

Giovanni Improta

List of Publications by Citations

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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.

99
papers

1,774
citations

26
h-index

34
g-index

116
ext. papers

2,490
ext. citations

2.9
avg, IF

5.49
L-index

#	Paper	IF	Citations
99	Improving performances of the knee replacement surgery process by applying DMAIC principles. <i>Journal of Evaluation in Clinical Practice</i> , 2017 , 23, 1401-1407	2.5	61
98	The application of Lean Six Sigma methodology to reduce the risk of healthcare-associated infections in surgery departments. <i>Journal of Evaluation in Clinical Practice</i> , 2017 , 23, 530-539	2.5	52
97	Preliminary focus on the mechanical and antibacterial activity of a PMMA-based bone cement loaded with gold nanoparticles. <i>Bioactive Materials</i> , 2017 , 2, 156-161	16.7	49
96	Lean Six Sigma: a new approach to the management of patients undergoing prosthetic hip replacement surgery. <i>Journal of Evaluation in Clinical Practice</i> , 2015 , 21, 662-72	2.5	47
95	Lean thinking to improve emergency department throughput at AORN Cardarelli hospital. <i>BMC Health Services Research</i> , 2018 , 18, 914	2.9	47
94	Lean Six Sigma in healthcare. <i>TQM Journal</i> , 2019 , 31, 526-540	3.4	45
93	Use of the AHP methodology in system dynamics: Modelling and simulation for health technology assessments to determine the correct prosthesis choice for hernia diseases. <i>Mathematical Biosciences</i> , 2018 , 299, 19-27	3.9	43
92	Machine learning analysis of MRI-derived texture features to predict placenta accreta spectrum in patients with placenta previa. <i>Magnetic Resonance Imaging</i> , 2019 , 64, 71-76	3.3	42
91	Prediction of Tumor Grade and Nodal Status in Oropharyngeal and Oral Cavity Squamous-cell Carcinoma Using a Radiomic Approach. <i>Anticancer Research</i> , 2020 , 40, 271-280	2.3	42
90	Reducing the risk of healthcare-associated infections through Lean Six Sigma: The case of the medicine areas at the Federico II University Hospital in Naples (Italy). <i>Journal of Evaluation in Clinical Practice</i> , 2018 , 24, 338-346	2.5	37
89	Analytic Hierarchy Process (AHP) in Dynamic Configuration as a Tool for Health Technology Assessment (HTA): The Case of Biosensing Optoelectronics in Oncology. <i>International Journal of Information Technology and Decision Making</i> , 2019 , 18, 1533-1550	2.8	36
88	The use of MSAP reveals epigenetic diversity of the invasive clonal populations of <i>Arundo donax</i> L. <i>PLoS ONE</i> , 2019 , 14, e0215096	3.7	35
87	Fuzzy logic-based clinical decision support system for the evaluation of renal function in post-Transplant Patients. <i>Journal of Evaluation in Clinical Practice</i> , 2020 , 26, 1224-1234	2.5	34
86	Frequency and Time Domain Analysis of Foetal Heart Rate Variability with Traditional Indexes: A Critical Survey. <i>Computational and Mathematical Methods in Medicine</i> , 2016 , 2016, 9585431	2.8	34
85	Agile Six Sigma in Healthcare: Case Study at Santobono Pediatric Hospital. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	33
84	Long-term clinical results and MRI changes after autologous chondrocyte implantation in the knee of young and active middle aged patients. <i>Journal of Orthopaedics and Traumatology</i> , 2016 , 17, 55-62	5	33
83	Using gait analysis' parameters to classify Parkinsonism: A data mining approach. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 180, 105033	6.9	33

82	Software for computerised analysis of cardiocographic traces. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 124, 121-37	6.9	32
81	Genetic characterization, micropropagation, and potential use for arsenic phytoremediation of <i>Dittrichia viscosa</i> (L.) Greuter. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 148, 675-683	7	32
80	Lean Six Sigma approach to reduce LOS through a diagnostic-therapeutic-assistance path at A.O.R.N. A. Cardarelli. <i>TQM Journal</i> , 2019 , 31, 657-672	3.4	31
79	Using fuzzy logic for improving clinical daily-care of ßthalassemia patients 2017 ,		28
78	Application of data mining in a cohort of Italian subjects undergoing myocardial perfusion imaging at an academic medical center. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 189, 105343	6.9	28
77	Health technology assessment (HTA) of optoelectronic biosensors for oncology by analytic hierarchy process (AHP) and Likert scale. <i>BMC Medical Research Methodology</i> , 2019 , 19, 140	4.7	26
76	Cost-Effectiveness and Budget Impact of Emicizumab Prophylaxis in Haemophilia A Patients with Inhibitors. <i>Thrombosis and Haemostasis</i> , 2020 , 120, 216-228	7	26
75	Effects of Zinc Pollution and Compost Amendment on the Root Microbiome of a Metal Tolerant Poplar Clone. <i>Frontiers in Microbiology</i> , 2020 , 11, 1677	5.7	26
74	Fast track surgery for knee replacement surgery: a lean six sigma approach. <i>TQM Journal</i> , 2020 , 32, 461-474	3.4	26
73	The application of six sigma to reduce the pre-operative length of hospital stay at the hospital Antonio Cardarelli. <i>International Journal of Lean Six Sigma</i> , 2019 , 11, 555-576	4.6	26
72	Combination Design of Time-Dependent Magnetic Field and Magnetic Nanocomposites to Guide Cell Behavior. <i>Nanomaterials</i> , 2020 , 10,	5.4	25
71	A Further Analysis on Ti6Al4V Lattice Structures Manufactured by Selective Laser Melting. <i>Journal of Healthcare Engineering</i> , 2019 , 2019, 3212594	3.7	25
70	MRI Radiomics for the Prediction of Fuhrman Grade in Clear Cell Renal Cell Carcinoma: a Machine Learning Exploratory Study. <i>Journal of Digital Imaging</i> , 2020 , 33, 879-887	5.3	24
69	A Simulation Approach for Agile Production Logic Implementation in a Hospital Emergency Unit. <i>Communications in Computer and Information Science</i> , 2015 , 623-634	0.3	23
68	An Innovative Contribution to Health Technology Assessment. <i>Studies in Computational Intelligence</i> , 2012 , 127-131	0.8	23
67	Regression Models to Study the Total LOS Related to Valvuloplasty.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	22
66	Improving Healthcare Using Cognitive Computing Based Software: An Application in Emergency Situation. <i>Lecture Notes in Computer Science</i> , 2012 , 477-490	0.9	21
65	Air quality biomonitoring through <i>Olea europaea</i> L.: The study case of "Land of pyres". <i>Chemosphere</i> , 2021 , 282, 131052	8.4	21

64	A health technology assessment between two pharmacological therapies through Six Sigma: the case study of bone cancer. <i>TQM Journal</i> , 2020 , 32, 1507-1524	3.4	20
63	Management of the Diabetic Patient in the Diagnostic Care Pathway. <i>IFMBE Proceedings</i> , 2021 , 784-792	0.2	19
62	Symbolic dynamic and frequency analysis in foetal monitoring 2014 ,		18
61	HTA (Health Technology Assessment): A Means to Reach Governance Goals and to Guide Health Politics on the Topic of Clinical Risk Management. <i>IFMBE Proceedings</i> , 2009 , 166-169	0.2	18
60	Classifying the type of delivery from cardiotocographic signals: A machine learning approach. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 196, 105712	6.9	18
59	A Hybrid Analytic Hierarchy Process and Likert Scale Approach for the Quality Assessment of Medical Education Programs. <i>Mathematics</i> , 2022 , 10, 1426	2.3	18
58	DMAIC Approach for the Reduction of Healthcare-Associated Infections in the Neonatal Intensive Care Unit of the University Hospital of Naples Benedico II <i>IFMBE Proceedings</i> , 2021 , 414-423	0.2	17
57	Is It Possible to Predict the Length of Stay of Patients Undergoing Hip-Replacement Surgery?. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19, 6219	4.6	17
56	Feasibility of Machine Learning in Predicting Features Related to Congenital Nystagmus. <i>IFMBE Proceedings</i> , 2020 , 907-913	0.2	16
55	Efficacy of Machine Learning in Predicting the Kind of Delivery by Cardiotocography. <i>IFMBE Proceedings</i> , 2020 , 793-799	0.2	16
54	Lean Six Sigma Approach for Reducing Length of Hospital Stay for Patients with Femur Fracture in a University Hospital. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	16
53	Postoperative complications after removal of pleomorphic adenoma from the parotid gland: A long-term follow up of 297 patients from 2002 to 2016 and a review of publications. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2019 , 57, 998-1002	1.4	15
52	Early neutropenia with thrombocytopenia following alemtuzumab treatment for multiple sclerosis: case report and review of literature. <i>Clinical Neurology and Neurosurgery</i> , 2018 , 175, 134-136	2	15
51	Application of Supply Chain Management at Drugs Flow in an Italian Hospital District. <i>Journal of Physics: Conference Series</i> , 2021 , 1828, 012081	0.3	14
50	Predictive Analysis of Healthcare-Associated Blood Stream Infections in the Neonatal Intensive Care Unit Using Artificial Intelligence: A Single Center Study.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	14
49	Evaluation of Medical Training Courses Satisfaction: Qualitative Analysis and Analytic Hierarchy Process. <i>IFMBE Proceedings</i> , 2021 , 518-526	0.2	13
48	Agreement between Opal and G-Walk Wearable Inertial Systems in Gait Analysis on Normal and Pathological Subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 3286-3289	0.9	13
47	Machine Learning and Lean Six Sigma to Assess How COVID-19 Has Changed the Patient Management of the Complex Operative Unit of Neurology and Stroke Unit: A Single Center Study.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	13

46	Implementation of lean practices to reduce healthcare associated infections. <i>International Journal of Healthcare Technology and Management</i> , 2020 , 18, 51	0.3	12
45	Assessment of proteinuria level in nephrology patients using a machine learning approach 2021 ,		12
44	Is It Possible to Predict Cardiac Death?. <i>IFMBE Proceedings</i> , 2020 , 847-854	0.2	12
43	Distinguishing Functional from Non-functional Pituitary Macroadenomas with a Machine Learning Analysis. <i>IFMBE Proceedings</i> , 2020 , 1822-1829	0.2	12
42	Improving Prosthetic Selection and Predicting BMD from Biometric Measurements in Patients Receiving Total Hip Arthroplasty. <i>Diagnostics</i> , 2020 , 10,	3.8	12
41	A Six Sigma DMAIC methodology as a support tool for Health Technology Assessment of two antibiotics. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 3469-3490	2.1	11
40	Classifying Different Stages of Parkinson Disease Through Random Forests. <i>IFMBE Proceedings</i> , 2020 , 1155-1162	0.2	9
39	Machine learning can detect the presence of Mild cognitive impairment in patients affected by Parkinson Disease 2020 ,		9
38	Application of DMAIC Cycle and Modeling as Tools for Health Technology Assessment in a University Hospital. <i>Journal of Healthcare Engineering</i> , 2021 , 2021, 8826048	3.7	9
37	Efficiency measures of emergency departments: an Italian systematic literature review. <i>BMJ Open Quality</i> , 2021 , 10,	1.9	9
36	Remission of early persistent cladribine-induced neutropenia after filgrastim therapy in a patient with Relapsing - Remitting Multiple Sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2020 , 43, 102151	4	8
35	A Clinical Decision Support System based on fuzzy rules and classification algorithms for monitoring the physiological parameters of type-2 diabetic patients. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 2653-2674	2.1	8
34	Computerized Cardiocography: A Software to Generate Synthetic Signals. <i>Journal of Health & Medical Informatics</i> , 2014 , 05,		6
33	2020 ,		6
32	Machine learning models for the prediction of acuity and variability of eye-positioning using features extracted from oculography. <i>Health and Technology</i> , 2020 , 10, 961-968	2.1	6
31	Postoperative Management of Zygomatic Arch Fractures: In-House Rapid Prototyping System for the Manufacture of Protective Facial Shields. <i>Journal of Craniofacial Surgery</i> , 2019 , 30, 2057-2060	1.2	6
30	Implementation and validation of a new method to model voluntary departures from emergency departments. Running Title: Modeling Voluntary departures from emergency departments. <i>Mathematical Biosciences and Engineering</i> , 2020 , 18, 253-273	2.1	6
29	Skull base reconstruction after endoscopic endonasal surgery: new strategies for raising the dam 2019 ,		5

28	Implementation of lean practices to reduce healthcare associated infections. <i>International Journal of Healthcare Technology and Management</i> , 2020 , 18, 51	0.3	5
27	Novel concepts and strategies in skull base reconstruction after endoscopic endonasal surgery. <i>Acta IMEKO (2012)</i> , 2020 , 9, 67	2	5
26	Health technology assessment through Six Sigma Methodology to assess cemented and uncemented protheses in total hip arthroplasty. <i>European Journal of Translational Myology</i> , 2021 , 31,	2.1	5
25	From 3D Hierarchical Scaffolds for Tissue Engineering to Advanced Hydrogel-Based and Complex Devices for in situ Cell or Drug Release. <i>Procedia CIRP</i> , 2016 , 49, 72-75	1.8	5
24	Prognostic decision support using symbolic dynamics in CTG monitoring. <i>Studies in Health Technology and Informatics</i> , 2013 , 186, 140-4	0.5	5
23	Reverse Engineering and Additive Manufacturing towards the design of 3D advanced scaffolds for hard tissue regeneration 2019 ,		4
22	A novel approach to estimate the upper limb reaching movement in three-dimensional space. <i>Informatics in Medicine Unlocked</i> , 2019 , 15, 100155	5.3	4
21	Health Technology Assessment: An Essential Approach to Guide Clinical Governance Choices on Risk Management 2012 ,		4
20	2013 ,		4
19	Strategies for the design of additively manufactured nanocomposite scaffolds for hard tissue regeneration. <i>Acta IMEKO (2012)</i> , 2020 , 9, 53	2	4
18	A novel shiny platform for the geo-spatial analysis of large amount of patient data.		3
17	A Fuzzy Inference System for the Assessment of Indoor Air Quality in an Operating Room to Prevent Surgical Site Infection.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	3
16	Additive manufacturing and tissue engineering to improve outcomes in breast reconstructive surgery 2019 ,		2
15	Ecotype-Level Genetic Biodiversity of Five Italian Traditional Crops. <i>Scientifica</i> , 2019 , 2019, 4652769	2.6	2
14	Effect of topical antiinflammatory drugs on mechanical behavior of rabbit cornea. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017 , 15, e142-e148	1.8	2
13	Malignant tumours of the parotid gland: management of the neck (including the clinically negative neck) and a literature review. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2021 , 59, 665-671	1.4	2
12	Analyzing the Role of Magnetic Features in Additive Manufactured Scaffolds for Enhanced Bone Tissue Regeneration. <i>Macromolecular Symposia</i> , 2021 , 396, 2000314	0.8	2
11	Health technology assessment through the six sigma approach in abdominoplasty: Scalpel vs electrosurgery. <i>Medical Engineering and Physics</i> , 2021 , 93, 27-34	2.4	2

10	A Health Technology Assessment in Maxillofacial Cancer Surgery by Using the Six Sigma Methodology. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
9	Comparing Two Approaches for Thyroidectomy: A Health Technology Assessment through DMAIC Cycle.. <i>Healthcare (Switzerland)</i> , 2022 , 10,	3.4	1
8	Soft Transducer for Patient's Vitals Telemonitoring with Deep Learning-Based Personalized Anomaly Detection.. <i>Sensors</i> , 2022 , 22,	3.8	1
7	Resolution Resampling of Ultrasound Images in Placenta Previa Patients: Influence on Radiomics Data Reliability and Usefulness for Machine Learning. <i>IFMBE Proceedings</i> , 2021 , 1011-1018	0.2	1
6	Digital Innovation in Healthcare: A Device with A Method for Monitoring, Managing and Preventing the Risk of Chronic Polypathological Patients. <i>Translational Medicine @ UniSa</i> , 2020 , 21, 61-64	0.5	1
5	The Use of Six Sigma to Assess Two Prostheses for Immediate Breast Reconstruction. <i>IFMBE Proceedings</i> , 2021 , 1112-1120	0.2	1
4	A quantitative analysis of muscular co-activation on EMG signals in spastic patients treated with Botulinum toxin 2020 ,		1
3	Foot and ankle measurements on cone beam weightbearing computed tomography. <i>Journal of Biological Regulators and Homeostatic Agents</i> , 2020 , 34, 23-32. ADVANCES IN MUSCULOSKELETAL DISEASES AND IN	0.7	1
2	EEG-based measurement system for monitoring student engagement in learning 4.0.. <i>Scientific Reports</i> , 2022 , 12, 5857	4.9	1
1	A Comparative Study of Different Administrations of Nebulized Hyaluronic Acid After Endoscopic Endonasal Surgery for Chronic Rhinosinusitis. <i>Indian Journal of Otolaryngology and Head and Neck Surgery</i> , 2020 , 1	0.6	0