Eric Courchesne

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Normal Brain Development and Aging: Quantitative Analysis at in Vivo MR Imaging in Healthy Volunteers. Radiology, 2000, 216, 672-682.	7.3	912
2	Evidence of Brain Overgrowth in the First Year of Life in Autism. JAMA - Journal of the American Medical Association, 2003, 290, 337.	7.4	907
3	Why the frontal cortex in autism might be talking only to itself: local over-connectivity but long-distance disconnection. Current Opinion in Neurobiology, 2005, 15, 225-230.	4.2	817
4	Attentional Activation of the Cerebellum Independent of Motor Involvement. Science, 1997, 275, 1940-1943.	12.6	722
5	Mapping Early Brain Development in Autism. Neuron, 2007, 56, 399-413.	8.1	685
6	Neuron Number and Size in Prefrontal Cortex of Children With Autism. JAMA - Journal of the American Medical Association, 2011, 306, 2001.	7.4	621
7	Patches of Disorganization in the Neocortex of Children with Autism. New England Journal of Medicine, 2014, 370, 1209-1219.	27.0	601
8	Microglial Activation and Increased Microglial Density Observed in the Dorsolateral Prefrontal Cortex in Autism. Biological Psychiatry, 2010, 68, 368-376.	1.3	590
9	When Is the Brain Enlarged in Autism? A Meta-Analysis of All Brain Size Reports. Biological Psychiatry, 2005, 58, 1-9.	1.3	564
10	Failing to deactivate: Resting functional abnormalities in autism. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8275-8280.	7.1	549
11	Brain growth across the life span in autism: Age-specific changes in anatomical pathology. Brain Research, 2011, 1380, 138-145.	2.2	547
12	Impairment in shifting attention in autistic and cerebellar patients Behavioral Neuroscience, 1994, 108, 848-865.	1.2	535
13	Cerebral Lobes in Autism: Early Hyperplasia and Abnormal Age Effects. NeuroImage, 2002, 16, 1038-1051.	4.2	510
14	Longitudinal Magnetic Resonance Imaging Study of Cortical Development through Early Childhood in Autism. Journal of Neuroscience, 2010, 30, 4419-4427.	3.6	487
15	Targeted sequencing identifies 91 neurodevelopmental-disorder risk genes with autism and developmental-disability biases. Nature Genetics, 2017, 49, 515-526.	21.4	443
16	Brainstem, cerebellar and limbic neuroanatomical abnormalities in autism. Current Opinion in Neurobiology, 1997, 7, 269-278.	4.2	436
17	Evidence for a cerebellar role in reduced exploration and stereotyped behavior in autism. Biological Psychiatry, 2001, 49, 655-664.	1.3	427
18	Localized enlargement of the frontal cortex in early autism. Biological Psychiatry, 2005, 57, 126-133.	1.3	387

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19	The Developmental Neurobiology of Autism Spectrum Disorder. Journal of Neuroscience, 2006, 26, 6897-6906.	3.6	384
20	The brain response to personally familiar faces in autism: findings of fusiform activity and beyond. Brain, 2004, 127, 2703-2716.	7.6	367
21	Brain overgrowth in autism during a critical time in development: implications for frontal pyramidal neuron and interneuron development and connectivity. International Journal of Developmental Neuroscience, 2005, 23, 153-170.	1.6	361
22	Altered proliferation and networks in neural cells derived from idiopathic autistic individuals. Molecular Psychiatry, 2017, 22, 820-835.	7.9	349
23	Linkage-Disequilibrium Mapping of Autistic Disorder, with 15q11-13 Markers. American Journal of Human Genetics, 1998, 62, 1077-1083.	6.2	347
24	Disrupted Neural Synchronization in Toddlers with Autism. Neuron, 2011, 70, 1218-1225.	8.1	341
25	Differential Effects of Developmental Cerebellar Abnormality on Cognitive and Motor Functions in the Cerebellum: An fMRI Study of Autism. American Journal of Psychiatry, 2003, 160, 262-273.	7.2	313
26	Spatial Attention Deficits in Patients with Acquired or Developmental Cerebellar Abnormality. Journal of Neuroscience, 1999, 19, 5632-5643.	3.6	292
27	Amygdala Enlargement in Toddlers with Autism Related to Severity of Social and Communication Impairments. Biological Psychiatry, 2009, 66, 942-949.	1.3	278
28	Brain development in autism: Early overgrowth followed by premature arrest of growth. Mental Retardation and Developmental Disabilities Research Reviews, 2004, 10, 106-111.	3.6	268
29	A failure of left temporal cortex to specialize for language is an early emerging and fundamental property of autism. Brain, 2012, 135, 949-960.	7.6	265
30	SPARK: A US Cohort of 50,000 Families to Accelerate Autism Research. Neuron, 2018, 97, 488-493.	8.1	265
31	Atypical functional lateralization of language in autism spectrum disorders. Brain Research, 2008, 1221, 115-125.	2.2	219
32	Evaluation of the Diagnostic Stability of the Early Autism Spectrum Disorder Phenotype in the General Population Starting at 12 Months. JAMA Pediatrics, 2019, 173, 578.	6.2	211
33	The ASD Living Biology: from cell proliferation to clinical phenotype. Molecular Psychiatry, 2019, 24, 88-107.	7.9	210
34	Cerebellar function in autism: Functional magnetic resonance image activation during a simple motor task. Biological Psychiatry, 2004, 56, 269-278.	1.3	209
35	Event-Related Brain Potentials to Human Faces in Infants. Child Development, 1981, 52, 804.	3.0	207
36	Intersection of diverse neuronal genomes and neuropsychiatric disease: The Brain Somatic Mosaicism Network. Science, 2017, 356, .	12.6	206

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37	Deviant Functional Magnetic Resonance Imaging Patterns of Brain Activity to Speech in 2–3-Year-Old Children with Autism Spectrum Disorder. Biological Psychiatry, 2008, 64, 589-598.	1.3	201
38	The autistic brain: birth through adulthood. Current Opinion in Neurology, 2004, 17, 489-496.	3.6	194
39	Abnormal microglial–neuronal spatial organization in the dorsolateral prefrontal cortex in autism. Brain Research, 2012, 1456, 72-81.	2.2	193
40	Autism: Processing of novel auditory information assessed by event-related brain potentials. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1984, 59, 238-248.	2.0	190
41	Prenatal, Perinatal, and Neonatal Factors in Autism, Pervasive Developmental Disorder-Not Otherwise Specified, and the General Population. Pediatrics, 2001, 107, e63-e63.	2.1	184
42	Age-Dependent Brain Gene Expression and Copy Number Anomalies in Autism Suggest Distinct Pathological Processes at Young Versus Mature Ages. PLoS Genetics, 2012, 8, e1002592.	3.5	179
43	Atypical patterns of cerebral motor activation in autism: a functional magnetic resonance study. Biological Psychiatry, 2001, 49, 665-676.	1.3	175
44	Paternally inherited cis-regulatory structural variants are associated with autism. Science, 2018, 360, 327-331.	12.6	174
45	Autism at the beginning: Microstructural and growth abnormalities underlying the cognitive and behavioral phenotype of autism. Development and Psychopathology, 2005, 17, 577-97.	2.3	167
46	Different Functional Neural Substrates for Good and Poor Language Outcome in Autism. Neuron, 2015, 86, 567-577.	8.1	163
47	Neuroanatomic contributions to slowed orienting of attention in children with autism. Cognitive Brain Research, 1999, 8, 61-71.	3.0	162
48	Event-related brain response abnormalities in autism: evidence for impaired cerebello-frontal spatial attention networks. Cognitive Brain Research, 2001, 11, 127-145.	3.0	161
49	Effects of focused selective attention tasks on event-related potentials in autistic and normal individuals. Electroencephalography and Clinical Neurophysiology, 1990, 75, 207-220.	0.3	155
50	Hotspots of missense mutation identify neurodevelopmental disorder genes and functional domains. Nature Neuroscience, 2017, 20, 1043-1051.	14.8	152
51	In vivo Myeloarchitectonic Analysis of Human Striate and Extrastriate Cortex Using Magnetic Resonance Imaging. Cerebral Cortex, 1992, 2, 417-424.	2.9	145
52	Abnormal Neuroanatomy in a Nonretarded Person With Autism. Archives of Neurology, 1987, 44, 335.	4.5	144
53	The neurobiological basis of autism from a developmental perspective. Development and Psychopathology, 2002, 14, 613-634.	2.3	144
54	Abnormal Variability and Distribution of Functional Maps in Autism: An fMRI Study of Visuomotor Learning. American Journal of Psychiatry, 2003, 160, 1847-1862.	7.2	143

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55	Visual attention abnormalities in autism: Delayed orienting to location. Journal of the International Neuropsychological Society, 1996, 2, 541-550.	1.8	138
56	Diffusion Tensor Imaging Provides Evidence of Possible Axonal Overconnectivity in Frontal Lobes in Autism Spectrum Disorder Toddlers. Biological Psychiatry, 2016, 79, 676-684.	1.3	134
57	MRI Neuroanatomy in Young Girls With Autism. Journal of the American Academy of Child and Adolescent Psychiatry, 2007, 46, 515-523.	0.5	129
58	Slowed orienting of covert visual-spatial attention in autism: Specific deficits associated with cerebellar and parietal abnormality. Development and Psychopathology, 1996, 8, 563-584.	2.3	124
59	A typical participation of visual cortex during word processing in autism: An fMRI study of semantic decision. Neuropsychologia, 2007, 45, 1672-1684.	1.6	123
60	Outcome Classification of Preschool Children With Autism Spectrum Disorders Using MRI Brain Measures. Journal of the American Academy of Child and Adolescent Psychiatry, 2004, 43, 349-357.	0.5	117
61	Neuroanatomic Imaging in Autism. Pediatrics, 1991, 87, 781-790.	2.1	110
62	Large-scale targeted sequencing identifies risk genes for neurodevelopmental disorders. Nature Communications, 2020, 11, 4932.	12.8	105
63	Parietal Damage and Narrow "Spotlight―Spatial Attention. Journal of Cognitive Neuroscience, 1994, 6, 220-232.	2.3	104
64	Prenatal Origins of ASD: The When, What, and How of ASD Development. Trends in Neurosciences, 2020, 43, 326-342.	8.6	100
65	Blood-Based Gene Expression Signatures of Infants and Toddlers With Autism. Journal of the American Academy of Child and Adolescent Psychiatry, 2012, 51, 934-944.e2.	0.5	98
66	Frequency and Complexity of De Novo Structural Mutation in Autism. American Journal of Human Genetics, 2016, 98, 667-679.	6.2	88
67	Prediction of Autism by Translation and Immune/Inflammation Coexpressed Genes in Toddlers From Pediatric Community Practices. JAMA Psychiatry, 2015, 72, 386.	11.0	87
68	Functional neuroimaging of speech perception during a pivotal period in language acquisition. Developmental Science, 2008, 11, 237-252.	2.4	84
69	Auditory spatial localization and attention deficits in autistic adults. Cognitive Brain Research, 2005, 23, 221-234.	3.0	83
70	Cell cycle networks link gene expression dysregulation, mutation, and brain maldevelopment in autistic toddlers. Molecular Systems Biology, 2015, 11, 841.	7.2	78
71	Functionally independent components of early event-related potentials in a visual spatial attention task. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1135-1144.	4.0	76
72	fMRI during natural sleep as a method to study brain function during early childhood. NeuroImage, 2007, 38, 696-707.	4.2	76

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73	The landscape of somatic mutation in cerebral cortex of autistic and neurotypical individuals revealed by ultra-deep whole-genome sequencing. Nature Neuroscience, 2021, 24, 176-185.	14.8	73
74	Cerebellar hypoplasia and hyperplasia in infantile autism. Lancet, The, 1994, 343, 63-64.	13.7	72
75	A perturbed gene network containing PI3K–AKT, RAS–ERK and WNT–β-catenin pathways in leukocytes is linked to ASD genetics and symptom severity. Nature Neuroscience, 2019, 22, 1624-1634.	14.8	71
76	Large-scale associations between the leukocyte transcriptome and BOLD responses to speech differ in autism early language outcome subtypes. Nature Neuroscience, 2018, 21, 1680-1688.	14.8	69
77	A phenotypic spectrum of autism is attributable to the combined effects of rare variants, polygenic risk and sex. Nature Genetics, 2022, 54, 1284-1292.	21.4	66
78	Neural activity-dependent brain changes in development: Implications for psychopathology. Development and Psychopathology, 1994, 6, 697-722.	2.3	63
79	To Screen or Not to Screen Universally for Autism is not the Question: WhyÂthe Task Force Got It Wrong. Journal of Pediatrics, 2016, 176, 182-194.	1.8	63
80	N-acetyl aspartate in autism spectrum disorders: Regional effects and relationship to fMRI activation. Brain Research, 2007, 1162, 85-97.	2.2	54
81	The geometric preference subtype in ASD: identifying a consistent, early-emerging phenomenon through eye tracking. Molecular Autism, 2018, 9, 19.	4.9	52
82	No reduction of spindle neuron number in frontoinsular cortex in autism. Brain and Cognition, 2007, 64, 124-129.	1.8	51
83	Default mode-visual network hypoconnectivity in an autism subtype with pronounced social visual engagement difficulties. ELife, 2019, 8, .	6.0	45
84	Toddlers later diagnosed with autism exhibit multiple structural abnormalities in temporal corpus callosum fibers. Cortex, 2017, 97, 291-305.	2.4	40
85	Rethinking the idea of late autism spectrum disorder onset. Development and Psychopathology, 2018, 30, 553-569.	2.3	34
86	Naturalistic language sampling to characterize the language abilities of 3-year-olds with autism spectrum disorder. Autism, 2019, 23, 699-712.	4.1	34
87	Get SET Early to Identify and Treatment Refer Autism Spectrum Disorder at 1ÂYear and Discover Factors That Influence Early Diagnosis. Journal of Pediatrics, 2021, 236, 179-188.	1.8	34
88	Measuring Outcome in an Early Intervention Program for Toddlers with Autism Spectrum Disorder: Use of a Curriculum-Based Assessment. Autism Research & Treatment, 2014, 2014, 1-9.	0.5	30
89	Identifying prognostic markers in autism spectrum disorder using eye tracking. Autism, 2020, 24, 658-669.	4.1	30
90	Offering to Share: How to Put Heads Together in Autism Neuroimaging. Journal of Autism and Developmental Disorders, 2008, 38, 2-13.	2.7	27

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91	From impasse to insight in autism research: From behavioral symptoms to biological explanations. Development and Psychopathology, 1997, 9, 389-419.	2.3	25
92	Hierarchical cortical transcriptome disorganization in autism. Molecular Autism, 2017, 8, 29.	4.9	24
93	Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia. Nature Neuroscience, 2021, 24, 186-196.	14.8	22
94	Atypical genomic cortical patterning in autism with poor early language outcome. Science Advances, 2021, 7, eabh1663.	10.3	21
95	The Cerebellum: So Much More. , 1998, 282, 879d-879.		21
96	Large scale validation of an early-age eye-tracking biomarker of an autism spectrum disorder subtype. Scientific Reports, 2022, 12, 4253.	3.3	20
97	Intrinsic connectivity network mapping in young children during natural sleep. NeuroImage, 2013, 83, 288-293.	4.2	19
98	From Toddlers to Adults: The Changing Landscape of the Brain in Autism. , 2011, , 611-631.		17
99	Neural responses to affective speech, including motherese, map onto clinical and social eye tracking profiles in toddlers with ASD. Nature Human Behaviour, 2022, 6, 443-454.	12.0	14
100	Multiple freeze-thaw cycles lead to a loss of consistency in poly(A)-enriched RNA sequencing. BMC Genomics, 2021, 22, 69.	2.8	12
101	Genome-wide expression assay comparison across frozen and fixed postmortem brain tissue samples. BMC Genomics, 2011, 12, 449.	2.8	9
102	Pre-treatment clinical and gene expression patterns predict developmental change in early intervention in autism. Molecular Psychiatry, 2021, 26, 7641-7651.	7.9	7
103	Prediction and preparation: Anticipatory role of the cerebellum in diverse neurobehavioral functions. Behavioral and Brain Sciences, 1997, 20, 248-249.	0.7	6