Abraham Z Snyder

List of Publications by Year
in descending order

150 papers	46,620 citations	13099 68 h-index	8866 145 g-index
175 all docs	175 docs citations	175 times ranked	31464 citing authors

#	Article	IF	Citations
1	The human brain is intrinsically organized into dynamic, anticorrelated functional networks. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9673-9678.	7.1	7,496
2	Spurious but systematic correlations in functional connectivity MRI networks arise from subject motion. NeuroImage, 2012, 59, 2142-2154.	4.2	6,516
3	Methods to detect, characterize, and remove motion artifact in resting state fMRI. NeuroImage, 2014, 84, 320-341.	4.2	2,881
4	Distinct brain networks for adaptive and stable task control in humans. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11073-11078.	7.1	2,290
5	A default mode of brain function: A brief history of an evolving idea. NeuroImage, 2007, 37, 1083-1090.	4.2	1,887
6	Spontaneous neuronal activity distinguishes human dorsal and ventral attention systems. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10046-10051.	7.1	1,843
7	The Global Signal and Observed Anticorrelated Resting State Brain Networks. Journal of Neurophysiology, 2009, 101, 3270-3283.	1.8	1,732
8	Resting-state fMRI in the Human Connectome Project. NeuroImage, 2013, 80, 144-168.	4.2	1,367
9	A unified approach for morphometric and functional data analysis in young, old, and demented adults using automated atlas-based head size normalization: reliability and validation against manual measurement of total intracranial volume. NeuroImage, 2004, 23, 724-738.	4.2	1,105
10	Precision Functional Mapping of Individual Human Brains. Neuron, 2017, 95, 791-807.e7.	8.1	948
11	Breakdown of Functional Connectivity in Frontoparietal Networks Underlies Behavioral Deficits in Spatial Neglect. Neuron, 2007, 53, 905-918.	8.1	851
12	The Temporal Structures and Functional Significance of Scale-free Brain Activity. Neuron, 2010, 66, 353-369.	8.1	831
13	Functional System and Areal Organization of a Highly Sampled Individual Human Brain. Neuron, 2015, 87, 657-670.	8.1	785
14	Neural basis and recovery of spatial attention deficits in spatial neglect. Nature Neuroscience, 2005, 8, 1603-1610.	14.8	765
15	Functional deactivations: Change with age and dementia of the Alzheimer type. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14504-14509.	7.1	674
16	Functional Brain Networks Are Dominated by Stable Group and Individual Factors, Not Cognitive or Daily Variation. Neuron, 2018, 98, 439-452.e5.	8.1	665
17	Electrophysiological correlates of the brain's intrinsic large-scale functional architecture. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16039-16044.	7.1	627
18	Anatomic Localization and Quantitative Analysis of Gradient Refocused Echo-Planar fMRI Susceptibility Artifacts. NeuroImage, 1997, 6, 156-167.	4.2	624

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19	Detection of Blast-Related Traumatic Brain Injury in U.S. Military Personnel. New England Journal of Medicine, 2011, 364, 2091-2100.	27.0	553
20	Disruptions of network connectivity predict impairment in multiple behavioral domains after stroke. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4367-76.	7.1	477
21	Human brain activity time-locked to perceptual event boundaries. Nature Neuroscience, 2001, 4, 651-655.	14.8	462
22	Mapping distributed brain function and networks with diffuse optical tomography. Nature Photonics, 2014, 8, 448-454.	31.4	459
23	Right Hemisphere Dominance during Spatial Selective Attention and Target Detection Occurs Outside the Dorsal Frontoparietal Network. Journal of Neuroscience, 2010, 30, 3640-3651.	3.6	445
24	Distinct Cortical Anatomy Linked to Subregions of the Medial Temporal Lobe Revealed by Intrinsic Functional Connectivity. Journal of Neurophysiology, 2008, 100, 129-139.	1.8	432
25	On the Stability of BOLD fMRI Correlations. Cerebral Cortex, 2017, 27, 4719-4732.	2.9	403
26	Resting state functional connectivity of the striatum in Parkinsonâ€™s disease. Brain, 2012, 135, 3699-3711.	7.6	368
27	Long-term neural and physiological phenotyping of a single human. Nature Communications, 2015, 6, 8885.	12.8	353
28	Noninvasive Functional and Structural Connectivity Mapping of the Human Thalamocortical System. Cerebral Cortex, 2010, 20, 1187-1194.	2.9	327
29	Aerobic Glycolysis in the Human Brain Is Associated with Development and Neotenous Gene Expression. Cell Metabolism, 2014, 19, 49-57.	16.2	305
30	Blood flow changes in human somatosensory cortex during anticipated stimulation. Nature, 1995, 373, 249-252.	27.8	294
31	Loss of Resting Interhemispheric Functional Connectivity after Complete Section of the Corpus Callosum. Journal of Neuroscience, 2008, 28, 6453-6458.	3.6	268
32	Data Quality Influences Observed Links Between Functional Connectivity and Behavior. Cerebral Cortex, 2017, 27, 4492-4502.	2.9	246
33	Interpreting temporal fluctuations in resting-state functional connectivity MRI. NeuroImage, 2017, 163, 437-455.	4.2	234
34	Resting state network estimation in individual subjects. NeuroImage, 2013, 82, 616-633.	4.2	226
35	Real-time motion analytics during brain MRI improve data quality and reduce costs. NeuroImage, 2017, 161, 80-93.	4.2	221
36	Imaging of Functional Connectivity in the Mouse Brain. PLoS ONE, 2011, 6, e16322.	2.5	217

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37	Spatial and Temporal Organization of the Individual Human Cerebellum. Neuron, 2018, 100, 977-993.e7.	8.1	201
38	A brief history of the resting state: The Washington University perspective. NeuroImage, 2012, 62, 902-910.	4.2	197
39	Partial volume correction in quantitative amyloid imaging. NeuroImage, 2015, 107, 55-64.	4.2	188
40	On the role of the corpus callosum in interhemispheric functional connectivity in humans. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13278-13283.	7.1	176
41	Lag threads organize the brainâ€™s intrinsic activity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2235-44.	7.1	168
42	The Emotional Modulation of Cognitive Processing: An fMRI Study. Journal of Cognitive Neuroscience, 2000, 12, 157-170.	2.3	167
43	Clustering of Resting State Networks. PLoS ONE, 2012, 7, e40370.	2.5	162
44	Correction of respiratory artifacts in MRI head motion estimates. NeuroImage, 2020, 208, 116400.	4.2	161
45	Large-scale changes in network interactions as a physiological signature of spatial neglect. Brain, 2014, 137, 3267-3283.	7.6	159
46	Spontaneous Infra-slow Brain Activity Has Unique Spatiotemporal Dynamics and Laminar Structure. Neuron, 2018, 98, 297-305.e6.	8.1	152
47	Integrative and Network-Specific Connectivity of the Basal Ganglia and Thalamus Defined in Individuals. Neuron, 2020, 105, 742-758.e6.	8.1	148
48	Resting-State Network Complexity and Magnitude Are Reduced in Prematurely Born Infants. Cerebral Cortex, 2016, 26, 322-333.	2.9	145
49	Optical imaging of disrupted functional connectivity following ischemic stroke in mice. NeuroImage, 2014, 99, 388-401.	4.2	142
50	Hierarchical dynamics as a macroscopic organizing principle of the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20890-20897.	7.1	139
51	Resting-state activity in development and maintenance of normal brain function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11638-11643.	7.1	137
52	A Novel Data-Driven Approach to Preoperative Mapping of Functional Cortex Using Resting-State Functional Magnetic Resonance Imaging. Neurosurgery, 2013, 73, 969-983.	1.1	126
53	Frequency-specific electrophysiologic correlates of resting state fMRI networks. NeuroImage, 2017, 149, 446-457.	4.2	118
54	Functional MRI studies of word-stem completion: Reliability across laboratories and comparison to blood flow imaging with PET. Human Brain Mapping, 1998, 6, 203-215.	3.6	116

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55	Plasticity and Spontaneous Activity Pulses in Disused Human Brain Circuits. Neuron, 2020, 107, 580-589.e6.	8.1	114
56	Default-mode network streams for coupling to language and control systems. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17308-17319.	7.1	113
57	Functional Connectivity in Autosomal Dominant and Late-Onset Alzheimer Disease. JAMA Neurology, 2014, 71, 1111.	9.0	112
58	Impaired and facilitated functional networks in temporal lobe epilepsy. NeuroImage: Clinical, 2013, 2, 862-872.	2.7	111
59	Prediction of brain maturity in infants using machine-learning algorithms. NeuroImage, 2016, 136, 1-9.	4.2	111
60	Global waves synchronize the brainâ€™s functional systems with fluctuating arousal. Science Advances, 2021, 7, .	10.3	110
61	Transient BOLD responses at block transitions. NeuroImage, 2005, 28, 956-966.	4.2	109
62	Propagated infra-slow intrinsic brain activity reorganizes across wake and slow wave sleep. ELife, 2015, 4, .	6.0	104
63	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. Cerebral Cortex, 2017, 27, 1709-1720.	2.9	103
64	The effects of hemodynamic lag on functional connectivity and behavior after stroke. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2162-2176.	4.3	101
65	Human corticalâ€“hippocampal dialogue in wake and slow-wave sleep. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6868-E6876.	7.1	98
66	Registration of [18F]FDG microPET and small-animal MRI. Nuclear Medicine and Biology, 2005, 32, 567-572.	0.6	97
67	Individual-specific functional connectivity of the amygdala: A substrate for precision psychiatry. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3808-3818.	7.1	96
68	Resting-state Functional Magnetic Resonance Imaging Correlates of Sevoflurane-induced Unconsciousness. Anesthesiology, 2015, 123, 346-356.	2.5	95
69	Functional connectivity structure of cortical calcium dynamics in anesthetized and awake mice. PLoS ONE, 2017, 12, e0185759.	2.5	93
70	Dissociated functional connectivity profiles for motor and attention deficits in acute right-hemisphere stroke. Brain, 2016, 139, 2024-2038.	7.6	91
71	Resting state functional connectivity in early blind humans. Frontiers in Systems Neuroscience, 2014, 8, 51.	2.5	84
72	Comment on â€œModafinil Shifts Human Locus Coeruleus to Low-Tonic, High-Phasic Activity During Functional MRIâ€•and â€œHomeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Areaâ€• Science, 2010, 328, 309-309.	12.6	66

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73	Removal of high frequency contamination from motion estimates in single-band fMRI saves data without biasing functional connectivity. NeuroImage, 2020, 217, 116866.	4.2	62
74	Functional connectivity arises from a slow rhythmic mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2527-35.	7.1	57
75	Emergent Functional Network Effects in Parkinson Disease. Cerebral Cortex, 2019, 29, 2509-2523.	2.9	56
76	Integration of resting state functional MRI into clinical practice - A large single institution experience. PLoS ONE, 2018, 13, e0198349.	2.5	54
77	The State of Resting State Networks. Topics in Magnetic Resonance Imaging, 2019, 28, 189-196.	1.2	54
78	Resting-state Functional Magnetic Resonance Imaging in Presurgical Functional Mapping. Neuroimaging Clinics of North America, 2017, 27, 621-633.	1.0	53
79	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 50-61.	1.5	53
80	Unrecognized preclinical Alzheimer disease confounds rs-fcMRI studies of normal aging. Neurology, 2014, 83, 1613-1619.	1.1	51
81	CSF proteins and resting-state functional connectivity in Parkinson disease. Neurology, 2015, 84, 2413-2421.	1.1	51
82	Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. PLoS ONE, 2017, 12, e0188122.	2.5	51
83	Organization of Propagated Intrinsic Brain Activity in Individual Humans. Cerebral Cortex, 2020, 30, 1716-1734.	2.9	48
84	Quantitative assessments of traumatic axonal injury in human brain: concordance of microdialysis and advanced MRI. Brain, 2015, 138, 2263-2277.	7.6	45
85	Quantitative Amyloid Imaging in Autosomal Dominant Alzheimerâ€™s Disease: Results from the DIAN Study Group. PLoS ONE, 2016, 11, e0152082.	2.5	45
86	Brain activity is not only for thinking. Current Opinion in Behavioral Sciences, 2021, 40, 130-136.	3.9	45
87	Oxygen Level and LFP in Task-Positive and Task-Negative Areas: Bridging BOLD fMRI and Electrophysiology. Cerebral Cortex, 2016, 26, 346-357.	2.9	41
88	Global motion detection and censoring in highâ€density diffuse optical tomography. Human Brain Mapping, 2020, 41, 4093-4112.	3.6	41
89	The Lag Structure of Intrinsic Activity is Focally Altered in High Functioning Adults with Autism. Cerebral Cortex, 2015, 27, 1083-1093.	2.9	40
90	Partial covariance based functional connectivity computation using Ledoitâ€“Wolf covariance regularization. NeuroImage, 2015, 121, 29-38.	4.2	39

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91	On time delay estimation and sampling error in resting-state fMRI. NeuroImage, 2019, 194, 211-227.	4.2	39
92	Effective Connectivity Measured Using Optogenetically Evoked Hemodynamic Signals Exhibits Topography Distinct from Resting State Functional Connectivity in the Mouse. Cerebral Cortex, 2018, 28, 370-386.	2.9	38
93	Functional connectivity within glioblastoma impacts overall survival. Neuro-Oncology, 2021, 23, 412-421.	1.2	36
94	Separability of calcium slow waves and functional connectivity during wake, sleep, and anesthesia. Neurophotonics, 2019, 6, 1.	3.3	31
95	Quantitative Amyloid Imaging Using Image-Derived Arterial Input Function. PLoS ONE, 2015, 10, e0122920.	2.5	30
96	Cognitive correlates of cerebellar resting-state functional connectivity in Parkinson disease. Neurology, 2020, 94, e384-e396.	1.1	30
97	Mapping language function with task-based vs. resting-state functional MRI. PLoS ONE, 2020, 15, e0236423.	2.5	29
98	Restingâ€€State Functional Connectivity Predicts <scp>STN DBS</scp> Clinical Response. Movement Disorders, 2021, 36, 662-671.	3.9	28
99	Cingulo-opercular control network and disused motor circuits joined in standby mode. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
100	Proteinopathy and longitudinal changes in functional connectivity networks in Parkinson disease. Neurology, 2020, 94, e718-e728.	1.1	26
101	Resting-State Blood Oxygen Level-Dependent Functional MRI: A Paradigm Shift in Preoperative Brain Mapping. Stereotactic and Functional Neurosurgery, 2015, 93, 427-439.	1.5	25
102	Regional, not global, functional connectivity contributes to isolated focal dystonia. Neurology, 2020, 95, e2246-e2258.	1.1	23
103	Opposed hemodynamic responses following increased excitation and parvalbumin-based inhibition. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 841-856.	4.3	23
104	Resting state signal latency predicts laterality in pediatric medically refractory temporal lobe epilepsy. Child's Nervous System, 2018, 34, 901-910.	1.1	22
105	Cerebellar Functional Connectivity in Term- and Very Preterm-Born Infants. Cerebral Cortex, 2019, 29, 1174-1184.	2.9	22
106	A Method for Reducing the Effects of Motion Contamination in Arterial Spin Labeling Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1697-1702.	4.3	21
107	N-methyl-D-aspartate receptor encephalitis mediates loss of intrinsic activity measured by functional MRI. Journal of Neurology, 2016, 263, 1083-1091.	3.6	21
108	Eye position modulates retinotopic responses in early visual areas: a bias for the straight-ahead direction. Brain Structure and Function, 2015, 220, 2587-2601.	2.3	20

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109	Local Perturbations of Cortical Excitability Propagate Differentially Through Large-Scale Functional Networks. Cerebral Cortex, 2020, 30, 3352-3369.	2.9	20
110	Individualized Functional Subnetworks Connect Human Striatum and Frontal Cortex. Cerebral Cortex, 2022, 32, 2868-2884.	2.9	20
111	Dynamic susceptibility contrast MRI with localized arterial input functions. Magnetic Resonance in Medicine, 2010, 63, 1305-1314.	3.0	19
112	Quantitative hemodynamic PET imaging using image-derived arterial input function and a PET/MR hybrid scanner. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1435-1446.	4.3	19
113	Aging and the encoding of changes in events: The role of neural activity pattern reinstatement. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29346-29353.	7.1	18
114	Adaptive smoothing based on Gaussian processes regression increases the sensitivity and specificity of fMRI data. Human Brain Mapping, 2017, 38, 1438-1459.	3.6	17
115	A comparison of resting state functional magnetic resonance imaging to invasive electrocortical stimulation for sensorimotor mapping in pediatric patients. NeuroImage: Clinical, 2019, 23, 101850.	2.7	17
116	Spatial Reorganization of Putaminal Dopamine D2-Like Receptors in Cranial and Hand Dystonia. PLoS ONE, 2014, 9, e88121.	2.5	17
117	Brain network reorganisation in an adolescent after bilateral perinatal strokes. Lancet Neurology, The, 2021, 20, 255-256.	10.2	16
118	Validation of diffusion tensor imaging measures of nigrostriatal neurons in macaques. PLoS ONE, 2018, 13, e0202201.	2.5	15
119	Severe hippocampal atrophy is not associated with depression in temporal lobe epilepsy. Epilepsy and Behavior, 2014, 34, 9-14.	1.7	14
120	Resting-State Blood Oxygen Levelâ€“Dependent Functional Magnetic Resonance Imaging for Presurgical Planning. Neuroimaging Clinics of North America, 2014, 24, 655-669.	1.0	14
121	Visual experience sculpts whole-cortex spontaneous infraslow activity patterns through an Arc-dependent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9952-E9961.	7.1	13
122	A systematic meta-analysis of oxygen-to-glucose and oxygen-to-carbohydrate ratios in the resting human brain. PLoS ONE, 2018, 13, e0204242.	2.5	13
123	Quantitative positron emission tomography reveals regional differences in aerobic glycolysis within the human brain. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2096-2102.	4.3	13
124	Mindfulness, Education, and Exercise for age-related cognitive decline: Study protocol, pilot study results, and description of the baseline sample. Clinical Trials, 2020, 17, 581-594.	1.6	13
125	Functional Connectivity of Vermis Correlates with Future Gait Impairments in Parkinson's Disease. Movement Disorders, 2021, 36, 2559-2568.	3.9	13
126	7T MRI subthalamic nucleus atlas for use with 3T MRI. Journal of Medical Imaging, 2018, 5, 1.	1.5	13

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127	Accuracy and reliability of diffusion imaging models. NeuroImage, 2022, 254, 119138.	4.2	13
128	Little Change in Functional Brain Networks Following Acute Levodopa in Drugâ€NaÃ¨ve Parkinson's Disease. Movement Disorders, 2020, 35, 499-503.	3.9	12
129	Mapping Structure-Function Relationships in theÂBrain. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 510-521.	1.5	11
130	Electrically coupled inhibitory interneurons constrain long-range connectivity of cortical networks. NeuroImage, 2020, 215, 116810.	4.2	11
131	Prolonged ketamine infusion modulates limbic connectivity and induces sustained remission of treatment-resistant depression. Psychopharmacology, 2021, 238, 1157-1169.	3.1	9
132	Quantitative signal properties from standardized MRIs correlate with multiple sclerosis disability. Annals of Clinical and Translational Neurology, 2021, 8, 1096-1109.	3.7	8
133	Mapping of the Language Network With Deep Learning. Frontiers in Neurology, 2020, 11, 819.	2.4	7
134	Heterogeneous Optimization Framework: Reproducible Preprocessing of Multi-Spectral Clinical MRI for Neuro-Oncology Imaging Research. Neuroinformatics, 2016, 14, 305-317.	2.8	6
135	ESM-CT: a precise method for localization of DBS electrodes in CT images. Journal of Neuroscience Methods, 2018, 308, 366-376.	2.5	6
136	Uncoupling in intrinsic brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	5
137	Probabilistic flow in brain-wide activity. NeuroImage, 2020, 223, 117321.	4.2	4
138	Peripheral sensory stimulation elicits global slow waves by recruiting somatosensory cortex bilaterally. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
139	Intrinsic Brain Activity and Resting State Networks. , 2016, , 1625-1676.		4
140	Covariance and Correlation Analysis of Resting State Functional Magnetic Resonance Imaging Data Acquired in a Clinical Trial of Mindfulness-Based Stress Reduction and Exercise in Older Individuals. Frontiers in Neuroscience, 2022, 16, 825547.	2.8	4
141	Heterogeneity of Apparent Diffusion Coefficients Within Infarcts. Stroke, 2001, 32, 1695-1696.	2.0	3
142	Spatial and Temporal Organization of the Individual Human Cerebellum. SSRN Electronic Journal, 0, , .	0.4	2
143	Tissue damage detected by quantitative gradient echo MRI correlates with clinical progression in non-relapsing progressive MS. Multiple Sclerosis Journal, 2022, 28, 1515-1525.	3.0	2
144	Spatiotemporal Structures of Time Lags in the Brain as Revealed by Magnetoencephalography. , 2019, , .		1

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145	Mapping deep brain stimulationâ€™s impact on cortical networks using high-density diffuse optical tomography (Conference Presentation). , 2020, , .		1
146	Imaging Across Scale: the Promise of Multi-modal Imaging. , 2006, , .		0
147	Cognitive Brain Network Correlates of Everyday Memory in People with Parkinson Disease. Archives of Physical Medicine and Rehabilitation, 2019, 100, e17-e18.	0.9	0
148	Corrigendum to: Local Perturbations of Cortical Excitability Propagate Differentially Through Large-Scale Functional Networks. Cerebral Cortex, 2020, 30, 3430-3430.	2.9	0
149	The Relationship Between the Slow Oscillation and Underlying Resting State Cortical Activity During Anesthesia and NREM Sleep. , 2018, , .		0
150	Resting State Functional MRI for Presurgical Planning. , 2020, , 287-301.		0