Frederick Shic

List of Publications by Year
in descending order

110 papers	4,490 citations	172457 29 h-index	128289 60 g-index
117 all docs	117 docs citations	117 times ranked	4328 citing authors

#	Article	IF	Citations
1	Decreased Spontaneous Attention to Social Scenes in 6-Month-Old Infants Later Diagnosed with Autism Spectrum Disorders. Biological Psychiatry, 2013, 74, 195-203.	1.3	488
2	Social Robots as Embedded Reinforcers of Social Behavior in Children with Autism. Journal of Autism and Developmental Disorders, 2013, 43, 1038-1049.	2.7	337
3	Context modulates attention to social scenes in toddlers with autism. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2012, 53, 903-913.	5.2	228
4	Looking But Not Seeing: Atypical Visual Scanning and Recognition of Faces in 2 and 4-Year-Old Children with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2009, 39, 1663-1672.	2.7	213
5	Improving social skills in children with ASD using a long-term, in-home social robot. Science Robotics, 2018, 3, .	17.6	211
6	18-Month Predictors of Later Outcomes in Younger Siblings of Children With Autism Spectrum Disorder: A Baby Siblings Research Consortium Study. Journal of the American Academy of Child and Adolescent Psychiatry, 2014, 53, 1317-1327.e1.	0.5	189
7	Speech Disturbs Face Scanning in 6-Month-Old Infants Who Develop Autism Spectrum Disorder. Biological Psychiatry, 2014, 75, 231-237.	1.3	155
8	Limited activity monitoring in toddlers with autism spectrum disorder. Brain Research, 2011, 1380, 246-254.	2.2	149
9	Tricarboxylic acid cycle of glia in thein vivohuman brain. NMR in Biomedicine, 2002, 15, 1-5.	2.8	131
10	Reduced glutamate neurotransmission in patients with Alzheimer's disease?an in vivo 13C magnetic resonance spectroscopy study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2003, 16, 29-42.	2.0	107
11	Bridging the Research Gap: Making HRI Useful to Individuals with Autism. Journal of Human-robot Interaction, 0, , 26-54.	2.0	98
12	Early motor abilities in infants at heightened versus low risk for ASD: A Baby Siblings Research Consortium (BSRC) study.. Journal of Abnormal Psychology, 2019, 128, 69-80.	1.9	92
13	Early Generalized Overgrowth in Boys With Autism. Archives of General Psychiatry, 2011, 68, 1021.	12.3	87
14	Computer-Assisted Face Processing Instruction Improves Emotion Recognition, Mentalizing, and Social Skills in Students with ASD. Journal of Autism and Developmental Disorders, 2015, 45, 2176-2186.	2.7	85
15	The Autism Biomarkers Consortium for Clinical Trials (ABC-CT): Scientific Context, Study Design, and Progress Toward Biomarker Qualification. Frontiers in Integrative Neuroscience, 2020, 14, 16.	2.1	77
16	Gaze Response to Dyadic Bids at 2ÂYears Related to Outcomes at 3ÂYears in Autism Spectrum Disorders: A Subtyping Analysis. Journal of Autism and Developmental Disorders, 2014, 44, 431-442.	2.7	73
17	Enhanced Social Attention in Female Infant Siblings at Risk for Autism. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, 188-195.e1.	0.5	71
18	The incomplete fixation measure. , 2008, , .		65

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19	A Single Dose, Randomized, Controlled Proof-Of-Mechanism Study of a Novel Vasopressin 1a Receptor Antagonist (RG7713) in High-Functioning Adults with Autism Spectrum Disorder. Neuropsychopharmacology, 2017, 42, 1914-1923.	5.4	63
20	Automatic Recognition of Posed Facial Expression of Emotion in Individuals with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2019, 49, 279-293.	2.7	53
21	Clinical Features of Children With Autism Who Passed 18-Month Screening. Pediatrics, 2018, 141, e20173596.	2.1	51
22	Brief Report: Remotely Delivered Video Modeling for Improving Oral Hygiene in Children with ASD: A Pilot Study. Journal of Autism and Developmental Disorders, 2016, 46, 2791-2796.	2.7	49
23	Multilevel Differences in Spontaneous Social Attention in Toddlers With Autism Spectrum Disorder. Child Development, 2016, 87, 543-557.	3.0	45
24	The Use of Eye Tracking as a Biomarker of Treatment Outcome in a Pilot Randomized Clinical Trial for Young Children with Autism. Autism Research, 2019, 12, 779-793.	3.8	42
25	A Behavioral Analysis of Computational Models of Visual Attention. International Journal of Computer Vision, 2007, 73, 159-177.	15.6	40
26	The relationship between autism symptoms and arousal level in toddlers with autism spectrum disorder, as measured by electrodermal activity. Autism, 2017, 21, 504-508.	4.1	38
27	Emotional robot to examine different play patterns and affective responses of children with and without ASD. , 2016, , .		37
28	JAKEÂ® Multimodal Data Capture System: Insights from an Observational Study of Autism Spectrum Disorder. Frontiers in Neuroscience, 2017, 11, 517.	2.8	36
29	Mixture of autoregressive modeling orders and its implication on single trial EEG classification. Expert Systems With Applications, 2016, 65, 164-180.	7.6	35
30	Relationship Between Sleep and Behavior in Autism Spectrum Disorder: Exploring the Impact of Sleep Variability. Frontiers in Neuroscience, 2020, 14, 211.	2.8	34
31	Autism, eye-tracking, entropy. , 2008, , .		33
32	Biomarker Acquisition and Quality Control for Multi-Site Studies: The Autism Biomarkers Consortium for Clinical Trials. Frontiers in Integrative Neuroscience, 2019, 13, 71.	2.1	33
33	The role of limited salience of speech in selective attention to faces in toddlers with autism spectrum disorders. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2020, 61, 459-469.	5.2	32
34	Day-to-Day Test-Retest Reliability of EEG Profiles in Children With Autism Spectrum Disorder and Typical Development. Frontiers in Integrative Neuroscience, 2020, 14, 21.	2.1	32
35	Accumulation of methylsulfonylmethane in the human brain: identification by multinuclear magnetic resonance spectroscopy. Toxicology Letters, 2001, 123, 169-177.	0.8	31
36	Introduction to Technologies in the Daily Lives of Individuals with Autism. Journal of Autism and Developmental Disorders, 2015, 45, 3773-3776.	2.7	31

#	ARTICLE	IF	CITATIONS
37	A Facial Affect Analysis System for Autism Spectrum Disorder. , 2019, , .		30
38	Context-Specific Dyadic Attention Vulnerabilities DuringÂthe First Year in Infants Later Developing Autism Spectrum Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2021, 60, 166-175.	0.5	29
39	Anxiety sensitivity moderates behavioral avoidance in anxious youth. Behaviour Research and Therapy, 2015, 74, 11-17.	3.1	28
40	The Autism Biomarkers Consortium for Clinical Trials: evaluation of a battery of candidate eye-tracking biomarkers for use in autism clinical trials. Molecular Autism, 2022, 13, 15.	4.9	28
41	AVOIDANCE MODERATES THE ASSOCIATION BETWEEN MOTHERSâ€™ AND CHILDREN'S FEARS: FINDINGS FROM A NOVEL MOTION-TRACKING BEHAVIORAL ASSESSMENT. Depression and Anxiety, 2015, 32, 91-98.	4.1	27
42	An Observational Study With the Janssen Autism Knowledge Engine (JAKEÂ®) in Individuals With Autism Spectrum Disorder. Frontiers in Neuroscience, 2019, 13, 111.	2.8	26
43	Measuring context: The gaze patterns of children with autism evaluated from the bottom-up. , 2007, , .		24
44	Brief Report: Face-Specific Recognition Deficits in Young Children with Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, 2011, 41, 1429-1435.	2.7	23
45	Parent-Endorsed Sex Differences in Toddlers with and Without ASD: Utilizing the M-CHAT. Journal of Autism and Developmental Disorders, 2017, 47, 126-134.	2.7	23
46	Eye Tracking as a Behavioral Biomarker for PsychiatricÂConditions: The Road Ahead. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, 267-268.	0.5	22
47	In Search of Biomarkers for Autism Spectrum Disorder. Autism Research, 2018, 11, 1567-1579.	3.8	22
48	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 813-824.	1.5	21
49	Caregiver Daily Reporting of Symptoms in Autism Spectrum Disorder: Observational Study Using Web and Mobile Apps. JMIR Mental Health, 2019, 6, e11365.	3.3	21
50	A novel computational biostatistics approach implies impaired dephosphorylation of growth factor receptors as associated with severity of autism. Translational Psychiatry, 2014, 4, e354-e354.	4.8	20
51	Brief Report: Diminished Gaze Preference for Dynamic Social Interaction Scenes in Youth with Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, 2017, 47, 506-513.	2.7	20
52	Visual Exploration in Autism Spectrum Disorder: Exploring Age Differences and Dynamic Features Using Recurrence Quantification Analysis. Autism Research, 2018, 11, 1554-1566.	3.8	20
53	Neurogenetic analysis of childhood disintegrative disorder. Molecular Autism, 2017, 8, 19.	4.9	19
54	Infant brain responses to social sounds: A longitudinal functional near-infrared spectroscopy study. Developmental Cognitive Neuroscience, 2019, 36, 100638.	4.0	19

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55	Virtual reality and naturalistic developmental behavioral interventions for children with autism spectrum disorder. Research in Developmental Disabilities, 2021, 111, 103885.	2.2	19
56	A thermal emotion classifier for improved human-robot interaction. , 2016, , .		18
57	Operationalizing atypical gaze in toddlers with autism spectrum disorders: a cohesion-based approach. Molecular Autism, 2018, 9, 25.	4.9	18
58	Social Influences on Executive Functioning in Autism. , 2018, , .		18
59	Enhancing the understanding of clinically meaningful results: A clinical research perspective. Psychiatry Research, 2018, 270, 801-806.	3.3	17
60	Sex-Differences in Children Referred for Assessment: An Exploratory Analysis of the Autism Mental Status Exam (AMSE). Journal of Autism and Developmental Disorders, 2018, 48, 2286-2292.	2.7	15
61	Promoting social attention in 3â€year€olds with ASD through gaze€contingent eye tracking. Autism Research, 2020, 13, 61-73.	3.8	15
62	Potential clinical impact of positive affect in robot interactions for autism intervention. , 2015, , .		14
63	Brief Report: A Mobile Application to Treat Prosodic Deficits in Autism Spectrum Disorder and Other Communication Impairments: A Pilot Study. Journal of Autism and Developmental Disorders, 2016, 46, 320-327.	2.7	14
64	Automated recognition of spontaneous facial expression in individuals with autism spectrum disorder: parsing response variability. Molecular Autism, 2020, 11, 31.	4.9	14
65	Functional Outcomes of Children Identified Early in the Developmental Period as at Risk for ASD Utilizing the The Norwegian Mother, Father and Child Cohort Study (MoBa). Journal of Autism and Developmental Disorders, 2021, 51, 922-932.	2.7	14
66	Sex Differences on the ADOS-2. Journal of Autism and Developmental Disorders, 2023, 53, 2878-2890.	2.7	14
67	A constellation of eye-tracking measures reveals social attention differences in ASD and the broad autism phenotype. Molecular Autism, 2022, 13, 18.	4.9	14
68	Automated data processing of {1H-decoupled} 13C MR spectra acquired from human brain in vivo. Journal of Magnetic Resonance, 2003, 162, 259-268.	2.1	13
69	A smooth pursuit calibration technique. , 2014, , .		13
70	Atypical Emotional Electrodermal Activity in Toddlers with Autism Spectrum Disorder. Autism Research, 2020, 13, 1476-1488.	3.8	13
71	A preliminary study of movement intensity during a Go/No-Go task and its association with ADHD outcomes and symptom severity. Child and Adolescent Psychiatry and Mental Health, 2016, 10, 47.	2.5	12
72	Methodological considerations in the use of Noldus EthoVision XT video tracking of children with autism in multi-site studies. Biological Psychology, 2019, 146, 107712.	2.2	10

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73	Social attention to activities in children and adults with autism spectrum disorder: effects of context and age. Molecular Autism, 2020, 11, 79.	4.9	10
74	Autonomously detecting interaction with an affective robot to explore connection to developmental ability. , 2015, , .		9
75	Modified DBSCAN algorithm on oculomotor fixation identification. , 2016, , .		9
76	Development of an untethered, mobile, low-cost head-mounted eye tracker. , 2014, , .		8
77	Visual Preference for Biological Motion in Children and Adults with Autism Spectrum Disorder: An Eye-Tracking Study. Journal of Autism and Developmental Disorders, 2021, 51, 2369-2380.	2.7	8
78	Saliency-based Bayesian modeling of dynamic viewing of static scenes. , 2014, , .		7
79	Social development. IEEE Computational Intelligence Magazine, 2006, 1, 41-47.	3.2	6
80	Catalysts for Change: The Role of Small Business Funders in the Creation and Dissemination of Innovation. Journal of Autism and Developmental Disorders, 2015, 45, 3900-3904.	2.7	6
81	Exploring Social Biomarkers in High-Functioning Adults with Autism and Asperger's Versus Healthy Controls: A Cross-Sectional Analysis. Journal of Autism and Developmental Disorders, 2020, 50, 4412-4430.	2.7	6
82	Selection of Eye-Tracking Stimuli for Prediction by Sparsely Grouped Input Variables for Neural Networks: towards Biomarker Refinement for Autism. , 2020, , .		6
83	What are we optimizing for in autism screening? Examination of algorithmic changes in the M-CHAT. Autism Research, 2021, , .	3.8	6
84	PITFALLS IN THE MODELING OF DEVELOPMENTAL SYSTEMS. International Journal of Humanoid Robotics, 2007, 04, 435-454.	1.1	5
85	On relationships between fixation identification algorithms and fractal box counting methods. , 2014, 2014, 67-74.		5
86	Interactive eye tracking for gaze strategy modification. , 2015, , .		5
87	Mobile ascertainment of smoking status through breath: A machine learning approach. , 2016, , .		5
88	An exploratory analysis targeting diagnostic classification of AAC app usage patterns. , 2017, , .		4
89	Evaluation of the MoMba Live Long Remote Smoking Detection System During and After Pregnancy: Development and Usability Study. JMIR MHealth and UHealth, 2020, 8, e18809.	3.7	4
90	Style transformed synthetic images for real world gaze estimation by using residual neural network with embedded personal identities. Applied Intelligence, 0, , .	5.3	4

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91	Linking volitional preferences for emotional information to social difficulties: A game approach using the microsoft kinect. , 2015, , .		3
92	Multilevel hybrid principal components analysis for region‑referenced functional electroencephalography data. Statistics in Medicine, 2022, 41, 3737-3757.	1.6	3
93	Attention Allocation During Exploration of Visual Arrays in ASD: Results from the ABC-CT Feasibility Study. Journal of Autism and Developmental Disorders, 0, , .	2.7	3
94	Stratification of Children with Autism Spectrum Disorder Through Fusion of Temporal Information in Eye-gaze Scan-Paths. ACM Transactions on Knowledge Discovery From Data, 2023, 17, 1-20.	3.5	3
95	Letter to the editor. Toxicology Letters, 2002, 129, 263.	0.8	2
96	Optimality of the distance dispersion fixation identification algorithm. , 2016, , .		2
97	Thermographic eye tracking. , 2016, , .		2
98	Learning Oculomotor Behaviors from Scanpath. , 2021, , .		2
99	Eye-Tracking. , 2013, , 1208-1213.		1
100	How Not to Evaluate a Developmental System. , 0, , .		0
101	Vocalization. , 2013, , 3329-3329.		0
102	Early Intervention. , 2013, , 1031-1032.		0
103	Mapping connections between biological-emotional preferences and affective recognition: An eye-tracking interface for passive assessment of emotional competency. , 2015, , .		0
104	1.32 THE JANSSEN AUTISM KNOWLEDGE ENGINE (JAKEâ„¢): A SET OF TOOLS AND TECHNOLOGIES TO ASSESS POTENTIAL BIOMARKERS FOR AUTISM SPECTRUM DISORDERS. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, S110.	0.5	0
105	47.2 EYE TRACKING IN EARLY AUTISM SPECTRUM DISORDER: UTILITY AS A MARKER IN CLINICAL TRIALS. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, S333.	0.5	0
106	Eye-Tracking. , 2021, , 1930-1936.		0
107	Upright/Inverted Figures. , 2013, , 3204-3205.		0
108	Video Games, Use of. , 2013, , 3255-3265.		0

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109	Magnetic Resonance Spectroscopy. , 2013, , 1783-1789.		0
110	Hybrid Calibration for Eye Tracking: Smooth Pursuit Trajectory with Anchor Points. Journal of Vision, 2016, 16, 1355.	0.3	0