. <i>Brain Research</i> , <b>1981</b> , 208, 499-505	3.7	44

83	Localization of cranin (dystroglycan) at sites of cell-matrix and cell-cell contact: recruitment to focal adhesions is dependent upon extracellular ligands. <i>Cell Adhesion and Communication</i> , <b>1996</b> , 4, 281-96		43
82	Development of ganglion cells and their axons in organized cultures of fetal mouse retinal explants. <i>Brain Research</i> , <b>1981</b> , 204, 159-78	3.7	42
81	Expression of a neurally related laminin binding protein by neural crest-derived cells that colonize the gut: relationship to the formation of enteric ganglia. <i>Journal of Comparative Neurology</i> , <b>1991</b> , 313, 625-42	3.4	40
80	Anne O'Tate: A tool to support user-driven summarization, drill-down and browsing of PubMed search results. <i>Journal of Biomedical Discovery and Collaboration</i> , <b>2008</b> , 3, 2		38
79	Natural antisense transcripts are co-expressed with sense mRNAs in synaptoneurosomes of adult mouse forebrain. <i>Neuroscience Research</i> , <b>2008</b> , 62, 236-9	2.9	35
78	Specific neuritic pathways and arborizations formed by fetal mouse dorsal root ganglion cells within organized spinal cord explants in culture: a peroxidase-labeling study. <i>Developmental Brain Research</i> , <b>1981</b> , 254, 383-95		34
77	Primary microRNA precursor transcripts are localized at post-synaptic densities in adult mouse forebrain. <i>Journal of Neurochemistry</i> , <b>2012</b> , 123, 459-66	6	33
76	Literature-based discovery: Beyond the ABCs. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 218-224		32
75	Enoxacin Elevates MicroRNA Levels in Rat Frontal Cortex and Prevents Learned Helplessness. <i>Frontiers in Psychiatry</i> , <b>2014</b> , 5, 6	5	32
74	Morphologic plasticity of rapid-onset neurites in NG108-15 cells stimulated by substratum-bound laminin. <i>Developmental Brain Research</i> , <b>1989</b> , 45, 39-47		29
73	Olfactory discrimination training up-regulates and reorganizes expression of microRNAs in adult mouse hippocampus. <i>ASN Neuro</i> , <b>2010</b> , 2, e00028	5.3	28
72	Regulation of mammalian microRNA processing and function by cellular signaling and subcellular localization. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2008</b> , 1779, 678-81	6	27
71	Complications in mammalian microRNA target prediction. <i>Methods in Molecular Biology</i> , <b>2006</b> , 342, 115-274		26
70	Informatics and hypothesis-driven research. <i>EMBO Reports</i> , <b>2002</b> , 3, 702	6.5	26
69	Formation of functional retinotectal connections in co-cultures of fetal mouse explants. <i>Brain Research</i> , <b>1978</b> , 148, 484-92	3.7	26
68	Automated confidence ranked classification of randomized controlled trial articles: an aid to evidence-based medicine. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2015</b> , 22, 707-17	8.6	25
67	A probabilistic similarity metric for Medline records: a model for author name disambiguation <b>2003</b> , 1033.7	3.7	25
66	Collaborative development of the Arrowsmith two node search interface designed for laboratory investigators. <i>Journal of Biomedical Discovery and Collaboration</i> , <b>2006</b> , 1, 8		24

65	A population-based statistical approach identifies parameters characteristic of human microRNA-mRNA interactions. <i>BMC Bioinformatics</i> , <b>2004</b> , 5, 139	3.6	24
64	Expression of Egr-1 in the brain of sleep deprived rats. <i>Molecular Brain Research</i> , <b>1993</b> , 17, 300-6		22
63	Rediscovering Don Swanson: the Past, Present and Future of Literature-Based Discovery. <i>Journal of Data and Information Science</i> , <b>2017</b> , 2, 43-64	1.2	19
62	Rule-based deduplication of article records from bibliographic databases. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2014</b> , 2014, bat086	5	19
61	Role of laminin in stimulating rapid-onset neurites in NG108-15 cells: relative contribution of attachment and motility responses. <i>Developmental Brain Research</i> , <b>1991</b> , 62, 81-9		19
60	Mitochondrial small RNAs that are up-regulated in hippocampus during olfactory discrimination training in mice. <i>Mitochondrion</i> , <b>2011</b> , 11, 994-5	4.9	18
59	Do Neural Cells Communicate with Endothelial Cells via Secretory Exosomes and Microvesicles?. <i>Cardiovascular Psychiatry and Neurology</i> , <b>2009</b> , 2009, 383086		18
58	Synaptic enrichment of microRNAs in adult mouse forebrain is related to structural features of their precursors. <i>Biology Direct</i> , <b>2008</b> , 3, 44	7.2	18
57	Analysis of slow-onset neurite formation in NG108-15 cells: implications for a unified model of neurite elongation. <i>Developmental Brain Research</i> , <b>1989</b> , 45, 49-57		18
56	A probabilistic automated tagger to identify human-related publications. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2018</b> , 2018, 1-8	5	18
55	Examining the Impact of the National Institutes of Health Public Access Policy on the Citation Rates of Journal Articles. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139951	3.7	16
54	Walter Pitts. <i>Perspectives in Biology and Medicine</i> , <b>2000</b> , 43, 217-26	1.5	16
53	Cell attachment and neurite stability in NG108-15 cells: what is the role of microtubules?. <i>Developmental Brain Research</i> , <b>1991</b> , 58, 271-82		16
52	Evidence-based medicine, the essential role of systematic reviews, and the need for automated text mining tools <b>2010</b> ,		15
51	Positional specificity tests in co-cultures of retinal and tectal explants. <i>Brain Research</i> , <b>1981</b> , 213, 493-9	3.7	14
50	Two Similarity Metrics for Medical Subject Headings (MeSH): An Aid to Biomedical Text Mining and Author Name Disambiguation. <i>Journal of Biomedical Discovery and Collaboration</i> , <b>2016</b> , 7, e1		14
49	Guidelines for negotiating scientific collaboration. <i>PLoS Biology</i> , <b>2005</b> , 3, e217	9.7	13
48	The search for endogenous siRNAs in the mammalian brain. <i>Experimental Neurology</i> , <b>2012</b> , 235, 455-63	5.7	12

47	Coordinate enrichment of crinin (dystroglycan) subunits in synaptic membranes of sheep brain. <i>Brain Research</i> , <b>2000</b> , 887, 469-71	3.7	12
46	Acute neurite retraction elicited by diverse agents is prevented by genistein, a tyrosine kinase inhibitor. <i>Journal of Neurochemistry</i> , <b>1993</b> , 61, 340-3	6	12
45	Acute neurite retraction triggered by lysophosphatidic acid: timing of the inhibitory effects of genistein. <i>Brain Research</i> , <b>1994</b> , 660, 309-18	3.7	11
44	Cell attachment and neurite stability in NG108-15 cells: effects of 5'-deoxy, 5'-methyl thioadenosine (MTA) compared with laminin, kinase inhibitor H-7, and Mn <sup>2+</sup> ions. <i>Developmental Brain Research</i> , <b>1990</b> , 51, 153-60		11
43	Unsupervised low-dimensional vector representations for words, phrases and text that are transparent, scalable, and produce similarity metrics that are not redundant with neural embeddings. <i>Journal of Biomedical Informatics</i> , <b>2019</b> , 90, 103096	10.2	11
42	The Arrowsmith Project: 2005 Status Report. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 26-43	0.9	10
41	Mammalian Argonaute-DNA binding?. <i>Biology Direct</i> , <b>2014</b> , 10, 27	7.2	9
40	Three journal similarity metrics and their application to biomedical journals. <i>PLoS ONE</i> , <b>2014</b> , 9, e115681	3.7	9
39	Gaps within the Biomedical Literature: Initial Characterization and Assessment of Strategies for Discovery. <i>Frontiers in Research Metrics and Analytics</i> , <b>2017</b> , 2,	1.3	8
38	Altered cell shapes in fibroblasts treated with 5'-deoxy-5'-methylthioadenosine: relation to morphogenesis of neural cells. <i>Developmental Brain Research</i> , <b>1989</b> , 45, 59-67		8
37	Characterization of a novel set of membrane antigens associated with axonal growth. I. Biochemical and functional studies. <i>Developmental Brain Research</i> , <b>1992</b> , 69, 215-23		7
36	The Place of Literature-Based Discovery in Contemporary Scientific Practice. <i>Information Science and Knowledge Management</i> , <b>2008</b> , 13-22		7
35	Ketamine: A Neglected Therapy for Alzheimer Disease. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 186	5.3	6
34	Nuggets: findings shared in multiple clinical case reports. <i>Journal of the Medical Library Association: JMLA</i> , <b>2015</b> , 103, 171-6	1.4	6
33	Aggregator: a machine learning approach to identifying MEDLINE articles that derive from the same underlying clinical trial. <i>Methods</i> , <b>2015</b> , 74, 65-70	4.6	6
32	Characterization of a novel set of membrane antigens associated with axonal growth. II. Expression in the chick central nervous system. <i>Developmental Brain Research</i> , <b>1992</b> , 69, 225-31		6
31	Effect size, sample size and power of forced swim test assays in mice: Guidelines for investigators to optimize reproducibility. <i>PLoS ONE</i> , <b>2021</b> , 16, e0243668	3.7	5
30	A manual corpus of annotated main findings of clinical case reports. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2019</b> , 2019,	5	4

29	Evidence for binding of the ectodomain of amyloid precursor protein 695 and activated high molecular weight kininogen. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2002</b> , 1571, 225-38	4	4
28	Radiosensitivity and differentiation of ganglion cells within fetal mouse retinal explants in vitro. <i>Developmental Brain Research</i> , <b>1984</b> , 315, 159-63		4
27	Mining Clinical Case Reports to Identify New Lines of Investigation in Alzheimer's Disease: The Curious Case of DNase I. <i>Journal of Alzheimer's Disease Reports</i> , <b>2019</b> , 3, 71-76	3.3	3
26	How many scientists does it take to change a paradigm? New ideas to explain scientific observations are everywhere—we just need to learn how to see them. <i>EMBO Reports</i> , <b>2013</b> , 14, 861-5	6.5	3
25	Bath toys—a source of gastrointestinal infection. <i>New England Journal of Medicine</i> , <b>2004</b> , 350, 521	59.2	3
24	Identifying main finding sentences in clinical case reports. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2020</b> , 2020,	5	3
23	Information discovery from complementary literatures: Categorizing viruses as potential weapons <b>2001</b> , 52, 797		3
22	Biosynthesis of Glycosaminoglycans and Proteoglycans <b>1989</b> , 151-186		3
21	A Neglected Link Between the Psychoactive Effects of Dietary Ingredients and Consciousness-Altering Drugs. <i>Frontiers in Psychiatry</i> , <b>2019</b> , 10, 591	5	2
20	Preparing synaptoneurosomes from adult mouse forebrain. <i>Methods in Molecular Biology</i> , <b>2013</b> , 936, 173-9	1.4	2
19	Linking investigators. A centralized linking facility for data sharing and coordination of samples in tissue banks. <i>EMBO Reports</i> , <b>2003</b> , 4, 108-10	6.5	2
18	Characterization of novel set of membrane antigens associated with axonal growth. III: Expression in the regenerating goldfish optic nerve and tectum. <i>Developmental Brain Research</i> , <b>1992</b> , 69, 277-82		2
17	Monensin-sensitive cellular events modulate neurite extension on laminin: an example of higher-order regulation of cell motility. <i>Cytoskeleton</i> , <b>1993</b> , 24, 256-63		2
16	Design of a generic, open platform for machine learning-assisted indexing and clustering of articles in PubMed, a biomedical bibliographic database. <i>Data and Information Management</i> , <b>2018</b> , 2, 27-36	1.4	2
15	Anne O'Tate: Value-added PubMed search engine for analysis and text mining. <i>PLoS ONE</i> , <b>2021</b> , 16, e0248335	3.3	2
14	Distribution of Characteristic Terms in MEDLINE Literatures. <i>Information (Switzerland)</i> , <b>2011</b> , 2, 266-276	2.6	1
13	Erratum to publisher. <i>Journal of the Association for Information Science and Technology</i> , <b>2005</b> , 56, 1010-1010		1
12	The Citation Cloud of a Biomedical Article: Enabling Citation Analysis		1

11	Fifty Ways to Tag your Pubtypes: Multi-Tagger, a Set of Probabilistic Publication Type and Study Design Taggers to Support Biomedical Indexing and Evidence-Based Medicine		1
10	The Citation Cloud of a biomedical article: a free, public, web-based tool enabling citation analysis.. <i>Journal of the Medical Library Association: JMLA</i> , <b>2022</b> , 110, 103-108	1.4	0
9	New improved Aggregator: predicting which clinical trial articles derive from the same registered clinical trial. <i>JAMIA Open</i> , <b>2020</b> , 3, 338-341	2.9	0
8	Evaluation of publication type tagging as a strategy to screen randomized controlled trial articles in preparing systematic reviews.. <i>JAMIA Open</i> , <b>2022</b> , 5, ooac015	2.9	0
7	Predicting MeSH Beyond MEDLINE <b>2017</b> , 2017, 49-56		
6	Choosing a Research Problem <b>2017</b> , 17-30		
5	The Revolution in Scientific Publishing <b>2017</b> , 229-247		
4	Beyond (simple) reading: Strategies, discoveries, and collaborations. <i>Proceedings of the American Society for Information Science and Technology</i> , <b>2009</b> , 46, 1-6		
3	Conserved amphipathic helices near the N-terminus and C-terminus of the alpha subunit of cranin (dystroglycan). <i>Cell Adhesion and Communication</i> , <b>1998</b> , 6, 401-4		
2	Models of microRNA target coordination 221-226		
1	Literature-based discovery: New trends and techniques. Sponsored by SIG HCI. <i>Proceedings of the American Society for Information Science and Technology</i> , <b>2005</b> , 40, 497-497		