

# Alberto Greco

## 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.

78  
papers

1,098  
citations

16  
h-index

31  
g-index

85  
ext. papers

1,475  
ext. citations

3.1  
avg. IF

4.72  
L-index

#	Paper	IF	Citations
78	Reliability of Pulse Rate Variability in Elderly Men and Women: an Application of Cross-Mapping Approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 492-495</i>	0.9	
77	Linear and non linear measures of pupil size as a function of hypnotizability. <i>Scientific Reports, 2021, 11, 5196</i>	4.9	1
76	Quantifying multidimensional control mechanisms of cardiovascular dynamics during multiple concurrent stressors. <i>Medical and Biological Engineering and Computing, 2021, 59, 775-785</i>	3.1	
75	Towards a model of arousal change after affective word pronunciation based on electrodermal activity and speech analysis. <i>Biomedical Signal Processing and Control, 2021, 67, 102517</i>	4.9	1
74	Promises and trust in human-robot interaction. <i>Scientific Reports, 2021, 11, 9687</i>	4.9	9
73	Brain Dynamics During Arousal-Dependent Pleasant/Unpleasant Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect. <i>IEEE Transactions on Affective Computing, 2021, 12, 417-428</i>	5.7	5
72	Increased functional connectivity within alpha and theta frequency bands in dysphoria: A resting-state EEG study. <i>Journal of Affective Disorders, 2021, 281, 199-207</i>	6.6	6
71	Acute stress state classification based on electrodermal activity modeling. <i>IEEE Transactions on Affective Computing, 2021, 1-1</i>	5.7	8
70	Using blood data for the differential diagnosis and prognosis of motor neuron diseases: a new dataset for machine learning applications. <i>Scientific Reports, 2021, 11, 3371</i>	4.9	4
69	Linear and Nonlinear Quantitative EEG Analysis during Neutral Hypnosis following an Opened/Closed Eye Paradigm. <i>Symmetry, 2021, 13, 1423</i>	2.7	0
68	Bioelectric Impedance Analysis Test Improves the Detection of Prostate Cancer in Biopsy Candidates: A Multifeature Decision Support System. <i>Frontiers in Oncology, 2021, 11, 555277</i>	5.3	0
67	Parasympathetic-Sympathetic Causal Interactions Assessed by Time-Varying Multivariate Autoregressive Modeling of Electrodermal Activity and Heart-Rate-Variability. <i>IEEE Transactions on Biomedical Engineering, 2021, 68, 3019-3028</i>	5	1
66	Discriminating Stress From Cognitive Load Using Contactless Thermal Imaging Devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 608-611</i>	0.9	0
65	Assessing the Quality of Heart Rate Variability Estimated from Wrist and Finger PPG: A Novel Approach Based on Cross-Mapping Method. <i>Sensors, 2020, 20,</i>	3.8	11
64	Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge. <i>Scientific Reports, 2020, 10, 5406</i>	4.9	27
63	A preliminary study on parasympathetic-sympathetic interaction through the analysis of heart rate variability and electrodermal activity <b>2020,</b>		1
62	Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses. <i>Frontiers in Veterinary Science, 2020, 7, 582759</i>	3.1	5

61	Classifying Affective Haptic Stimuli through Gender-Specific Heart Rate Variability Nonlinear Analysis. <i>IEEE Transactions on Affective Computing</i> , <b>2020</b> , 11, 459-469	5.7	5
60	Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 2417-2427	7.2	5
59	Lateralization of directional brain-heart information transfer during visual emotional elicitation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2019</b> , 317, R25-R38	3.2	14
58	Time-Resolved Directional Brain-Heart Interplay Measurement Through Synthetic Data Generation Models. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 1479-1489	4.7	24
57	Assessment of muscle fatigue during isometric contraction using autonomic nervous system correlates. <i>Biomedical Signal Processing and Control</i> , <b>2019</b> , 51, 42-49	4.9	11
56	Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1431	5.1	8
55	Real vs. immersive-virtual emotional experience: Analysis of psycho-physiological patterns in a free exploration of an art museum. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223881	3.7	19
54	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2019</b> , 27, 411-418	4.8	16
53	The Role of Haptic Stimuli on Affective Reading: a Pilot Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 4938-4941	0.9	
52	Emotional Transfer in Human-Horse Interaction: New Perspectives on Equine Assisted Interventions. <i>Animals</i> , <b>2019</b> , 9,	3.1	14
51	Functional Linear and Nonlinear Brain-Heart Interplay during Emotional Video Elicitation: A Maximum Information Coefficient Study. <i>Entropy</i> , <b>2019</b> , 21, 892	2.8	14
50	Assessment of linear and nonlinear/complex heartbeat dynamics in subclinical depression (dysphoria). <i>Physiological Measurement</i> , <b>2018</b> , 39, 034004	2.9	8
49	Analysis of generic coupling between EEG activity and PCO in free breathing and breath-hold tasks using Maximal Information Coefficient (MIC). <i>Scientific Reports</i> , <b>2018</b> , 8, 4492	4.9	9
48	Reliability of Lagged Poincaré Plot Parameters in Ultrashort Heart Rate Variability Series: Application on Affective Sounds. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 741-749	7.2	17
47	Affective communication during bad news consultation. Effect on analogue patients' heart rate variability and recall. <i>Patient Education and Counseling</i> , <b>2018</b> , 101, 1892-1899	3.1	9
46	EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 3060-3063	0.9	6
45	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 231-234	0.9	3
44	Affective computing in virtual reality: emotion recognition from brain and heartbeat dynamics using wearable sensors. <i>Scientific Reports</i> , <b>2018</b> , 8, 13657	4.9	124

43	EEG oscillations during caress-like affective haptic elicitation. <i>Psychophysiology</i> , <b>2018</b> , 55, e13199	4.1	10
42	Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients. <i>Journal of Psychiatric Research</i> , <b>2017</b> , 95, 179-188	5.2	5
41	Monitoring voluntary blink magnitude through a wearable eye-tracking system: A preliminary study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1583-1586	0.9	
40	Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1553-1558	0.9	3
39	Heart rate variability analysis during muscle fatigue due to prolonged isometric contraction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1324-1327	0.9	0
38	Arousal and Valence Recognition of Affective Sounds Based on Electrodermal Activity. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 716-725	4	55
37	On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. <i>International Journal of Social Robotics</i> , <b>2017</b> , 9, 87-95	4	9
36	Nonlinear analysis of heart rate variability for the assessment of Dysphoria. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3170-3173	0.9	
35	Validation of instantaneous bispectral high-frequency power of heartbeat dynamics as a marker of cardiac vagal activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3765-3768	0.9	1
34	Muscle fatigue assessment through electrodermal activity analysis during isometric contraction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 398-401	0.9	1
33	Recognition of affective haptic stimuli conveyed by different fabrics using EEG-based sparse SVM <b>2017</b> ,		2
32	Instantaneous Assessment of Hedonic Olfactory Perception Using Heartbeat Nonlinear Dynamics: a Preliminary Study <b>2017</b> ,		3
31	Force/Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2016</b> , 1-10	4.1	15
30	Advances in Electrodermal Activity Processing with Applications for Mental Health <b>2016</b> ,		29
29	Electrodermal Phenomena and Recording Techniques <b>2016</b> , 1-17		1
28	Emotions and Mood States: Modeling, Elicitation, and Recognition <b>2016</b> , 45-54		
27	Experimental Applications on Multi-Sensory Affective Stimulation <b>2016</b> , 55-109		
26	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 399-402	0.9	4

25	Exploratory analysis of nonlinear coupling between EEG global field power and end-tidal carbon dioxide in free breathing and breath-hold tasks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 729-731</i>	0.9	1
24	On the pleasantness of a haptic stimulation: how different textures can be recognized through heart rate variability nonlinear analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3710-3712</i>	0.9	1
23	Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4519-4522</i>	0.9	7
22	cvxEDA: A Convex Optimization Approach to Electrodermal Activity Processing. <i>IEEE Transactions on Biomedical Engineering, 2016, 63, 797-804</i>	5	145
21	Modeling for the Analysis of the EDA <b>2016</b> , 19-33		1
20	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. <i>Electronics (Switzerland), 2016, 5, 46</i>	2.6	25
19	Valence-dependent changes in visual arousing elicitation: an exploratory study in EEG gamma oscillations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4555-4558</i>	0.9	1
18	Investigating mechanical properties of a fabric-based affective haptic display through electrodermal activity analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 107-110</i>	0.9	
17	Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 298-301</i>	0.9	8
16	Electroencephalographic spectral correlates of caress-like affective haptic stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 4733-6</i>	0.9	3
15	Can a Humanoid Face be Expressive? A Psychophysiological Investigation. <i>Frontiers in Bioengineering and Biotechnology, 2015, 3, 64</i>	5.8	23
14	. <i>IEEE Transactions on Affective Computing, 2015, 6, 385-394</i>	5.7	108
13	Brain dynamics during emotion elicitation in healthy subjects: An EEG study <b>2015</b> ,		2
12	Electrodermal activity analysis during affective haptic elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 5777-80</i>	0.9	10
11	On the tridimensional estimation of the gaze point by a stereoscopic wearable eye tracker. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 2283-6</i>	0.9	2
10	Arousal recognition system based on heartbeat dynamics during auditory elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 6110-3</i>	0.9	2
9	. <i>IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1505-1517</i>	6.1	78
8	Inference of human affective states from psychophysiological measurements extracted under ecologically valid conditions. <i>Frontiers in Neuroscience, 2014, 8, 286</i>	5.1	21

7	A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders <b>2014</b> ,		12
6	Electrodermal activity in bipolar patients during affective elicitation. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1865-73	7.2	60
5	Electrodermal activity processing: a convex optimization approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2290-3	0.9	15
4	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis <b>2012</b> ,		4
3	On the deconvolution analysis of electrodermal activity in bipolar patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 6691-4	0.9	30
2	Robotic Social Therapy on Children with Autism: Preliminary Evaluation through Multi-parametric Analysis <b>2012</b> ,		9
1	Investigating Phasic Activity of Time-Varying High-Order Spectra: A Heartbeat Dynamics Study During Cold-Pressure Test		2