

# Frederick Shic

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

4,490  
citations

196777

29  
h-index

145109

60  
g-index

117  
all docs

117  
docs citations

117  
times ranked

4777  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex Differences on the ADOS-2. Journal of Autism and Developmental Disorders, 2023, 53, 2878-2890.	1.7	14
2	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.	2.5	3
3	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.	2.6	28
4	A constellation of eye-tracking measures reveals social attention differences in ASD and the broad autism phenotype. Molecular Autism, 2022, 13, 18.	2.6	14
5	Multilevel hybrid principal components analysis for region-referenced functional electroencephalography data. Statistics in Medicine, 2022, 41, 3737-3757.	0.8	3
6	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 813-824.	1.1	21
7	Context-Specific Dyadic Attention Vulnerabilities During the First Year in Infants Later Developing Autism Spectrum Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2021, 60, 166-175.	0.3	29
8	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.	1.7	8
9	Eye-Tracking. , 2021, , 1930-1936.		0
10	Virtual reality and naturalistic developmental behavioral interventions for children with autism spectrum disorder. Research in Developmental Disabilities, 2021, 111, 103885.	1.2	19
11	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.	1.7	14
12	Learning Oculomotor Behaviors from Scanpath. , 2021, , .		2
13	What are we optimizing for in autism screening? Examination of algorithmic changes in the M-CHAT. Autism Research, 2021, , .	2.1	6
14	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.	3.1	32
15	Promoting social attention in 3-year-olds with ASD through gaze-contingent eye tracking. Autism Research, 2020, 13, 61-73.	2.1	15
16	Social attention to activities in children and adults with autism spectrum disorder: effects of context and age. Molecular Autism, 2020, 11, 79.	2.6	10
17	Atypical Emotional Electrodermal Activity in Toddlers with Autism Spectrum Disorder. Autism Research, 2020, 13, 1476-1488.	2.1	13
18	Automated recognition of spontaneous facial expression in individuals with autism spectrum disorder: parsing response variability. Molecular Autism, 2020, 11, 31.	2.6	14

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19	Relationship Between Sleep and Behavior in Autism Spectrum Disorder: Exploring the Impact of Sleep Variability. <i>Frontiers in Neuroscience</i> , 2020, 14, 211.	1.4	34
20	Day-to-Day Test-Retest Reliability of EEG Profiles in Children With Autism Spectrum Disorder and Typical Development. <i>Frontiers in Integrative Neuroscience</i> , 2020, 14, 21.	1.0	32
21	Exploring Social Biomarkers in High-Functioning Adults with Autism and Asperger's Versus Healthy Controls: A Cross-Sectional Analysis. <i>Journal of Autism and Developmental Disorders</i> , 2020, 50, 4412-4430.	1.7	6
22	The Autism Biomarkers Consortium for Clinical Trials (ABC-CT): Scientific Context, Study Design, and Progress Toward Biomarker Qualification. <i>Frontiers in Integrative Neuroscience</i> , 2020, 14, 16.	1.0	77
23	Selection of Eye-Tracking Stimuli for Prediction by Sparsely Grouped Input Variables for Neural Networks: towards Biomarker Refinement for Autism. , 2020, , .		6
24	Evaluation of the MoMba Live Long Remote Smoking Detection System During and After Pregnancy: Development and Usability Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e18809.	1.8	4
25	A Facial Affect Analysis System for Autism Spectrum Disorder. , 2019, , .		30
26	Methodological considerations in the use of Noldus EthoVision XT video tracking of children with autism in multi-site studies. <i>Biological Psychology</i> , 2019, 146, 107712.	1.1	10
27	The Use of Eye Tracking as a Biomarker of Treatment Outcome in a Pilot Randomized Clinical Trial for Young Children with Autism. <i>Autism Research</i> , 2019, 12, 779-793.	2.1	42
28	Infant brain responses to social sounds: A longitudinal functional near-infrared spectroscopy study. <i>Developmental Cognitive Neuroscience</i> , 2019, 36, 100638.	1.9	19
29	An Observational Study With the Janssen Autism Knowledge Engine (JAKE®) in Individuals With Autism Spectrum Disorder. <i>Frontiers in Neuroscience</i> , 2019, 13, 111.	1.4	26
30	Automatic Recognition of Posed Facial Expression of Emotion in Individuals with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2019, 49, 279-293.	1.7	53
31	Biomarker Acquisition and Quality Control for Multi-Site Studies: The Autism Biomarkers Consortium for Clinical Trials. <i>Frontiers in Integrative Neuroscience</i> , 2019, 13, 71.	1.0	33
32	Early motor abilities in infants at heightened versus low risk for ASD: A Baby Siblings Research Consortium (BSRC) study.. <i>Journal of Abnormal Psychology</i> , 2019, 128, 69-80.	2.0	92
33	Caregiver Daily Reporting of Symptoms in Autism Spectrum Disorder: Observational Study Using Web and Mobile Apps. <i>JMIR Mental Health</i> , 2019, 6, e11365.	1.7	21
34	Sex-Differences in Children Referred for Assessment: An Exploratory Analysis of the Autism Mental Status Exam (AMSE). <i>Journal of Autism and Developmental Disorders</i> , 2018, 48, 2286-2292.	1.7	15
35	Operationalizing atypical gaze in toddlers with autism spectrum disorders: a cohesion-based approach. <i>Molecular Autism</i> , 2018, 9, 25.	2.6	18
36	Visual Exploration in Autism Spectrum Disorder: Exploring Age Differences and Dynamic Features Using Recurrence Quantification Analysis. <i>Autism Research</i> , 2018, 11, 1554-1566.	2.1	20

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37	Enhancing the understanding of clinically meaningful results: A clinical research perspective. <i>Psychiatry Research</i> , 2018, 270, 801-806.	1.7	17
38	In Search of Biomarkers for Autism Spectrum Disorder. <i>Autism Research</i> , 2018, 11, 1567-1579.	2.1	22
39	Clinical Features of Children With Autism Who Passed 18-Month Screening. <i>Pediatrics</i> , 2018, 141, e20173596.	1.0	51
40	Improving social skills in children with ASD using a long-term, in-home social robot. <i>Science Robotics</i> , 2018, 3, .	9.9	211
41	Social Influences on Executive Functioning in Autism. , 2018, , .		18
42	The relationship between autism symptoms and arousal level in toddlers with autism spectrum disorder, as measured by electrodermal activity. <i>Autism</i> , 2017, 21, 504-508.	2.4	38
43	Neurogenetic analysis of childhood disintegrative disorder. <i>Molecular Autism</i> , 2017, 8, 19.	2.6	19
44	Parent-Endorsed Sex Differences in Toddlers with and Without ASD: Utilizing the M-CHAT. <i>Journal of Autism and Developmental Disorders</i> , 2017, 47, 126-134.	1.7	23
45	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. <i>Neuropsychopharmacology</i> , 2017, 42, 1914-1923.	2.8	63
46	Brief Report: Diminished Gaze Preference for Dynamic Social Interaction Scenes in Youth with Autism Spectrum Disorders. <i>Journal of Autism and Developmental Disorders</i> , 2017, 47, 506-513.	1.7	20
47	JAKE <sup>®</sup> Multimodal Data Capture System: Insights from an Observational Study of Autism Spectrum Disorder. <i>Frontiers in Neuroscience</i> , 2017, 11, 517.	1.4	36
48	An exploratory analysis targeting diagnostic classification of AAC app usage patterns. , 2017, , .		4
49	Multilevel Differences in Spontaneous Social Attention in Toddlers With Autism Spectrum Disorder. <i>Child Development</i> , 2016, 87, 543-557.	1.7	45
50	Optimality of the distance dispersion fixation identification algorithm. , 2016, , .		2
51	A thermal emotion classifier for improved human-robot interaction. , 2016, , .		18
52	Mobile ascertainment of smoking status through breath: A machine learning approach. , 2016, , .		5
53	A preliminary study of movement intensity during a Go/No-Go task and its association with ADHD outcomes and symptom severity. <i>Child and Adolescent Psychiatry and Mental Health</i> , 2016, 10, 47.	1.2	12
54	1.32 THE JANSSEN AUTISM KNOWLEDGE ENGINE (JAKE <sup>®</sup> , <sup>®</sup> ): A SET OF TOOLS AND TECHNOLOGIES TO ASSESS POTENTIAL BIOMARKERS FOR AUTISM SPECTRUM DISORDERS. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2016, 55, S110.	0.3	0

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55	Emotional robot to examine different play patterns and affective responses of children with and without ASD. , 2016, , .		37
56	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.	1.7	49
57	Modified DBSCAN algorithm on oculomotor fixation identification. , 2016, , .		9
58	Thermographic eye tracking. , 2016, , .		2
59	Mixture of autoregressive modeling orders and its implication on single trial EEG classification. Expert Systems With Applications, 2016, 65, 164-180.	4.4	35
60	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.	0.3	0
61	Eye Tracking as a Behavioral Biomarker for Psychiatric Conditions: The Road Ahead. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, 267-268.	0.3	22
62	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.	0.3	71
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.	1.7	14
64	Hybrid Calibration for Eye Tracking: Smooth Pursuit Trajectory with Anchor Points. Journal of Vision, 2016, 16, 1355.	0.1	0
65	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.	1.7	6
66	Linking volitional preferences for emotional information to social difficulties: A game approach using the microsoft kinect. , 2015, , .		3
67	Mapping connections between biological-emotional preferences and affective recognition: An eye-tracking interface for passive assessment of emotional competency. , 2015, , .		0
68	Potential clinical impact of positive affect in robot interactions for autism intervention. , 2015, , .		14
69	Introduction to Technologies in the Daily Lives of Individuals with Autism. Journal of Autism and Developmental Disorders, 2015, 45, 3773-3776.	1.7	31
70	Autonomously detecting interaction with an affective robot to explore connection to developmental ability. , 2015, , .		9
71	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.	1.7	85
72	AVOIDANCE MODERATES THE ASSOCIATION BETWEEN MOTHERS' AND CHILDREN'S FEARS: FINDINGS FROM A NOVEL MOTION-TRACKING BEHAVIORAL ASSESSMENT. Depression and Anxiety, 2015, 32, 91-98.	2.0	27

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73	Anxiety sensitivity moderates behavioral avoidance in anxious youth. Behaviour Research and Therapy, 2015, 74, 11-17.	1.6	28
74	Interactive eye tracking for gaze strategy modification. , 2015, , .		5
75	On relationships between fixation identification algorithms and fractal box counting methods. , 2014, 2014, 67-74.		5
76	Development of an untethered, mobile, low-cost head-mounted eye tracker. , 2014, , .		8
77	Saliency-based Bayesian modeling of dynamic viewing of static scenes. , 2014, , .		7
78	A smooth pursuit calibration technique. , 2014, , .		13
79	A novel computational biostatistics approach implies impaired dephosphorylation of growth factor receptors as associated with severity of autism. Translational Psychiatry, 2014, 4, e354-e354.	2.4	20
80	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.	1.7	73
81	Speech Disturbs Face Scanning in 6-Month-Old Infants Who Develop Autism Spectrum Disorder. Biological Psychiatry, 2014, 75, 231-237.	0.7	155
82	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.	0.3	189
83	Social Robots as Embedded Reinforcers of Social Behavior in Children with Autism. Journal of Autism and Developmental Disorders, 2013, 43, 1038-1049.	1.7	337
84	Vocalization. , 2013, , 3329-3329.		0
85	Decreased Spontaneous Attention to Social Scenes in 6-Month-Old Infants Later Diagnosed with Autism Spectrum Disorders. Biological Psychiatry, 2013, 74, 195-203.	0.7	488
86	Early Intervention. , 2013, , 1031-1032.		0
87	Eye-Tracking. , 2013, , 1208-1213.		1
88	Upright/Inverted Figures. , 2013, , 3204-3205.		0
89	Video Games, Use of. , 2013, , 3255-3265.		0
90	Magnetic Resonance Spectroscopy. , 2013, , 1783-1789.		0

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91	Context modulates attention to social scenes in toddlers with autism. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2012, 53, 903-913.	3.1	228
92	Limited activity monitoring in toddlers with autism spectrum disorder. <i>Brain Research</i> , 2011, 1380, 246-254.	1.1	149
93	Brief Report: Face-Specific Recognition Deficits in Young Children with Autism Spectrum Disorders. <i>Journal of Autism and Developmental Disorders</i> , 2011, 41, 1429-1435.	1.7	23
94	Early Generalized Overgrowth in Boys With Autism. <i>Archives of General Psychiatry</i> , 2011, 68, 1021.	13.8	87
95	Looking But Not Seeing: Atypical Visual Scanning and Recognition of Faces in 2 and 4-Year-Old Children with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2009, 39, 1663-1672.	1.7	213
96	Autism, eye-tracking, entropy. , 2008, , .		33
97	The incomplete fixation measure. , 2008, , .		65
98	PITFALLS IN THE MODELING OF DEVELOPMENTAL SYSTEMS. <i>International Journal of Humanoid Robotics</i> , 2007, 04, 435-454.	0.6	5
99	Measuring context: The gaze patterns of children with autism evaluated from the bottom-up. , 2007, , .		24
100	A Behavioral Analysis of Computational Models of Visual Attention. <i>International Journal of Computer Vision</i> , 2007, 73, 159-177.	10.9	40
101	Social development. <i>IEEE Computational Intelligence Magazine</i> , 2006, 1, 41-47.	3.4	6
102	Reduced glutamate neurotransmission in patients with Alzheimer's disease?an in vivo <sup>13</sup> C magnetic resonance spectroscopy study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2003, 16, 29-42.	1.1	107
103	Automated data processing of { <sup>1</sup> H-decoupled} <sup>13</sup> C MR spectra acquired from human brain in vivo. <i>Journal of Magnetic Resonance</i> , 2003, 162, 259-268.	1.2	13
104	Letter to the editor. <i>Toxicology Letters</i> , 2002, 129, 263.	0.4	2
105	Tricarboxylic acid cycle of glia in their vivohuman brain. <i>NMR in Biomedicine</i> , 2002, 15, 1-5.	1.6	131
106	Accumulation of methylsulfonylmethane in the human brain: identification by multinuclear magnetic resonance spectroscopy. <i>Toxicology Letters</i> , 2001, 123, 169-177.	0.4	31
107	How Not to Evaluate a Developmental System. , 0, , .		0
108	Bridging the Research Gap: Making HRI Useful to Individuals with Autism. <i>Journal of Human-robot Interaction</i> , 0, , 26-54.	2.0	98

#	ARTICLE	IF	CITATIONS
109	Style transformed synthetic images for real world gaze estimation by using residual neural network with embedded personal identities. Applied Intelligence, 0, , .	3.3	4
110	Attention Allocation During Exploration of Visual Arrays in ASD: Results from the ABC-CT Feasibility Study. Journal of Autism and Developmental Disorders, 0, , .	1.7	3