

Simona Panunzi

List of Publications by Year in descending order

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93
papers

5,568
citations

172207

29
h-index

79541

73
g-index

96
all docs

96
docs citations

96
times ranked

6115
citing authors

#	ARTICLE	IF	CITATIONS
1	Bariatric Surgery versus Conventional Medical Therapy for Type 2 Diabetes. <i>New England Journal of Medicine</i> , 2012, 366, 1577-1585.	13.9	1,617
2	Bariatric metabolic surgery versus conventional medical treatment in obese patients with type 2 diabetes: 5 year follow-up of an open-label, single-centre, randomised controlled trial. <i>Lancet</i> , The, 2015, 386, 964-973.	6.3	998
3	Italian multicenter study on complications of laparoscopic myomectomy. <i>Journal of Minimally Invasive Gynecology</i> , 2007, 14, 453-462.	0.3	273
4	Metabolic surgery versus conventional medical therapy in patients with type 2 diabetes: 10-year follow-up of an open-label, single-centre, randomised controlled trial. <i>Lancet</i> , The, 2021, 397, 293-304.	6.3	272
5	Predictors of Remission of Diabetes Mellitus in Severely Obese Individuals Undergoing Bariatric Surgery. <i>Annals of Surgery</i> , 2015, 261, 459-467.	2.1	169
6	Determinants of Diabetes Remission and Glycemic Control After Bariatric Surgery. <i>Diabetes Care</i> , 2016, 39, 166-174.	4.3	152
7	Effects of Bilio-Pancreatic Diversion on Diabetic Complications. <i>Diabetes Care</i> , 2011, 34, 561-567.	4.3	136
8	Assessment of Insulin Sensitivity from Measurements in the Fasting State and during an Oral Glucose Tolerance Test in Polycystic Ovary Syndrome and Menopausal Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 1398-1406.	1.8	107
9	The Differential Effect of the Phytoestrogen Genistein on Cardiovascular Risk Factors in Postmenopausal Women: Relationship with the Metabolic Status. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 552-558.	1.8	93
10	Long-term Relapse of Type 2 Diabetes After Roux-en-Y Gastric Bypass: Prediction and Clinical Relevance. <i>Diabetes Care</i> , 2018, 41, 2086-2095.	4.3	90
11	Incidence of Hypoglycemia After Gastric Bypass vs Sleeve Gastrectomy: A Randomized Trial. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 2136-2146.	1.8	81
12	A discrete Single Delay Model for the Intra-Venous Glucose Tolerance Test. <i>Theoretical Biology and Medical Modelling</i> , 2007, 4, 35.	2.1	78
13	Low doses of dexamethasone constantly delivered by autologous erythrocytes slow the progression of lung disease in cystic fibrosis patients. <i>Blood Cells, Molecules, and Diseases</i> , 2004, 33, 57-63.	0.6	76
14	One-Hour Plasma Glucose Identifies Insulin Resistance and β -Cell Dysfunction in Individuals With Normal Glucose Tolerance. <i>Diabetes Care</i> , 2010, 33, 2090-2097.	4.3	76
15	Luenberger-Like Observers for Nonlinear Time-Delay Systems with Application to the Artificial Pancreas: The Attainment of Good Performance. <i>IEEE Control Systems</i> , 2017, 37, 33-49.	1.0	75
16	Qualitative behavior of a family of delay-differential models of the Glucose-Insulin system. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2007, 7, 399-424.	0.5	68
17	Phase II studies on accelerated IMRT in breast carcinoma: Technical comparison and acute toxicity in 332 patients. <i>Radiotherapy and Oncology</i> , 2009, 90, 86-92.	0.3	63
18	Interleukin 1B gene (IL-1B) and interleukin 1 receptor antagonist gene (IL-1RN) polymorphisms in <i>Helicobacter pylori</i> -negative gastric cancer of intestinal and diffuse histotype. <i>Annals of Oncology</i> , 2005, 16, 887-892.	0.6	62

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19	Effect of botulinum toxin antral injection on gastric emptying and weight reduction in obese patients: a pilot study. <i>Alimentary Pharmacology and Therapeutics</i> , 2006, 23, 675-680.	1.9	62
20	Time-Delay Model-Based Control of the Glucose-Insulin System, by Means of a State Observer. <i>European Journal of Control</i> , 2012, 18, 591-606.	1.6	50
21	Association of thymidylate synthase polymorphisms with gastric cancer susceptibility. <i>International Journal of Cancer</i> , 2004, 112, 1010-1014.	2.3	46
22	Low plasma coenzyme Q10 levels as an independent prognostic factor for melanoma progression. <i>Journal of the American Academy of Dermatology</i> , 2006, 54, 234-241.	0.6	46
23	Complexity index (COMIX) and not type of treatment predicts undetected errors in radiotherapy planning and delivery. <i>Radiotherapy and Oncology</i> , 2008, 89, 320-329.	0.3	43
24	l-Folic Acid Supplementation in Healthy Postmenopausal Women: Effect on Homocysteine and Glycolipid Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 4622-4629.	1.8	42
25	Effect of indoor nitrogen dioxide on lung function in urban environment. <i>Environmental Research</i> , 2015, 138, 8-16.	3.7	41
26	Pioglitazone and bariatric surgery are the most effective treatments for non-alcoholic steatohepatitis: A hierarchical network meta-analysis. <i>Diabetes, Obesity and Metabolism</i> , 2021, 23, 980-990.	2.2	41
27	Faecal calprotectin concentrations in untreated coeliac patients. <i>Scandinavian Journal of Gastroenterology</i> , 2007, 42, 957-961.	0.6	39
28	Forward planned intensity modulated radiotherapy (IMRT) for whole breast postoperative radiotherapy. Is it useful? When?. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 213-222.	0.8	38
29	A patient adaptable ECG beat classifier based on neural networks. <i>Applied Mathematics and Computation</i> , 2009, 213, 243-249.	1.4	37
30	The range of time delay and the global stability of the equilibrium for an IVGTT model. <i>Mathematical Biosciences</i> , 2012, 235, 128-137.	0.9	30
31	Comparative efficacy of different weight loss treatments on knee osteoarthritis: A network meta-analysis. <i>Obesity Reviews</i> , 2021, 22, e13230.	3.1	30
32	Advantages of the single delay model for the assessment of insulin sensitivity from the intravenous glucose tolerance test. <i>Theoretical Biology and Medical Modelling</i> , 2010, 7, 9.	2.1	28
33	Model-based control of plasma glycemia: Tests on populations of virtual patients. <i>Mathematical Biosciences</i> , 2014, 257, 2-10.	0.9	28
34	The prognostic role of perioperative allogeneic blood transfusions in gastric cancer patients undergoing curative resection: A systematic review and meta-analysis of non-randomized, adjusted studies. <i>European Journal of Surgical Oncology</i> , 2018, 44, 404-419.	0.5	27
35	Fecal Calprotectin Concentrations in Patients with Small Intestinal Bacterial Overgrowth. <i>Digestive Diseases</i> , 2008, 26, 183-186.	0.8	26
36	Routine OGTT: A Robust Model Including Incretin Effect for Precise Identification of Insulin Sensitivity and Secretion in a Single Individual. <i>PLoS ONE</i> , 2013, 8, e70875.	1.1	25

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37	A mathematical model of the euglycemic hyperinsulinemic clamp. <i>Theoretical Biology and Medical Modelling</i> , 2005, 2, 44.	2.1	22
38	Glucose control by subcutaneous insulin administration: a DDE modelling approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 1471-1476.	0.4	22
39	A Simple, Realistic Stochastic Model of Gastric Emptying. <i>PLoS ONE</i> , 2016, 11, e0153297.	1.1	22
40	Robust closed-loop control of plasma glycemia: A discrete-delay model approach. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2009, 12, 455-468.	0.5	21
41	Radioprotective Effect of Moderate Wine Consumption in Patients With Breast Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1501-1505.	0.4	20
42	Insulin sensitivity depends on the route of glucose administration. <i>Diabetologia</i> , 2020, 63, 1382-1395.	2.9	20
43	Metabolic Reprogramming by Malat1 Depletion in Prostate Cancer. <i>Cancers</i> , 2021, 13, 15.	1.7	20
44	Intensive lifestyle modifications with or without liraglutide 3 mg vs. sleeve gastrectomy: A three-arm non-randomised, controlled, pilot study. <i>Diabetes and Metabolism</i> , 2018, 44, 235-242.	1.4	19
45	Semiglobal Sampled-Data Dynamic Output Feedback Controller for the Glucose-Insulin System. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 16-32.	3.2	16
46	Validation of the French version of the Burn Specific Health Scale-Brief (BSHS-B) questionnaire. <i>Burns</i> , 2016, 42, 1573-1580.	1.1	14
47	A study of the humoral immune response of breast cancer patients to a panel of human tumor antigens identified by phage display. <i>Cancer Detection and Prevention</i> , 2006, 30, 248-256.	2.1	13
48	Tests on a virtual patient for an observer-based, closed-loop control of plasma glycemia. , 2011, , .		13
49	A geometrical approach to the PKPD modelling of inhaled bronchodilators. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2012, 39, 415-428.	0.8	13
50	A new sensitive and accurate model to predict moderate to severe obstructive sleep apnea in patients with obesity. <i>Medicine (United States)</i> , 2019, 98, e16687.	0.4	13
51	A Unifying Organ Model of Pancreatic Insulin Secretion. <i>PLoS ONE</i> , 2015, 10, e0142344.	1.1	12
52	Postoperative Intensity Modulated Radiation Therapy in High Risk Prostate Cancer: A Dosimetric Comparison. <i>Medical Dosimetry</i> , 2011, 36, 231-239.	0.4	11
53	A revised Sorensen model: Simulating glycemic and insulinemic response to oral and intra-venous glucose load. <i>PLoS ONE</i> , 2020, 15, e0237215.	1.1	11
54	Observer-based glucose control via subcutaneous insulin administration. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 107-112.	0.4	10

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55	Robust global nonlinear sampled-data regulator for the Glucose-Insulin system. , 2017, , .		9
56	Construction of predictive promoter models on the example of antibacterial response of human epithelial cells. Theoretical Biology and Medical Modelling, 2005, 2, 2.	2.1	8
57	Approximate linear confidence and curvature of a kinetic model of dodecanedioic acid in humans. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E915-E922.	1.8	8
58	A comparison among three maximal mathematical models of the glucose-insulin system. PLoS ONE, 2021, 16, e0257789.	1.1	8
59	Robust closed-loop control of plasma glycemia: A discrete-delay model approach. , 2008, , .		7
60	Observer-based closed-loop control of plasma glycemia. , 2009, , .		6
61	The Neonatal Environment and Health Outcomes (NEHO) Birth Cohort Study: Behavioral and Socioeconomic Characteristics and Drop-Out Rate from a Longitudinal Birth Cohort in Three Industrially Contaminated Sites in Southern Italy. International Journal of Environmental Research and Public Health, 2021, 18, 1252.	1.2	6
62	Effects of Transoral Gastroplasty on Glucose Homeostasis in Obese Subjects. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 1901-1910.	1.8	5
63	Mathematical Modeling of Renal Tubular Glucose Absorption after Glucose Load. PLoS ONE, 2014, 9, e86963.	1.1	5
64	Local sampled-data control of the glucose-insulin system. , 2017, , .		4
65	Measuring Risk Perception in Pregnant Women in Heavily Polluted Areas: A New Methodological Approach from the NEHO Birth Cohort. International Journal of Environmental Research and Public Health, 2021, 18, 10616.	1.2	4
66	Closed-loop glucose control: Application to the Euglycemic Hyperinsulinemic Clamp. , 2013, , .		3
67	Regulation of the Human Plasma Glycemia by Means of Glucose Measurements and Subcutaneous Insulin Administration. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 524-529.	0.4	3
68	Simulation of insulin regimen and glucose profiles in Type 1 diabetic patient. , 2014, , .		3
69	A Stochastic Delay Differential Model of Cerebral Autoregulation. PLoS ONE, 2015, 10, e0118456.	1.1	3
70	An LMI-based controller for the glucose-insulin system. , 2015, , .		3
71	A glycemia-structured population model. Journal of Mathematical Biology, 2016, 73, 39-62.	0.8	3
72	Consistency of compact and extended models of glucose-insulin homeostasis: The role of variable pancreatic reserve. PLoS ONE, 2019, 14, e0211331.	1.1	3

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73	Data-Driven Modeling of Diabetes Progression. Lecture Notes in Bioengineering, 2014, , 165-186.	0.3	3
74	Botulinum toxin in gastric submucosa reduces stimulated HCl production in rats. BMC Gastroenterology, 2003, 3, 26.	0.8	2
75	Digital closed-loop control of plasma glycemia. , 2010, , .		2
76	Effective Control of Glycemia using a Simple Discrete-delay Model. IFAC-PapersOnLine, 2017, 50, 13526-13531.	0.5	2
77	A population approach for the estimation of methylmercury Toxicokinetics in red mullets. Toxicology and Applied Pharmacology, 2021, 428, 115679.	1.3	2
78	Recent Results on Glucose-Insulin Predictions by Means of a State Observer for Time Delay Systems. Lecture Notes in Bioengineering, 2016, , 227-241.	0.3	2
79	Modeling Serum Creatinine in Septic ICU Patients. Cardiovascular Engineering (Dordrecht,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	1.0	1
80	Protocol for a randomised clinical study comparing the effect of Roux-en-Y gastric bypass and sleeve gastrectomy on reactive hypoglycaemia in morbidly obese subjects. BMJ Open, 2012, 2, e002184.	0.8	1
81	Pitfalls in Model Identification: Examples from Glucose-Insulin Modelling. Lecture Notes in Bioengineering, 2014, , 117-129.	0.3	1
82	Modelling and Simulation for Major Incidents. , 2015, , .		1
83	Response to Letter to the Editor: "Incidence of Hypoglycemia After Gastric Bypass vs Sleeve Gastrectomy: A Randomized Trial" Journal of Clinical Endocrinology and Metabolism, 2019, 104, 732-733.	1.8	1
84	DDE Model-Based Control of Glycemia via Sub-cutaneous Insulin Administration. Advances in Delays and Dynamics, 2014, , 229-240.	0.4	1
85	Statistical Modeling in Pharmaceutical Research and Development. , 2006, , 67-102.		0
86	The Differential Effect of the Phytoestrogen Genistein on Cardiovascular Risk Factors in Postmenopausal Women: Relationship With the Metabolic Status. Obstetrical and Gynecological Survey, 2009, 64, 523-524.	0.2	0
87	Final Comment by the Authors. European Journal of Control, 2012, 18, 609.	1.6	0
88	Glucose control with incomplete information. , 2016, , .		0
89	Simulation of Trauma Incidents. Journal of Medical Systems, 2016, 40, 234.	2.2	0
90	Multi-agent system modeling of advection-diffusion-reaction equations. , 2019, , .		0

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91	Rapid and ultra-rapid insulin in glyceimic control. , 2019, , .		0
92	Decision support for medical disasters: Evaluation of the IMPRESS system in the live Palermo demo. International Journal of Disaster Risk Reduction, 2020, 50, 101695.	1.8	0
93	Pharmacoeconomic comparison of ziprasidone with other atypical oral antipsychotic agents in schizophrenia. Farmeconomia E Percorsi Terapeutici, 2011, 12, 29-40.	0.2	0