

# Eric Courchesne

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

21,884  
citations

11646

70  
h-index

30081

103  
g-index

120  
all docs

120  
docs citations

120  
times ranked

17750  
citing authors

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

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19	The Developmental Neurobiology of Autism Spectrum Disorder. <i>Journal of Neuroscience</i> , 2006, 26, 6897-6906.	3.6	384
20	The brain response to personally familiar faces in autism: findings of fusiform activity and beyond. <i>Brain</i> , 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. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 153-170.	1.6	361
22	Altered proliferation and networks in neural cells derived from idiopathic autistic individuals. <i>Molecular Psychiatry</i> , 2017, 22, 820-835.	7.9	349
23	Linkage-Disequilibrium Mapping of Autistic Disorder, with 15q11-13 Markers. <i>American Journal of Human Genetics</i> , 1998, 62, 1077-1083.	6.2	347
24	Disrupted Neural Synchronization in Toddlers with Autism. <i>Neuron</i> , 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. <i>American Journal of Psychiatry</i> , 2003, 160, 262-273.	7.2	313
26	Spatial Attention Deficits in Patients with Acquired or Developmental Cerebellar Abnormality. <i>Journal of Neuroscience</i> , 1999, 19, 5632-5643.	3.6	292
27	Amygdala Enlargement in Toddlers with Autism Related to Severity of Social and Communication Impairments. <i>Biological Psychiatry</i> , 2009, 66, 942-949.	1.3	278
28	Brain development in autism: Early overgrowth followed by premature arrest of growth. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 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. <i>Brain</i> , 2012, 135, 949-960.	7.6	265
30	SPARK: A US Cohort of 50,000 Families to Accelerate Autism Research. <i>Neuron</i> , 2018, 97, 488-493.	8.1	265
31	Atypical functional lateralization of language in autism spectrum disorders. <i>Brain Research</i> , 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. <i>JAMA Pediatrics</i> , 2019, 173, 578.	6.2	211
33	The ASD Living Biology: from cell proliferation to clinical phenotype. <i>Molecular Psychiatry</i> , 2019, 24, 88-107.	7.9	210
34	Cerebellar function in autism: Functional magnetic resonance image activation during a simple motor task. <i>Biological Psychiatry</i> , 2004, 56, 269-278.	1.3	209
35	Event-Related Brain Potentials to Human Faces in Infants. <i>Child Development</i> , 1981, 52, 804.	3.0	207
36	Intersection of diverse neuronal genomes and neuropsychiatric disease: The Brain Somatic Mosaicism Network. <i>Science</i> , 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. <i>Biological Psychiatry</i> , 2008, 64, 589-598.	1.3	201
38	The autistic brain: birth through adulthood. <i>Current Opinion in Neurology</i> , 2004, 17, 489-496.	3.6	194
39	Abnormal microglial neuronal spatial organization in the dorsolateral prefrontal cortex in autism. <i>Brain Research</i> , 2012, 1456, 72-81.	2.2	193
40	Autism: Processing of novel auditory information assessed by event-related brain potentials. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 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. <i>Pediatrics</i> , 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. <i>PLoS Genetics</i> , 2012, 8, e1002592.	3.5	179
43	Atypical patterns of cerebral motor activation in autism: a functional magnetic resonance study. <i>Biological Psychiatry</i> , 2001, 49, 665-676.	1.3	175
44	Paternally inherited cis-regulatory structural variants are associated with autism. <i>Science</i> , 2018, 360, 327-331.	12.6	174
45	Autism at the beginning: Microstructural and growth abnormalities underlying the cognitive and behavioral phenotype of autism. <i>Development and Psychopathology</i> , 2005, 17, 577-97.	2.3	167
46	Different Functional Neural Substrates for Good and Poor Language Outcome in Autism. <i>Neuron</i> , 2015, 86, 567-577.	8.1	163
47	Neuroanatomic contributions to slowed orienting of attention in children with autism. <i>Cognitive Brain Research</i> , 1999, 8, 61-71.	3.0	162
48	Event-related brain response abnormalities in autism: evidence for impaired cerebello-frontal spatial attention networks. <i>Cognitive Brain Research</i> , 2001, 11, 127-145.	3.0	161
49	Effects of focused selective attention tasks on event-related potentials in autistic and normal individuals. <i>Electroencephalography and Clinical Neurophysiology</i> , 1990, 75, 207-220.	0.3	155
50	Hotspots of missense mutation identify neurodevelopmental disorder genes and functional domains. <i>Nature Neuroscience</i> , 2017, 20, 1043-1051.	14.8	152
51	In vivo Myeloarchitectonic Analysis of Human Striate and Extrastriate Cortex Using Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 1992, 2, 417-424.	2.9	145
52	Abnormal Neuroanatomy in a Nonretarded Person With Autism. <i>Archives of Neurology</i> , 1987, 44, 335.	4.5	144
53	The neurobiological basis of autism from a developmental perspective. <i>Development and Psychopathology</i> , 2002, 14, 613-634.	2.3	144
54	Abnormal Variability and Distribution of Functional Maps in Autism: An fMRI Study of Visuomotor Learning. <i>American Journal of Psychiatry</i> , 2003, 160, 1847-1862.	7.2	143

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55	Visual attention abnormalities in autism: Delayed orienting to location. <i>Journal of the International Neuropsychological Society</i> , 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. <i>Biological Psychiatry</i> , 2016, 79, 676-684.	1.3	134
57	MRI Neuroanatomy in Young Girls With Autism. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 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. <i>Development and Psychopathology</i> , 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. <i>Neuropsychologia</i> , 2007, 45, 1672-1684.	1.6	123
60	Outcome Classification of Preschool Children With Autism Spectrum Disorders Using MRI Brain Measures. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2004, 43, 349-357.	0.5	117
61	Neuroanatomic Imaging in Autism. <i>Pediatrics</i> , 1991, 87, 781-790.	2.1	110
62	Large-scale targeted sequencing identifies risk genes for neurodevelopmental disorders. <i>Nature Communications</i> , 2020, 11, 4932.	12.8	105
63	Parietal Damage and Narrow "Spotlight" Spatial Attention. <i>Journal of Cognitive Neuroscience</i> , 1994, 6, 220-232.	2.3	104
64	Prenatal Origins of ASD: The When, What, and How of ASD Development. <i>Trends in Neurosciences</i> , 2020, 43, 326-342.	8.6	100
65	Blood-Based Gene Expression Signatures of Infants and Toddlers With Autism. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2012, 51, 934-944.e2.	0.5	98
66	Frequency and Complexity of De Novo Structural Mutation in Autism. <i>American Journal of Human Genetics</i> , 2016, 98, 667-679.	6.2	88
67	Prediction of Autism by Translation and Immune/Inflammation Coexpressed Genes in Toddlers From Pediatric Community Practices. <i>JAMA Psychiatry</i> , 2015, 72, 386.	11.0	87
68	Functional neuroimaging of speech perception during a pivotal period in language acquisition. <i>Developmental Science</i> , 2008, 11, 237-252.	2.4	84
69	Auditory spatial localization and attention deficits in autistic adults. <i>Cognitive Brain Research</i> , 2005, 23, 221-234.	3.0	83
70	Cell cycle networks link gene expression dysregulation, mutation, and brain maldevelopment in autistic toddlers. <i>Molecular Systems Biology</i> , 2015, 11, 841.	7.2	78
71	Functionally independent components of early event-related potentials in a visual spatial attention task. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 1135-1144.	4.0	76
72	fMRI during natural sleep as a method to study brain function during early childhood. <i>NeuroImage</i> , 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. <i>Nature Neuroscience</i> , 2021, 24, 176-185.	14.8	73
74	Cerebellar hypoplasia and hyperplasia in infantile autism. <i>Lancet</i> , The, 1994, 343, 63-64.	13.7	72
75	A perturbed gene network containing PI3K, AKT, RAS, ERK and WNT/β2-catenin pathways in leukocytes is linked to ASD genetics and symptom severity. <i>Nature Neuroscience</i> , 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. <i>Nature Neuroscience</i> , 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. <i>Nature Genetics</i> , 2022, 54, 1284-1292.	21.4	66
78	Neural activity-dependent brain changes in development: Implications for psychopathology. <i>Development and Psychopathology</i> , 1994, 6, 697-722.	2.3	63
79	To Screen or Not to Screen Universally for Autism is not the Question: Why the Task Force Got It Wrong. <i>Journal of Pediatrics</i> , 2016, 176, 182-194.	1.8	63
80	N-acetyl aspartate in autism spectrum disorders: Regional effects and relationship to fMRI activation. <i>Brain Research</i> , 2007, 1162, 85-97.	2.2	54
81	The geometric preference subtype in ASD: identifying a consistent, early-emerging phenomenon through eye tracking. <i>Molecular Autism</i> , 2018, 9, 19.	4.9	52
82	No reduction of spindle neuron number in fronto-insular cortex in autism. <i>Brain and Cognition</i> , 2007, 64, 124-129.	1.8	51
83	Default mode-visual network hypoconnectivity in an autism subtype with pronounced social visual engagement difficulties. <i>ELife</i> , 2019, 8, .	6.0	45
84	Toddlers later diagnosed with autism exhibit multiple structural abnormalities in temporal corpus callosum fibers. <i>Cortex</i> , 2017, 97, 291-305.	2.4	40
85	Rethinking the idea of late autism spectrum disorder onset. <i>Development and Psychopathology</i> , 2018, 30, 553-569.	2.3	34
86	Naturalistic language sampling to characterize the language abilities of 3-year-olds with autism spectrum disorder. <i>Autism</i> , 2019, 23, 699-712.	4.1	34
87	Get SET Early to Identify and Treatment Refer Autism Spectrum Disorder at 1 Year and Discover Factors That Influence Early Diagnosis. <i>Journal of Pediatrics</i> , 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. <i>Autism Research &amp; Treatment</i> , 2014, 2014, 1-9.	0.5	30
89	Identifying prognostic markers in autism spectrum disorder using eye tracking. <i>Autism</i> , 2020, 24, 658-669.	4.1	30
90	Offering to Share: How to Put Heads Together in Autism Neuroimaging. <i>Journal of Autism and Developmental Disorders</i> , 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. <i>Development and Psychopathology</i> , 1997, 9, 389-419.	2.3	25
92	Hierarchical cortical transcriptome disorganization in autism. <i>Molecular Autism</i> , 2017, 8, 29.	4.9	24
93	Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia. <i>Nature Neuroscience</i> , 2021, 24, 186-196.	14.8	22
94	Atypical genomic cortical patterning in autism with poor early language outcome. <i>Science Advances</i> , 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. <i>Scientific Reports</i> , 2022, 12, 4253.	3.3	20
97	Intrinsic connectivity network mapping in young children during natural sleep. <i>NeuroImage</i> , 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. <i>Nature Human Behaviour</i> , 2022, 6, 443-454.	12.0	14
100	Multiple freeze-thaw cycles lead to a loss of consistency in poly(A)-enriched RNA sequencing. <i>BMC Genomics</i> , 2021, 22, 69.	2.8	12
101	Genome-wide expression assay comparison across frozen and fixed postmortem brain tissue samples. <i>BMC Genomics</i> , 2011, 12, 449.	2.8	9
102	Pre-treatment clinical and gene expression patterns predict developmental change in early intervention in autism. <i>Molecular Psychiatry</i> , 2021, 26, 7641-7651.	7.9	7
103	Prediction and preparation: Anticipatory role of the cerebellum in diverse neurobehavioral functions. <i>Behavioral and Brain Sciences</i> , 1997, 20, 248-249.	0.7	6