

Lucia Billeci

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,450
citations

22
h-index

35
g-index

88
ext. papers

1,902
ext. citations

3.9
avg, IF

4.68
L-index

#	Paper	IF	Citations
75	Electronic Nose and Tongue for Assessing Human Microbiota. <i>Chemosensors</i> , 2022 , 10, 85	4	0
74	A randomized controlled trial into the effects of probiotics on electroencephalography in preschoolers with autism.. <i>Autism</i> , 2022 , 13623613221082710	6.6	0
73	Music Modulates Autonomic Nervous System Activity in Human Fetuses.. <i>Frontiers in Medicine</i> , 2022 , 9, 857591	4.9	
72	A Machine Learning Application to Predict Early Lung Involvement in Scleroderma: A Feasibility Evaluation. <i>Diagnostics</i> , 2021 , 11,	3.8	4
71	Healthy aging: the INTECMAN project. <i>Aging Clinical and Experimental Research</i> , 2021 , 33, 2011-2015	4.8	2
70	QRS Detection Based on Medical Knowledge and Cascades of Moving Average Filters. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6995	2.6	2
69	Wearable Sensors for Assessing the Role of Olfactory Training on the Autonomic Response to Olfactory Stimulation. <i>Sensors</i> , 2021 , 21,	3.8	8
68	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	9.9	10
67	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,	3.4	2
66	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	2.4	5
65	Can Machine Learning Predict Stress Reduction Based on Wearable Sensors Data Following Relaxation at Workplace? A Pilot Study. <i>Processes</i> , 2020 , 8, 448	2.9	4
64	Algorithms for epilepsy monitoring 2020 , 351-359		
63	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	2.9	6
62	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	5	28
61	"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,	3.4	4
60	Electronic Nose as a Novel Method for Diagnosing Cancer: A Systematic Review. <i>Biosensors</i> , 2020 , 10,	5.9	19
59	Contextual priors do not modulate action prediction in children with autism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191319	4.4	13

58	MicroRNA Cross-Involvement in Autism Spectrum Disorders and Atopic Dermatitis: A Literature Review. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	21
57	Autonomic Nervous System Response during Light Physical Activity in Adolescents with Anorexia Nervosa Measured by Wearable Devices. <i>Sensors</i> , 2019 , 19,	3.8	10
56	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,	5.1	5
55	An Innovative, Unobtrusive Approach to Investigate Smartphone Interaction in Nonaddicted Subjects Based on Wearable Sensors: A Pilot Study. <i>Medicina (Lithuania)</i> , 2019 , 55,	3.1	11
54	Sympathetic arousal in children with oppositional defiant disorder and its relation to emotional dysregulation. <i>Journal of Affective Disorders</i> , 2019 , 257, 207-213	6.6	7
53	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	4.9	7
52	A Machine Learning Approach for Epileptic Seizure Prediction and Early Intervention. <i>Biosystems and Biorobotics</i> , 2019 , 972-976	0.2	2
51	Autistic traits impact on olfactory processing in adolescent girls with Anorexia Nervosa restricting type. <i>Psychiatry Research</i> , 2019 , 274, 20-26	9.9	12
50	Wearable Sensors to Characterize the Autonomic Nervous System Correlates of Food-Like Odors Perception: A Pilot Study. <i>Electronics (Switzerland)</i> , 2019 , 8, 1481	2.6	8
49	Comparative Evaluation of the Autonomic Response to Cognitive and Sensory Stimulations through Wearable Sensors. <i>Sensors</i> , 2019 , 19,	3.8	6
48	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,	3.4	1
47	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	5.2	12
46	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	4.7	22
45	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	3	19
44	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	3.6	8
43	Heart Rate Variability During a Joint Attention Task in Toddlers With Autism Spectrum Disorders. <i>Frontiers in Physiology</i> , 2018 , 9, 467	4.6	29
42	Olfactory Testing in Frontotemporal Dementia: A Literature Review. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2018 , 33, 342-352	2.5	9
41	Correction: Billeci, L.; et al. Automatic Detection of Atrial Fibrillation and Other Arrhythmias in ECG Recordings Acquired by a Smartphone Device. <i>Electronics</i> 2018 , 7, 199. <i>Electronics (Switzerland)</i> , 2018 , 7, 248	2.6	

40	Automatic Detection of Atrial Fibrillation and Other Arrhythmias in ECG Recordings Acquired by a Smartphone Device. <i>Electronics (Switzerland)</i> , 2018 , 7, 199	2.6	8
39	Patient-specific seizure prediction based on heart rate variability and recurrence quantification analysis. <i>PLoS ONE</i> , 2018 , 13, e0204339	3.7	39
38	[Formula: see text]Olfaction in autism spectrum disorders: A systematic review. <i>Child Neuropsychology</i> , 2017 , 23, 1-25	2.7	46
37	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	7	14
36	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	7	38
35	Omalizumab for the Treatment of Chronic Idiopathic Urticaria: Systematic Review of the Literature. <i>Pharmacotherapy</i> , 2017 , 37, 464-480	5.8	36
34	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	6.8	12
33	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	4.9	28
32	Detection of AF and Other Rhythms Using RR Variability and ECG Spectrum Measures 2017 ,		3
31	Olfactory Processing in Male Children with Autism: Atypical Odor Threshold and Identification. <i>Journal of Autism and Developmental Disorders</i> , 2017 , 47, 3243-3251	4.6	22
30	The soft computing-based approach to investigate allergic diseases: a systematic review. <i>Clinical and Molecular Allergy</i> , 2017 , 15, 10	3.7	9
29	A Combined Independent Source Separation and Quality Index Optimization Method for Fetal ECG Extraction From Abdominal Maternal Leads. <i>Sensors</i> , 2017 , 17,	3.8	13
28	A systematic review of the association between allergic asthma and autism. <i>Minerva Pediatrics</i> , 2017 , 69, 538-550	1.5	10
27	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	4.2	91
26	A Novel Application for Cognitive Evaluation in Mountain Ultramarathons: Olfactory Assessment. <i>Wilderness and Environmental Medicine</i> , 2016 , 27, 131-5	1.4	3
25	Cognitive training modifies frequency EEG bands and neuropsychological measures in Rett syndrome. <i>Research in Developmental Disabilities</i> , 2016 , 53-54, 73-85	2.7	33
24	Rehabilitative Interventions and Brain Plasticity in Autism Spectrum Disorders: Focus on MRI-Based Studies. <i>Frontiers in Neuroscience</i> , 2016 , 10, 139	5.1	21
23	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	5.1	26

22	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	5.1	43
21	GOLIAH: A Gaming Platform for Home-Based Intervention in Autism - Principles and Design. <i>Frontiers in Psychiatry</i> , 2016 , 7, 70	5	24
20	Autism and social robotics: A systematic review. <i>Autism Research</i> , 2016 , 9, 165-83	5.1	194
19	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	8.6	36
18	Reply to Fluegge: Association Between Atopic Dermatitis and Autism Spectrum Disorders: A Systematic Review. <i>American Journal of Clinical Dermatology</i> , 2016 , 17, 189-90	7.1	2
17	Neurophysiological and Behavioural Variables in Cognitive Impairment: Towards a Personalised Monitoring System. <i>Biosystems and Biorobotics</i> , 2015 , 407-417	0.2	1
16	Association Between Atopic Dermatitis and Autism Spectrum Disorders: A Systematic Review. <i>American Journal of Clinical Dermatology</i> , 2015 , 16, 371-88	7.1	32
15	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	3.6	18
14	Autism and lack of D3 vitamin: A systematic review. <i>Research in Autism Spectrum Disorders</i> , 2014 , 8, 1685-1698	13	
13	An efficient unsupervised fetal QRS complex detection from abdominal maternal ECG. <i>Physiological Measurement</i> , 2014 , 35, 1607-19	2.9	53
12	ECG and GSR measure and analysis using wearable systems: Application in anorexia nervosa adolescents 2013 ,		6
11	Reciprocity in interaction: a window on the first year of life in autism. <i>Autism Research & Treatment</i> , 2013 , 2013, 705895	3.2	22
10	Using brain connectivity measure of EEG synchronostates for discriminating typical and Autism Spectrum Disorder 2013 ,		8
9	On the application of quantitative EEG for characterizing autistic brain: a systematic review. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 442	3.3	53
8	NEuronMORphological analysis tool: open-source software for quantitative morphometrics. <i>Frontiers in Neuroinformatics</i> , 2013 , 7, 2	3.9	21
7	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	2.9	4
6	A personal monitoring architecture to detect muscular fatigue in elderly. <i>Neuromuscular Disorders</i> , 2012 , 22 Suppl 3, S192-7	2.9	9
5	White matter connectivity in children with autism spectrum disorders: a tract-based spatial statistics study. <i>BMC Neurology</i> , 2012 , 12, 148	3.1	85

4	Development and evaluation of a social robot platform for therapy in autism. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 4515-8	0.9	24
3	The FACE of autism 2010 ,		38
2	Automated extraction and classification of dynamic metrical features of morphological development in dissociated Purkinje neurons. <i>Journal of Neuroscience Methods</i> , 2010 , 185, 315-24	3	5
1	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, 447-64	1.6	5