

# Lucia Billeci

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

2,311  
citations

236833

25  
h-index

243529

44  
g-index

88  
all docs

88  
docs citations

88  
times ranked

3295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Autism and social robotics: A systematic review. <i>Autism Research</i> , 2016, 9, 165-183.	2.1	312
2	Gut to brain interaction in Autism Spectrum Disorders: a randomized controlled trial on the role of probiotics on clinical, biochemical and neurophysiological parameters. <i>BMC Psychiatry</i> , 2016, 16, 183.	1.1	133
3	White matter connectivity in children with autism spectrum disorders: a tract-based spatial statistics study. <i>BMC Neurology</i> , 2012, 12, 148.	0.8	95
4	Effects of Probiotic Supplementation on Gastrointestinal, Sensory and Core Symptoms in Autism Spectrum Disorders: A Randomized Controlled Trial. <i>Frontiers in Psychiatry</i> , 2020, 11, 550593.	1.3	86
5	On the Application of Quantitative EEG for Characterizing Autistic Brain: A Systematic Review. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 442.	1.0	85
6	An efficient unsupervised fetal QRS complex detection from abdominal maternal ECG. <i>Physiological Measurement</i> , 2014, 35, 1607-1619.	1.2	80
7	The Broad Autism (Endo)Phenotype: Neurostructural and Neurofunctional Correlates in Parents of Individuals with Autism Spectrum Disorders. <i>Frontiers in Neuroscience</i> , 2016, 10, 346.	1.4	74
8	Patient-specific seizure prediction based on heart rate variability and recurrence quantification analysis. <i>PLoS ONE</i> , 2018, 13, e0204339.	1.1	70
9	Olfaction in autism spectrum disorders: A systematic review. <i>Child Neuropsychology</i> , 2017, 23, 1-25.	0.8	60
10	Disentangling the initiation from the response in joint attention: an eye-tracking study in toddlers with autism spectrum disorders. <i>Translational Psychiatry</i> , 2016, 6, e808-e808.	2.4	57
11	Association Between Atopic Dermatitis and Autism Spectrum Disorders: A Systematic Review. <i>American Journal of Clinical Dermatology</i> , 2015, 16, 371-388.	3.3	52
12	Quantifying patterns of joint attention during human-robot interactions: An application for autism spectrum disorder assessment. <i>Pattern Recognition Letters</i> , 2019, 118, 42-50.	2.6	51
13	Electronic Nose as a Novel Method for Diagnosing Cancer: A Systematic Review. <i>Biosensors</i> , 2020, 10, 84.	2.3	49
14	Monitoring of autonomic response to sociocognitive tasks during treatment in children with Autism Spectrum Disorders by wearable technologies: A feasibility study. <i>Computers in Biology and Medicine</i> , 2017, 85, 143-152.	3.9	48
15	Cognitive training modifies frequency EEG bands and neuropsychological measures in Rett syndrome. <i>Research in Developmental Disabilities</i> , 2016, 53-54, 73-85.	1.2	46
16	The FACE of autism. , 2010, , .		42
17	An integrated EEG and eye-tracking approach for the study of responding and initiating joint attention in Autism Spectrum Disorders. <i>Scientific Reports</i> , 2017, 7, 13560.	1.6	42
18	Heart Rate Variability During a Joint Attention Task in Toddlers With Autism Spectrum Disorders. <i>Frontiers in Physiology</i> , 2018, 9, 467.	1.3	40

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19	Omalizumab for the Treatment of Chronic Idiopathic Urticaria: Systematic Review of the Literature. <i>Pharmacotherapy</i> , 2017, 37, 464-480.	1.2	39
20	An Integrated Approach for the Monitoring of Brain and Autonomic Response of Children with Autism Spectrum Disorders during Treatment by Wearable Technologies. <i>Frontiers in Neuroscience</i> , 2016, 10, 276.	1.4	37
21	MicroRNA Cross-Involvement in Autism Spectrum Disorders and Atopic Dermatitis: A Literature Review. <i>Journal of Clinical Medicine</i> , 2019, 8, 88.	1.0	35
22	Olfactory Processing in Male Children with Autism: Atypical Odor Threshold and Identification. <i>Journal of Autism and Developmental Disorders</i> , 2017, 47, 3243-3251.	1.7	33
23	GOLIAH: A Gaming Platform for Home-Based Intervention in Autism “ Principles and Design. <i>Frontiers in Psychiatry</i> , 2016, 7, 70.	1.3	32
24	Contextual priors do not modulate action prediction in children with autism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191319.	1.2	30
25	EYES Are The Window to the Mind: Eye-Tracking Technology as a Novel Approach to Study Clinical Characteristics of ADHD. <i>Psychiatry Research</i> , 2020, 290, 113135.	1.7	30
26	Development and evaluation of a social robot platform for therapy in autism. , 2011, 2011, 4515-8.		28
27	Reciprocity in Interaction: A Window on the First Year of Life in Autism. <i>Autism Research &amp; Treatment</i> , 2013, 2013, 1-12.	0.1	28
28	NEuronMORphological analysis tool: open-source software for quantitative morphometrics. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 2.	1.3	28
29	Machine Learning for the Classification of Alzheimer’s Disease and Its Prodromal Stage Using Brain Diffusion Tensor Imaging Data: A Systematic Review. <i>Processes</i> , 2020, 8, 1071.	1.3	27
30	A new method for QRS complex detection in multichannel ECG: Application to self-monitoring of fetal health. <i>Computers in Biology and Medicine</i> , 2017, 85, 125-134.	3.9	26
31	Wearable Sensors for Assessing the Role of Olfactory Training on the Autonomic Response to Olfactory Stimulation. <i>Sensors</i> , 2021, 21, 770.	2.1	25
32	Rehabilitative Interventions and Brain Plasticity in Autism Spectrum Disorders: Focus on MRI-Based Studies. <i>Frontiers in Neuroscience</i> , 2016, 10, 139.	1.4	24
33	A Combined Independent Source Separation and Quality Index Optimization Method for Fetal ECG Extraction from Abdominal Maternal Leads. <i>Sensors</i> , 2017, 17, 1135.	2.1	24
34	The role of wearable sensors and wireless technologies for the assessment of heart rate variability in anorexia nervosa. <i>Eating and Weight Disorders</i> , 2015, 20, 23-31.	1.2	23
35	Multimodal Functional and Structural Brain Connectivity Analysis in Autism: A Preliminary Integrated Approach With EEG, fMRI, and DTI. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 213-226.	2.6	23
36	Emotional processing deficits in Italian children with Disruptive Behavior Disorder: The role of callous unemotional traits. <i>Behaviour Research and Therapy</i> , 2019, 113, 32-38.	1.6	21

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37	GOLIAH (Gaming Open Library for Intervention in Autism at Home): a 6-month single blind matched controlled exploratory study. <i>Child and Adolescent Psychiatry and Mental Health</i> , 2017, 11, 17.	1.2	18
38	“Mom Let’s Go to the Dentist!” Preliminary Feasibility of a Tailored Dental Intervention for Children with Autism Spectrum Disorder in the Italian Public Health Service. <i>Brain Sciences</i> , 2020, 10, 444.	1.1	18
39	Autism and lack of D3 vitamin: A systematic review. <i>Research in Autism Spectrum Disorders</i> , 2014, 8, 1685-1698.	0.8	17
40	Automatic Detection of Atrial Fibrillation and Other Arrhythmias in ECG Recordings Acquired by a Smartphone Device. <i>Electronics (Switzerland)</i> , 2018, 7, 199.	1.8	17
41	Autonomic Nervous System Response during Light Physical Activity in Adolescents with Anorexia Nervosa Measured by Wearable Devices. <i>Sensors</i> , 2019, 19, 2820.	2.1	14
42	An Innovative, Unobtrusive Approach to Investigate Smartphone Interaction in Nonaddicted Subjects Based on Wearable Sensors: A Pilot Study. <i>Medicina (Lithuania)</i> , 2019, 55, 37.	0.8	14
43	Autistic traits impact on olfactory processing in adolescent girls with Anorexia Nervosa restricting type. <i>Psychiatry Research</i> , 2019, 274, 20-26.	1.7	14
44	A Machine Learning Application to Predict Early Lung Involvement in Scleroderma: A Feasibility Evaluation. <i>Diagnostics</i> , 2021, 11, 1880.	1.3	14
45	A systematic review of the association between allergic asthma and autism. <i>Minerva Pediatrics</i> , 2017, 69, 538-550.	0.2	14
46	Wearable Sensors to Characterize the Autonomic Nervous System Correlates of Food-Like Odors Perception: A Pilot Study. <i>Electronics (Switzerland)</i> , 2019, 8, 1481.	1.8	13
47	Sympathetic arousal in children with oppositional defiant disorder and its relation to emotional dysregulation. <i>Journal of Affective Disorders</i> , 2019, 257, 207-213.	2.0	12
48	A feasibility study on non-invasive fetal ECG to evaluate prenatal autonomic nervous system activity. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2020, 246, 60-66.	0.5	12
49	A personal monitoring architecture to detect muscular fatigue in elderly. <i>Neuromuscular Disorders</i> , 2012, 22, S192-S197.	0.3	11
50	The soft computing-based approach to investigate allergic diseases: a systematic review. <i>Clinical and Molecular Allergy</i> , 2017, 15, 10.	0.8	11
51	Olfactory Testing in Frontotemporal Dementia: A Literature Review. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2018, 33, 342-352.	0.9	11
52	Can Machine Learning Predict Stress Reduction Based on Wearable Sensors’ Data Following Relaxation at Workplace? A Pilot Study. <i>Processes</i> , 2020, 8, 448.	1.3	11
53	A randomized controlled trial into the effects of probiotics on electroencephalography in preschoolers with autism. <i>Autism</i> , 2023, 27, 117-132.	2.4	10
54	Using brain connectivity measure of EEG synchrostates for discriminating typical and Autism Spectrum Disorder. , 2013, , .		9

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55	Excessive physical activity in young girls with restrictive-type anorexia nervosa: its role on cardiac structure and performance. <i>Eating and Weight Disorders</i> , 2018, 23, 653-663.	1.2	9
56	E-Senses, Panel Tests and Wearable Sensors: A Teamwork for Food Quality Assessment and Prediction of Consumer's Choices. <i>Chemosensors</i> , 2022, 10, 244.	1.8	9
57	ECG and GSR measure and analysis using wearable systems: Application in anorexia nervosa adolescents. , 2013, , .		8
58	Detection of AF and Other Rhythms Using RR Variability and ECG Spectrum Measures. , 0, , .		8
59	Numerical simulation of novel concept 4D cardiac microtomography for small rodents based on all-optical Thomson scattering X-ray sources. <i>Scientific Reports</i> , 2019, 9, 8439.	1.6	8
60	Comparative Evaluation of the Autonomic Response to Cognitive and Sensory Stimulations through Wearable Sensors. <i>Sensors</i> , 2019, 19, 4661.	2.1	8
61	Parenting practices moderate the link between attention to the eyes and callous unemotional traits in children with Disruptive Behavior Disorder: An eye-tracking study. <i>Journal of Psychiatric Research</i> , 2022, 146, 272-278.	1.5	8
62	Brain Network Organization Correlates with Autistic Features in Preschoolers with Autism Spectrum Disorders and in Their Fathers: Preliminary Data from a DWI Analysis. <i>Journal of Clinical Medicine</i> , 2019, 8, 487.	1.0	7
63	How Attention to Faces and Objects Changes Over Time in Toddlers with Autism Spectrum Disorders: Preliminary Evidence from An Eye Tracking Study. <i>Brain Sciences</i> , 2019, 9, 344.	1.1	7
64	QRS Detection Based on Medical Knowledge and Cascades of Moving Average Filters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6995.	1.3	7
65	Heartbeat-Evoked Cortical Potential during Sleep and Interoceptive Sensitivity: A Matter of Hypnotizability. <i>Brain Sciences</i> , 2021, 11, 1089.	1.1	7
66	Psychopathic traits and emotion processing in a clinical sample of children with disruptive behavior disorder. <i>Current Psychology</i> , 2023, 42, 19981-19990.	1.7	6
67	Assessment and comparison of neural morphology through metrical feature extraction and analysis in neuron and neuron-glia cultures. <i>Journal of Biological Physics</i> , 2009, 35, 447-464.	0.7	5
68	Automated extraction and classification of dynamic metrical features of morphological development in dissociated Purkinje neurons. <i>Journal of Neuroscience Methods</i> , 2010, 185, 315-324.	1.3	5
69	Innovative technologies and methodologies based on integration of virtual reality and wearable systems for psychological stress treatment. <i>International Journal of Psychophysiology</i> , 2012, 85, 402.	0.5	5
70	A Novel Application for Cognitive Evaluation in Mountain Ultramarathons: Olfactory Assessment. <i>Wilderness and Environmental Medicine</i> , 2016, 27, 131-135.	0.4	5
71	Behavioral and Autonomic Responses in Treating Children with High-Functioning Autism Spectrum Disorder: Clinical and Phenomenological Insights from Two Case Reports. <i>Brain Sciences</i> , 2020, 10, 382.	1.1	5
72	Reply to Fluegge: Association Between Atopic Dermatitis and Autism Spectrum Disorders: A Systematic Review. <i>American Journal of Clinical Dermatology</i> , 2016, 17, 189-190.	3.3	4

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73	A Machine Learning Approach for Epileptic Seizure Prediction and Early Intervention. Biosystems and Biorobotics, 2019, , 972-976.	0.2	4
74	Electronic Nose and Tongue for Assessing Human Microbiota. Chemosensors, 2022, 10, 85.	1.8	3
75	Healthy aging: the INTECMAN project. Aging Clinical and Experimental Research, 2021, 33, 2011-2015.	1.4	2
76	Neurophysiological and Behavioural Variables in Cognitive Impairment: Towards a Personalised Monitoring System. Biosystems and Biorobotics, 2015, , 407-417.	0.2	1
77	Characterizing Electrocardiographic Changes During Pre-seizure Periods through Temporal and Spectral Features. , 2017, , .		1
78	Music Modulates Autonomic Nervous System Activity in Human Fetuses. Frontiers in Medicine, 2022, 9, 857591.	1.2	1
79	Feasibility of using a smart unobtrusive wearable system for the autonomic characterisation of endurance trail runners. , 2017, , .		0
80	Algorithms for epilepsy monitoring. , 2020, , 351-359.		0
81	Subjects with different hypnotizability scores exhibit different heartbeat-evoked potentials during sleep. , 2020, , .		0
82	Success stories from consumer technology - helping and saving lives. , 2021, , .		0
83	Knowledge-Based QRS Detection performed by a Cascade of Moving Average Filters. , 0, , .		0
84	Automatic Detection of Characteristic Waves in Electrocardiogram. , 0, , .		0