

Steven L Small

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.

150
papers

7,631
citations

48
h-index

84
g-index

161
ext. papers

8,602
ext. citations

4.7
avg, IF

6.07
L-index

#	Paper	IF	Citations
150	Action observation has a positive impact on rehabilitation of motor deficits after stroke. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T164-73	7.9	444
149	Fine modulation in network activation during motor execution and motor imagery. <i>Cerebral Cortex</i> , 2004 , 14, 1246-55	5.1	394
148	The role of segmentation in phonological processing: an fMRI investigation. <i>Journal of Cognitive Neuroscience</i> , 2000 , 12, 679-90	3.1	346
147	Hearing lips and seeing voices: how cortical areas supporting speech production mediate audiovisual speech perception. <i>Cerebral Cortex</i> , 2007 , 17, 2387-99	5.1	294
146	Listening to talking faces: motor cortical activation during speech perception. <i>NeuroImage</i> , 2005 , 25, 76-89	7.9	271
145	Escitalopram and problem-solving therapy for prevention of poststroke depression: a randomized controlled trial. <i>JAMA - Journal of the American Medical Association</i> , 2008 , 299, 2391-400	27.4	242
144	Functions of the mirror neuron system: implications for neurorehabilitation. <i>Cognitive and Behavioral Neurology</i> , 2006 , 19, 55-63	1.6	224
143	Speech-associated gestures, Broca's area, and the human mirror system. <i>Brain and Language</i> , 2007 , 101, 260-77	2.9	216
142	The mind of expert motor performance is cool and focused. <i>NeuroImage</i> , 2007 , 35, 804-13	7.9	207
141	Neurobiological roots of language in primate audition: common computational properties. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 142-50	14	173
140	Lateralization of motor circuits and handedness during finger movements. <i>European Journal of Neurology</i> , 2001 , 8, 425-34	6	167
139	Fragmentation and unpredictability of early-life experience in mental disorders. <i>American Journal of Psychiatry</i> , 2012 , 169, 907-15	11.9	162
138	Co-speech gestures influence neural activity in brain regions associated with processing semantic information. <i>Human Brain Mapping</i> , 2009 , 30, 3509-26	5.9	153
137	Somatotopy in human primary motor and somatosensory hand representations revisited. <i>Cerebral Cortex</i> , 2001 , 11, 312-21	5.1	152
136	Task-dependent organization of brain regions active during rest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10841-6	11.5	149
135	Sports experience changes the neural processing of action language. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13269-73	11.5	141
134	Immunosuppression-induced leukoencephalopathy from tacrolimus (FK506). <i>Annals of Neurology</i> , 1996 , 40, 575-80	9.4	111

133	Neural development of networks for audiovisual speech comprehension. <i>Brain and Language</i> , 2010 , 114, 101-14	2.9	101
132	Abstract coding of audiovisual speech: beyond sensory representation. <i>Neuron</i> , 2007 , 56, 1116-26	13.9	101
131	The interaction of social and emotional processes in the brain. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1818-29	3.1	101
130	The mirror neuron system and treatment of stroke. <i>Developmental Psychobiology</i> , 2012 , 54, 293-310	3	98
129	New evidence about language and cognitive development based on a longitudinal study: hypotheses for intervention. <i>American Psychologist</i> , 2014 , 69, 588-99	9.5	96
128	Gestures orchestrate brain networks for language understanding. <i>Current Biology</i> , 2009 , 19, 661-7	6.3	94
127	Different neural circuits subserve reading before and after therapy for acquired dyslexia. <i>Brain and Language</i> , 1998 , 62, 298-308	2.9	86
126	Distributed representations of semantic knowledge in the brain. <i>Brain</i> , 1995 , 118 (Pt 2), 441-53	11.2	84
125	On the context-dependent nature of the contribution of the ventral premotor cortex to speech perception. <i>NeuroImage</i> , 2011 , 57, 1561-71	7.9	80
124	Left hemisphere regions are critical for language in the face of early left focal brain injury. <i>Brain</i> , 2010 , 133, 1707-16	11.2	80
123	A core outcome set for aphasia treatment research: The ROMA consensus statement. <i>International Journal of Stroke</i> , 2019 , 14, 180-185	6.3	80
122	Requirements of functional imaging for future radiological systems. <i>Journal of Digital Imaging</i> , 1998 , 11, 201-202	5.3	78
121	NIMG-46. LONGITUDINAL RESTING-STATE FUNCTIONAL CONNECTIVITY CONFIRMS MARIZOMIB (MRZ) CROSSES THE BLOOD BRAIN BARRIER (BBB) AND CORRELATES WITH HALLUCINATION SEVERITY IN RECURRENT GBM PATIENTS. <i>Neuro-Oncology</i> , 2018 , 20, vi186-vi186	1	78
120	Neural bases of talker normalization. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1173-84	3.1	76
119	The anatomy of auditory word processing: individual variability. <i>Brain and Language</i> , 2001 , 77, 119-31	2.9	74
118	On the road to automatic: dynamic aspects in the development of expertise. <i>Journal of Clinical Neurophysiology</i> , 2004 , 21, 134-43	2.2	73
117	Cortical plasticity during three-week motor skill learning. <i>Journal of Clinical Neurophysiology</i> , 2004 , 21, 180-91	2.2	69
116	Brain networks subserving the extraction of sentence information and its encoding to memory. <i>Cerebral Cortex</i> , 2007 , 17, 2899-913	5.1	64

115	Pharmacotherapy of aphasia. A critical review. <i>Stroke</i> , 1994 , 25, 1282-9	6.7	63
114	Network activation during bimanual movements in humans. <i>NeuroImage</i> , 2008 , 43, 540-53	7.9	57
113	Pattern of olfactory bulb innervation returns after recovery from reversible peripheral deafferentation. <i>Journal of Comparative Neurology</i> , 2000 , 421, 362-373	3.4	57
112	TMS-induced modulation of action sentence priming in the ventral premotor cortex. <i>Neuropsychologia</i> , 2012 , 50, 319-26	3.2	55
111	Brain repair after stroke--a novel neurological model. <i>Nature Reviews Neurology</i> , 2013 , 9, 698-707	15	55
110	Gesture↯ Neural Language. <i>Frontiers in Psychology</i> , 2012 , 3, 99	3.4	55
109	Utility of EEG measures of brain function in patients with acute stroke. <i>Journal of Neurophysiology</i> , 2016 , 115, 2399-405	3.2	55
108	Frontal and temporal contributions to understanding the iconic co-speech gestures that accompany speech. <i>Human Brain Mapping</i> , 2014 , 35, 900-17	5.9	54
107	Imaging motor imagery: methodological issues related to expertise. <i>Methods</i> , 2008 , 45, 336-41	4.6	54
106	Repetition suppression for spoken sentences and the effect of task demands. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 2013-29	3.1	53
105	Behavioral and Pharmacological Treatment of Lexical-Semantic Deficits in a Single Patient With Primary Progressive Aphasia. <i>American Journal of Speech-Language Pathology</i> , 1995 , 4, 76-87	3.1	52
104	IMITATE: An intensive computer-based treatment for aphasia based on action observation and imitation. <i>Aphasiology</i> , 2010 , 24, 449-465	1.6	51
103	Brain function overlaps when people observe emblems, speech, and grasping. <i>Neuropsychologia</i> , 2013 , 51, 1619-29	3.2	48
102	The role of personal experience in the neural processing of action-related language. <i>Brain and Language</i> , 2010 , 112, 214-22	2.9	47
101	Imitation-based aphasia therapy increases narrative content: a case series. <i>Clinical Rehabilitation</i> , 2017 , 31, 1500-1507	3.3	45
100	Plastic changes following imitation-based speech and language therapy for aphasia: a high-density sleep EEG study. <i>Neurorehabilitation and Neural Repair</i> , 2014 , 28, 129-38	4.7	45
99	A double-blind, placebo-controlled study of pharmacological and behavioural treatment of lexical-semantic deficits in aphasia. <i>Aphasiology</i> , 1997 , 11, 385-400	1.6	45
98	Functional lateralization of the human premotor cortex during sequential movements. <i>Brain and Cognition</i> , 2002 , 49, 54-62	2.7	44

97	Gesture in the developing brain. <i>Developmental Science</i> , 2012 , 15, 165-80	4.5	42
96	Task-dependent changes in brain activation following therapy for nonfluent aphasia: discussion of two individual cases. <i>Journal of the International Neuropsychological Society</i> , 2006 , 12, 828-42	3.1	41
95	Dimensionality estimation for optimal detection of functional networks in BOLD fMRI data. <i>NeuroImage</i> , 2011 , 56, 531-43	7.9	39
94	From language comprehension to action understanding and back again. <i>Cerebral Cortex</i> , 2011 , 21, 1166-77	3.7	39
93	Functional neuroanatomy of segmenting speech and nonspeech. <i>Cortex</i> , 2006 , 42, 644-51	3.8	39
92	Localizing the lexicon for reading aloud: replication of a PET study using fMRI. <i>NeuroReport</i> , 1996 , 7, 961-5	5.7	39
91	Functional restoration for the stroke survivor: informing the efforts of engineers. <i>Topics in Stroke Rehabilitation</i> , 2008 , 15, 521-41	2.6	38
90	Increased Modularity of Resting State Networks Supports Improved Narrative Production in Aphasia Recovery. <i>Brain Connectivity</i> , 2016 , 6, 524-9	2.7	36
89	Motor response selection in overt sentence production: a functional MRI study. <i>Frontiers in Psychology</i> , 2011 , 2, 253	3.4	33
88	Epidural cortical stimulation as adjunctive treatment for non-fluent aphasia: preliminary findings. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010 , 81, 1014-21	5.5	33
87	Comparing classification methods for longitudinal fMRI studies. <i>Neural Computation</i> , 2010 , 22, 2729-62	2.9	32
86	On the neurobiological investigation of language understanding in context. <i>Brain and Language</i> , 2004 , 89, 300-11	2.9	32
85	A model of ocular dominance column development by competition for trophic factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 9944-9	11.5	31
84	Improving the analysis, storage and sharing of neuroimaging data using relational databases and distributed computing. <i>NeuroImage</i> , 2008 , 39, 693-706	7.9	30
83	Biological approaches to aphasia treatment. <i>Current Neurology and Neuroscience Reports</i> , 2009 , 9, 443-50	6.6	29
82	Lending a helping hand to hearing: another motor theory of speech perception	250-286	29
81	Suppression of vascular artifacts in functional magnetic resonance images using MR angiograms. <i>NeuroImage</i> , 1998 , 7, 224-31	7.9	27
80	Test-retest reliability in fMRI of language: group and task effects. <i>Brain and Language</i> , 2007 , 102, 176-85	2.9	27

79	Interpretation-mediated changes in neural activity during language comprehension. <i>NeuroImage</i> , 2011 , 55, 1314-23	7.9	26
78	Functional and structural aging of the speech sensorimotor neural system: functional magnetic resonance imaging evidence. <i>Neurobiology of Aging</i> , 2013 , 34, 1935-51	5.6	25
77	Prevention of post-stroke generalized anxiety disorder, using escitalopram or problem-solving therapy. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2014 , 26, 323-8	2.7	25
76	Prevention of poststroke apathy using escitalopram or problem-solving therapy. <i>American Journal of Geriatric Psychiatry</i> , 2013 , 21, 855-62	6.5	24
75	A network model of observation and imitation of speech. <i>Frontiers in Psychology</i> , 2012 , 3, 84	3.4	24
74	Increased frequency of first-episode poststroke depression after discontinuation of escitalopram. <i>Stroke</i> , 2011 , 42, 3281-3	6.7	24
73	Computational modeling of resting-state activity demonstrates markers of normalcy in children with prenatal or perinatal stroke. <i>Journal of Neuroscience</i> , 2015 , 35, 8914-24	6.6	22
72	The neostriatum and response selection in overt sentence production: an fMRI study. <i>NeuroImage</i> , 2013 , 82, 53-60	7.9	21
71	Interhemispheric functional connectivity following prenatal or perinatal brain injury predicts receptive language outcome. <i>Journal of Neuroscience</i> , 2013 , 33, 5612-25	6.6	21
70	Effects of training multiple form classes on acquisition, generalization and maintenance of word retrieval in a single subject. <i>Aphasiology</i> , 1998 , 12, 575-585	1.6	21
69	Rule-based treatment for acquired phonological dyslexia. <i>Aphasiology</i> , 1998 , 12, 587-600	1.6	21
68	The Epidemiology of Sports-Related Head Injury and Concussion in Water Polo. <i>Frontiers in Neurology</i> , 2016 , 7, 98	4.1	21
67	Functional magnetic resonance imaging studies of language. <i>Current Neurology and Neuroscience Reports</i> , 2002 , 2, 505-10	6.6	19
66	Performance Variability as a Predictor of Response to Aphasia Treatment. <i>Neurorehabilitation and Neural Repair</i> , 2016 , 30, 876-82	4.7	19
65	Epidural cortical stimulation and aphasia therapy. <i>Aphasiology</i> , 2012 , 26, 1192-1217	1.6	18
64	A biological model of aphasia rehabilitation: Pharmacological perspectives. <i>Aphasiology</i> , 2004 , 18, 473-492		18
63	The Neurobiology of Language 2016 , 3-9		16
62	fMRI methods for studying the neurobiology of language under naturalistic conditions		15

61	Preoperative cortical localization with functional MRI for use in stereotactic radiosurgery. <i>Stereotactic and Functional Neurosurgery</i> , 1996 , 66, 24-9	1.6	15
60	Repeated movie viewings produce similar local activity patterns but different network configurations. <i>NeuroImage</i> , 2016 , 142, 613-627	7.9	15
59	Changes in dynamic resting state network connectivity following aphasia therapy. <i>Brain Imaging and Behavior</i> , 2018 , 12, 1141-1149	4.1	14
58	The neurobiology of language: Relevance to linguistics. <i>Yearbook of the Poznan Linguistic Meeting</i> , 2016 , 2, 49-66	0.3	14
57	Functional neuroanatomy of gesture-speech integration in children varies with individual differences in gesture processing. <i>Developmental Science</i> , 2018 , 21, e12648	4.5	13
56	Cross-linguistic variation in the neurophysiological response to semantic processing: evidence from anomalies at the borderline of awareness. <i>Neuropsychologia</i> , 2014 , 56, 147-66	3.2	13
55	Changes in the amplitude and timing of the hemodynamic response associated with prepulse inhibition of acoustic startle. <i>NeuroImage</i> , 2006 , 32, 1375-84	7.9	12
54	The future of aphasia treatment. <i>Brain and Language</i> , 2000 , 71, 227-32	2.9	12
53	Accelerating medical research using the swift workflow system. <i>Studies in Health Technology and Informatics</i> , 2007 , 126, 207-16	0.5	12
52	Head impacts sustained by male collegiate water polo athletes. <i>PLoS ONE</i> , 2019 , 14, e0216369	3.7	11
51	The pace of vocabulary growth during preschool predicts cortical structure at school age. <i>Neuropsychologia</i> , 2017 , 98, 13-23	3.2	11
50	Subcortical aphasia and the problem of attributing functional responsibility to parts of distributed brain processes. <i>Brain and Language</i> , 1997 , 58, 427-35; discussion 436-58	2.9	11
49	Network specialization during adolescence: Hippocampal effective connectivity in boys and girls. <i>NeuroImage</i> , 2018 , 175, 402-412	7.9	10
48	Parallel workflows for data-driven structural equation modeling in functional neuroimaging. <i>Frontiers in Neuroinformatics</i> , 2009 , 3, 34	3.9	10
47	Response to Skeide and Friederici: the myth of the uniquely human direct dorsal pathway. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 484-5	14	8
46	Complex motor function in humans: validating and extending the postulates of Alexandr R. Luria. <i>Cognitive and Behavioral Neurology</i> , 2006 , 19, 11-20	1.6	8
45	A model of ocular dominance column development by competition for trophic factor: effects of excess trophic factor with monocular deprivation and effects of antagonist of trophic factor. <i>Journal of Computational Neuroscience</i> , 2000 , 8, 227-50	1.4	8
44	Aberrant Maturation of the Uncinate Fasciculus Follows Exposure to Unpredictable Patterns of Maternal Signals. <i>Journal of Neuroscience</i> , 2021 , 41, 1242-1250	6.6	8

43	Structural correlates of spoken language abilities: A surface-based region-of interest morphometry study. <i>Brain and Language</i> , 2015 , 149, 46-54	2.9	7
42	Therapy-Induced Plasticity in Chronic Aphasia Is Associated with Behavioral Improvement and Time Since Stroke. <i>Brain Connectivity</i> , 2018 , 8, 179-188	2.7	7
41	Resistant Hypertension after Hypertensive Intracerebral Hemorrhage Is Associated with More Medical Interventions and Longer Hospital Stays without Affecting Outcome. <i>Frontiers in Neurology</i> , 2017 , 8, 184	4.1	7
40	Database-managed grid-enabled analysis of neuroimaging data: the CNARI framework. <i>International Journal of Psychophysiology</i> , 2009 , 73, 62-72	2.9	7
39	Language development and brain reorganization in a child born without the left hemisphere. <i>Cortex</i> , 2020 , 127, 290-312	3.8	6
38	A Dose Relationship Between Brain Functional Connectivity and Cumulative Head Impact Exposure in Collegiate Water Polo Players. <i>Frontiers in Neurology</i> , 2020 , 11, 218	4.1	5
37	A Biological basis for Aphasia Treatment: Mirror Neurons and Observation-Execution Matching. <i>Poznan Studies in Contemporary Linguistics</i> , 2009 , 45,	0.6	5
36	Functional Magnetic Resonance Imaging (fMRI) Research of Language 2008 , 81-89		5
35	Sentence understanding depends on contextual use of semantic and real world knowledge. <i>NeuroImage</i> , 2016 , 136, 10-25	7.9	5
34	Patterns of head impact exposure in men's and women's collegiate club water polo. <i>Journal of Science and Medicine in Sport</i> , 2020 , 23, 927-931	4.4	5
33	Consonant accuracy after severe pediatric traumatic brain injury: a prospective cohort study. <i>Journal of Speech, Language, and Hearing Research</i> , 2013 , 56, 1023-34	2.8	4
32	Review : The Neurobiology of Stroke Rehabilitation. <i>Neuroscientist</i> , 1998 , 4, 426-434	7.6	4
31	Connectionist networks and language disorders. <i>Journal of Communication Disorders</i> , 1994 , 27, 305-23	1.9	4
30	Imaging Brain Networks for Language: Methodology and Examples from the Neurobiology of Reading 2016 , 805-814		4
29	Pharmacotherapy for Aphasia 2016 , 1067-1083		4
28	Semantic category imprecision: a connectionist study of the boundaries of word meanings. <i>Brain and Language</i> , 1997 , 57, 181-94	2.9	3
27	Perinatal Focal Brain Injury 2016 , 969-983		2
26	Laboratory evaluation of a wearable head impact sensor for use in water polo and land sports. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2020 , 234, 162-169	0.7	2

25	Implementation is crucial but must be neurobiologically grounded. Comment on "Toward a computational framework for cognitive biology: unifying approaches from cognitive neuroscience and comparative cognition" by W. Tecumseh Fitch. <i>Physics of Life Reviews</i> , 2014 , 11, 365-6	2.1	2
24	T1422: Functional MRI (fMRI) Comparison Between Novice and Expert Endoscopists: Are We All Wired the Same?. <i>Gastrointestinal Endoscopy</i> , 2010 , 71, AB273	5.2	2
23	AN INTRODUCTION TO FUNCTIONAL MAGNETIC RESONANCE IMAGING. <i>Neurologist</i> , 1999 , 5, 145-158	1.6	2
22	Heuristic determination of relevant diagnostic procedures in a medical expert system for gynecology. <i>American Journal of Obstetrics and Gynecology</i> , 1989 , 161, 17-24	6.4	2
21	Distributed Representations of Semantic Knowledge in the Brain: Computational Experiments using Feature Based Codes. <i>Progress in Neural Processing</i> , 1996 , 109-132		2
20	A Review of Biological Interventions in Chronic Aphasia. <i>Annals of Indian Academy of Neurology</i> , 2020 , 23, S82-S94	0.9	2
19	New insights into the neurobiology of language from functional brain imaging 2011 , 131-143		2
18	Word Expert Parsing Revisited in a Cognitive Science Perspective 1988 , 13-43		2
17	One season of head-to-ball impact exposure alters functional connectivity in a central autonomic network. <i>NeuroImage</i> , 2020 , 223, 117306	7.9	2
16	Head impact exposure and concussion in women's collegiate club lacrosse. <i>Research in Sports Medicine</i> , 2021 , 1-6	3.8	2
15	Imitation-Based Aphasia Therapy 2016 , 1055-1065		2
14	Language Processing, Functional Magnetic Resonance Imaging of 2015 , 368-380		1
13	Functional imaging of putative human mirror neuron systems in neurological disease. <i>Experimental Neurology</i> , 2010 , 221, 5-9	5.7	1
12	But how does the brain think? (or wasn't that the question?). <i>Behavioral and Brain Sciences</i> , 1991 , 14, 504-505	0.9	1
11	Separating Stimulus-Induced and Background Components of Dynamic Functional Connectivity in Naturalistic fMRI.. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	1
10	Aphasia Treatment at the Crossroads: A Biological Perspective. <i>ASHA Leader</i> , 2004 , 9, 6-18	0.5	1
9	A Semantic Cross-Species Derived Data Management Application. <i>Data Science Journal</i> , 2017 , 16, 45	2	1
8	Parent Language Input Prior to School Forecasts Change in Children's Language-Related Cortical Structures During Mid-Adolescence. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 650152	3.3	1

7	Motor and Nonmotor Language Representations in the Brain	276-293		1
6	Salivary S100 calcium-binding protein beta (S100B) and neurofilament light (NFL) after acute exposure to repeated head impacts in collegiate water polo players..	<i>Scientific Reports</i> , 2022 , 12, 3439	4.9	1
5	Images in neurology. Functional magnetic resonance imaging localization of motor function.	<i>Archives of Neurology</i> , 2000 , 57, 749		0
4	The First Neurobiology of Language Conference: NLC 2009.	<i>Brain and Language</i> , 2011 , 117, 101-2	2.9	
3	The real functional architecture is gray, wet and slippery.	<i>Behavioral and Brain Sciences</i> , 1994 , 17, 81-82	0.9	
2	The story in mind and in matter.	<i>Behavioral and Brain Sciences</i> , 1983 , 6, 609	0.9	
1	Identifiable Patterns of Trait, State, and Experience in Chronic Stroke Recovery.	<i>Neurorehabilitation and Neural Repair</i> , 2021 , 35, 158-168	4.7	