Dorota Formanowicz

List of Publications by Year in descending order

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63	817	623734	580821
papers	citations	14 h-index	25 g-index

66	66	66	1100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chronic Kidney Disease as Oxidative Stress- and Inflammatory-Mediated Cardiovascular Disease. Antioxidants, 2020, 9, 752.	5.1	133
2	An analysis of the Petri net based model of the human body iron homeostasis process. Computational Biology and Chemistry, 2007, 31, 1-10.	2.3	60
3	Advanced Oxidation Protein Products and Carbonylated Proteins as Biomarkers of Oxidative Stress in Selected Atherosclerosis-Mediated Diseases. BioMed Research International, 2017, 2017, 1-9.	1.9	53
4	Chronic kidney disease-related atherosclerosis - proteomic studies of blood plasma. Proteome Science, 2011, 9, 25.	1.7	45
5	Usefulness of serum interleukin-18 in predicting cardiovascular mortality in patients with chronic kidney disease â€“ systems and clinical approach. Scientific Reports, 2015, 5, 18332.	3.3	42
6	The role of Fenton reaction in ROS-induced toxicity underlying atherosclerosis â€“ modeled and analyzed using a Petri net-based approach. BioSystems, 2018, 165, 71-87.	2.0	27
7	Deeper insight into chronic kidney disease-related atherosclerosis: comparative proteomic studies of blood plasma using 2DE and mass spectrometry. Journal of Translational Medicine, 2015, 13, 20.	4.4	25
8	Relation between Inflammation, Oxidative Stress, and Macronutrient Intakes in Normal and Excessive Body Weight Adolescent Girls with Clinical Features of Polycystic Ovary Syndrome. Nutrients, 2021, 13, 896.	4.1	25
9	Hemojuvelinâ€“hepcidin axis modeled and analyzed using Petri nets. Journal of Biomedical Informatics, 2013, 46, 1030-1043.	4.3	24
10	Petri net based model of the body iron homeostasis. Journal of Biomedical Informatics, 2007, 40, 476-485.	4.3	23
11	Label-Free Quantitative Proteomics Reveals Differences in Molecular Mechanism of Atherosclerosis Related and Non-Related to Chronic Kidney Disease. International Journal of Molecular Sciences, 2016, 17, 631.	4.1	22
12	iTRAQ-based proteomic analysis of plasma reveals abnormalities in lipid metabolism proteins in chronic kidney disease-related atherosclerosis. Scientific Reports, 2016, 6, 32511.	3.3	21
13	Theoretical Studies on the Engagement of Interleukin 18 in the Immuno-Inflammatory Processes Underlying Atherosclerosis. International Journal of Molecular Sciences, 2018, 19, 3476.	4.1	20
14	Some aspects of the anemia of chronic disorders modeled and analyzed by petri net based approach. Bioprocess and Biosystems Engineering, 2011, 34, 581-595.	3.4	19
15	Recognized and Potentially New Biomarkersâ€”Their Role in Diagnosis and Prognosis of Cardiovascular Disease. Medicina (Lithuania), 2021, 57, 701.	2.0	16
16	The Association of Serum Thrombomodulin with Endothelial Injuring Factors in Abdominal Aortic Aneurysm. BioMed Research International, 2017, 2017, 1-10.	1.9	13
17	Transferrin changes in haemodialysed patients. International Urology and Nephrology, 2012, 44, 907-919.	1.4	12
18	A Control-Theoretic Model of Atherosclerosis. International Journal of Molecular Sciences, 2019, 20, 785.	4.1	12

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19	A Role of Inflammation and Immunity in Essential Hypertensionâ€"Modeled and Analyzed Using Petri Nets. International Journal of Molecular Sciences, 2020, 21, 3348.	4.1	12
20	Health-related quality of life assessment among patients with inflammatory bowel diseases after surgery â€“ review. Przeglad Gastroenterologiczny, 2017, 1, 6-16.	0.7	11
21	Preeclampsia with Intrauterine Growth Restriction Generates Morphological Changes in Endothelial Cells Associated with Mitochondrial Swellingâ€"An In Vitro Study. Journal of Clinical Medicine, 2019, 8, 1994.	2.4	11
22	Petri net-based approach to modeling and analysis of selected aspects of the molecular regulation of angiogenesis. PLoS ONE, 2017, 12, e0173020.	2.5	11
23	A Stochastic Petri Net-Based Model of the Involvement of Interleukin 18 in Atherosclerosis. International Journal of Molecular Sciences, 2020, 21, 8574.	4.1	10
24	New insights into the human body iron metabolism analyzed by a Petri net based approach. BioSystems, 2009, 96, 104-113.	2.0	9
25	The study of the influence of micro-environmental signals on macrophage differentiation using a quantitative Petri net based model. Archives of Control Sciences, 2017, 27, 331-349.	1.7	9
26	Systems Approach to Study Associations between OxLDL and Abdominal Aortic Aneurysms. International Journal of Molecular Sciences, 2019, 20, 3909.	4.1	9
27	Mass Spectrometry-Based Lipidomics Reveals Differential Changes in the Accumulated Lipid Classes in Chronic Kidney Disease. Metabolites, 2021, 11, 275.	2.9	9
28	Dietary and Physical Activity Habits in Adolescent Girls with Polycystic Ovary Syndrome (PCOS)-HAstudy. Journal of Clinical Medicine, 2021, 10, 3469.	2.4	9
29	Modeling the process of human body iron homeostasis using a variant of timed Petri nets. Discrete Applied Mathematics, 2009, 157, 2221-2231.	0.9	7
30	Controlling the thickness of the atherosclerotic plaque by statin medication. PLoS ONE, 2020, 15, e0239953.	2.5	7
31	Beneficial Effects of Oral Nutritional Supplements on Body Composition and Biochemical Parameters in Women with Breast Cancer Undergoing Postoperative Chemotherapy: A Propensity Score Matching Analysis. Nutrients, 2021, 13, 3549.	4.1	7
32	Salivary Morning Cortisol as a Potential Predictor for High Academic Stress Level in Dental Students: A Preliminary Study. International Journal of Environmental Research and Public Health, 2022, 19, 3132.	2.6	7
33	The effect of cigarette smoking on endothelial damage and atherosclerosis development â€“ modeled and analyzed using Petri nets. Archives of Control Sciences, 2017, 27, 211-228.	1.7	6
34	Paraoxonase 1 Gene L55M Polymorphism and Paraoxonase 1 Activity in Obstructive Sleep Apnea Patients. Advances in Experimental Medicine and Biology, 2018, 1150, 17-24.	1.6	6
35	Structural analysis of a Petri net model of oxidative stress in atherosclerosis. IET Systems Biology, 2018, 12, 108-117.	1.5	6
36	Selected Aspects of Tobacco-Induced Prothrombotic State, Inflammation and Oxidative Stress: Modeled and Analyzed Using Petri Nets. Interdisciplinary Sciences, Computational Life Sciences, 2019, 11, 373-386.	3.6	6

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37	Selected Atherosclerosis-Related Diseases May Differentially Affect the Relationship between Plasma Advanced Glycation End Products, Receptor sRAGE, and Uric Acid. Journal of Clinical Medicine, 2020, 9, 1416.	2.4	6
38	Association between metabolic and hormonal profile, proinflammatory cytokines in saliva and gingival health in adolescent females with polycystic ovary syndrome. BMC Oral Health, 2021, 21, 193.	2.3	6
39	Control of Cholesterol Metabolism Using a Systems Approach. Biology, 2022, 11, 430.	2.8	6
40	A Petri net based model of oxidative stress in atherosclerosis. Foundations of Computing and Decision Sciences, 2012, 37, 59-78.	1.2	5
41	The relationship between the symptom of fatigue and the functioning of patients with inflammatory bowel diseases after surgery. Przeglad Gastroenterologiczny, 2019, 14, 242-249.	0.7	5
42	Proteomic Profiling of Leukocytes Reveals Dysregulation of Adhesion and Integrin Proteins in Chronic Kidney Disease-Related Atherosclerosis. Journal of Proteome Research, 2021, 20, 3053-3067.	3.7	5
43	Management of High-Risk Atherosclerotic Patients by Statins May Be Supported by Logistic Model of Intima-Media Thickening. Journal of Clinical Medicine, 2021, 10, 2876.	2.4	5
44	An overall view of the process of the regulation of human iron metabolism. Biotechnologia, 2011, 2, 193-207.	0.9	5
45	Insulin Resistance and Urolithiasis as a Challenge for a Dietitian. International Journal of Environmental Research and Public Health, 2022, 19, 7160.	2.6	5
46	Factors Influencing Essential Hypertension and Cardiovascular Disease Modeled and Analyzed using Stochastic Petri Nets. Fundamenta Informaticae, 2018, 160, 143-165.	0.4	3
47	Advanced Oxidation Protein Products and Carbonylated Proteins Levels in Endovascular and Open Repair of an Abdominal Aortic Aneurysm: The Effect of Pre-, Intra-, and Postoperative Treatment. BioMed Research International, 2019, 2019, 1-9.	1.9	3
48	The Crosstalk between SARS-CoV-2 Infection and the RAA System in Essential Hypertensionâ€"Analyses Using Systems Approach. International Journal of Molecular Sciences, 2021, 22, 10518.	4.1	3
49	Bruxism Influence on Volume and Interleukin-1Î² Concentration of Gingival Crevicular Fluid: A Preliminary Study. Applied Sciences (Switzerland), 2022, 12, 2089.	2.5	3
50	Do changes in iron metabolism contribute to the acceleration of the atherosclerosis process?. Biotechnologia, 2011, 2, 180-192.	0.9	2
51	Interrelations between Iron and Vitamin Aâ€"Studied Using Systems Approach. International Journal of Molecular Sciences, 2022, 23, 1189.	4.1	2
52	The Mutual Contribution of 3-NT, IL-18, Albumin, and Phosphate Foreshadows Death of Hemodialyzed Patients in a 2-Year Follow-Up. Antioxidants, 2022, 11, 355.	5.1	2
53	Mathematical Modeling of Aortic Aneurysm Progression. , 2018, , 85-89.		1
54	RESEARCH PAPER Neopterin in patients with chronic kidney disease and patients with coronary artery disease. Biotechnologia, 2012, 1, 59-67.	0.9	1

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55	The influence of alendronate therapy on the quality of life in postmenopausal women with reduced bone mineral density. Journal of Medical Science, 2017, 86, 292-299.	0.7	1
56	Petri nets and ODE as complementary tools in analysis of signaling pathways. , 0, , .		1
57	The influence of growth conditions on the profile of rhamnolipids produced by Pseudomons aeruginosa species from dead chickens with CRD. New Biotechnology, 2016, 33, S127-S128.	4.4	0
58	ABG Assistantâ€"Towards an Understanding of Complex Acid-Base Disorders. Journal of Clinical Medicine, 2021, 10, 1516.	2.4	0
59	RESEARCH PAPER Selected aspects of endothelial dysfunction and their influence on the atherosclerosis process modeled and analyzed by Petri net based approach. Biotechnologia, 2011, 4, 359-368.	0.9	0
60	Controlling the thickness of the atherosclerotic plaque by statin medication. , 2020, 15, e0239953.		0
61	Controlling the thickness of the atherosclerotic plaque by statin medication. , 2020, 15, e0239953.		0
62	Controlling the thickness of the atherosclerotic plaque by statin medication. , 2020, 15, e0239953.		0
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