List of Publications by Year in descending order

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Ινο Ρρουλζει Δε

#	Article	IF	CITATIONS
1	Computer Aided Drug Design: Success and Limitations. Current Pharmaceutical Design, 2016, 22, 572-581.	0.9	281
2	Mammalian metallothioneins: properties and functions. Metallomics, 2012, 4, 739.	1.0	212
3	Sleep scoring using artificial neural networks. Sleep Medicine Reviews, 2012, 16, 251-263.	3.8	185
4	Electrospinning over Solvent Casting: Tuning of Mechanical Properties of Membranes. Scientific Reports, 2018, 8, 5058.	1.6	139
5	Fully Automated Spectrometric Protocols for Determination of Antioxidant Activity: Advantages and Disadvantages. Molecules, 2010, 15, 8618-8640.	1.7	117
6	Content of Phenolic Compounds and Antioxidant Capacity in Fruits of Apricot Genotypes. Molecules, 2010, 15, 6285-6305.	1.7	116
7	Bioinformatics strategies for taxonomy independent binning and visualization of sequences in shotgun metagenomics. Computational and Structural Biotechnology Journal, 2017, 15, 48-55.	1.9	106
8	Adaptive Wavelet Wiener Filtering of ECG Signals. IEEE Transactions on Biomedical Engineering, 2013, 60, 437-445.	2.5	103
9	Serum and Tissue Zinc in Epithelial Malignancies: A Meta-Analysis. PLoS ONE, 2014, 9, e99790.	1.1	82
10	Physiology and methodology of chromium toxicity using alga Scenedesmus quadricauda as model object. Chemosphere, 2015, 120, 23-30.	4.2	61
11	From Na+/K+-ATPase and Cardiac Glycosides to Cytotoxicity and Cancer Treatment. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 1069-1087.	0.9	61
12	Effect of Five Different Stages of Ripening on Chemical Compounds in Medlar (Mespilus germanica L.). Molecules, 2011, 16, 74-91.	1.7	59
13	Acidogenesis, solventogenesis, metabolic stress response and life cycle changes in Clostridium beijerinckii NRRL B-598 at the transcriptomic level. Scientific Reports, 2019, 9, 1371.	1.6	48
14	Comparative analysis of high butanol tolerance and production in clostridia. Biotechnology Advances, 2018, 36, 721-738.	6.0	46
15	Classification of genomic signals using dynamic time warping. BMC Bioinformatics, 2013, 14, S1.	1.2	45
16	Real-Time Quality Assessment of Long-Term ECG Signals Recorded by Wearables in Free-Living Conditions. IEEE Transactions on Biomedical Engineering, 2020, 67, 2721-2734.	2.5	45
17	Electrophoretic fingerprint metallothionein analysis as a potential prostate cancer biomarker. Electrophoresis, 2011, 32, 1952-1961.	1.3	39
18	Mathematical Evaluation of the Amino Acid and Polyphenol Content and Antioxidant Activities of Fruits from Different Apricot Cultivars. Molecules, 2011, 16, 7428-7457.	1.7	38

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19	Phytotoxic action of naphthoquinone juglone demonstrated on lettuce seedling roots. Plant Physiology and Biochemistry, 2014, 84, 78-86.	2.8	38
20	Characterization of Microbiota Composition and Presence of Selected Antibiotic Resistance Genes in Carriage Water of Ornamental Fish. PLoS ONE, 2014, 9, e103865.	1.1	37
21	Dam and Dcm methylations prevent gene transfer into Clostridium pasteurianum NRRL B-598: development of methods for electrotransformation, conjugation, and sonoporation. Biotechnology for Biofuels, 2016, 9, 14.	6.2	35
22	Virtual screening, ADMET profiling, molecular docking and dynamics approaches to search for potent selective natural molecules based inhibitors against metallothionein-III to study Alzheimer's disease. Methods, 2015, 83, 105-110.	1.9	34
23	Isolated heart models: cardiovascular system studies and technological advances. Medical and Biological Engineering and Computing, 2015, 53, 669-678.	1.6	29
24	Effect of sodium humate and zinc oxide used in prophylaxis of post-weaning diarrhoea on faecal microbiota composition in weaned piglets. Veterinarni Medicina, 2016, 61, 328-336.	0.2	29
25	Reclassification of non-type strain Clostridium pasteurianum NRRL B-598 as Clostridium beijerinckii NRRL B-598. Journal of Biotechnology, 2017, 244, 1-3.	1.9	25
26	Antioxidant, Antimicrobial Activity and Medicinal Properties of Grewia asiatica L. Medicinal Chemistry, 2016, 12, 211-216.	0.7	25
27	Progressive alignment of genomic signals by multiple dynamic time warping. Journal of Theoretical Biology, 2015, 385, 20-30.	0.8	24
28	Complete genome sequence of Clostridium pasteurianum NRRL B-598, a non-type strain producing butanol. Journal of Biotechnology, 2015, 214, 113-114.	1.9	24
29	Effect of fluoranthene on plant cell model: Tobacco BY-2 suspension culture. Environmental and Experimental Botany, 2012, 78, 117-126.	2.0	23
30	Structural changes in metallothionein isoforms revealed by capillary electrophoresis and Brdicka reaction. Electrophoresis, 2012, 33, 270-279.	1.3	22
31	Investigation of interaction between magnetic silica particles and lambda phage DNA fragment. Journal of Pharmaceutical and Biomedical Analysis, 2013, 86, 65-72.	1.4	22
32	Wavelet transform in electrocardiography—data compression. International Journal of Medical Informatics, 1997, 45, 111-128.	1.6	21
33	DNA hypomethylation concomitant with the overproduction of ROS induced by naphthoquinone juglone on tobacco BY-2 suspension cells. Environmental and Experimental Botany, 2015, 113, 28-39.	2.0	21
34	The extraction of the new components from electrogastrogram (EGG), using both adaptive filtering and electrocardiographic (ECG) derived respiration signal. BioMedical Engineering OnLine, 2015, 14, 60.	1.3	20
35	Transcriptional analysis of amino acid, metal ion, vitamin and carbohydrate uptake in butanol-producing Clostridium beijerinckii NRRL B-598. PLoS ONE, 2019, 14, e0224560.	1.1	19
36	Nanotechnologies for society. New designs and applications of nanosensors and nanobiosensors in medicine and environmental analysis. International Journal of Nanotechnology, 2012, 9, 746.	0.1	18

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37	A transcriptional response of Clostridium beijerinckii NRRL B-598 to a butanol shock. Biotechnology for Biofuels, 2019, 12, 243.	6.2	18
38	A Deformable Registration Method for Automated Morphometry of MRI Brain Images in Neuropsychiatric Research. IEEE Transactions on Medical Imaging, 2007, 26, 452-461.	5.4	17
39	Transcription profiling of butanol producer Clostridium beijerinckii NRRL B-598 using RNA-Seq. BMC Genomics, 2018, 19, 415.	1.2	17
40	Transcriptional profiling of murine osteoblast differentiation based on RNA-seq expression analyses. Bone, 2018, 113, 29-40.	1.4	13
41	Development and Characterization of Natural Product Derived Macromolecules Based Interpenetrating Polymer Network for Therapeutic Drug Targeting. ACS Omega, 2021, 6, 28699-28709.	1.6	13
42	Identification of positively selected genes in human pathogenic treponemes: Syphilis-, yaws-, and bejel-causing strains differ in sets of genes showing adaptive evolution. PLoS Neglected Tropical Diseases, 2019, 13, e0007463.	1.3	12
43	Draft Genome Sequence of Clostridium pasteurianum NRRL B-598, a Potential Butanol or Hydrogen Producer. Genome Announcements, 2014, 2, .	0.8	11
44	Set of rules for genomic signal downsampling. Computers in Biology and Medicine, 2016, 69, 308-314.	3.9	11
45	The effect of Benzothiazoloneâ€2 on the expression of Metallothioneinâ€3 in modulating Alzheimer's disease. Brain and Behavior, 2017, 7, e00799.	1.0	11
46	Rhodamine bound maghemite as a long-term dual imaging nanoprobe of adipose tissue-derived mesenchymal stromal cells. European Biophysics Journal, 2017, 46, 433-444.	1.2	11
47	Characteristics of motion artifacts in cardiac optical mapping studies. , 2009, 2009, 3240-3.		10
48	Transfection by Polyethyleneimine-Coated Magnetic Nanoparticles: Fine-Tuning the Condition for Electrophysiological Experiments. Journal of Biomedical Nanotechnology, 2018, 14, 1505-1514.	0.5	10
49	Clozapine Reverses Dysfunction of Glutamatergic Neurons Derived From Clozapine-Responsive Schizophrenia Patients. Frontiers in Cellular Neuroscience, 2022, 16, 830757.	1.8	10
50	A comparative tool for the validity of rate kinetics in ion channels by Onsager reciprocity theorem. Journal of Theoretical Biology, 2005, 233, 237-243.	0.8	9
51	Bipartite Graphs for Visualization Analysis of Microbiome Data. Evolutionary Bioinformatics, 2016, 12s1, EBO.S38546.	0.6	9
52	Simultaneous study of mechanobiology and calcium dynamics on hESCâ€derived cardiomyocytes clusters. Journal of Molecular Recognition, 2019, 32, e2760.	1.1	9
53	Phenotypic and genomic analysis of isopropanol and 1,3-propanediol producer Clostridium diolis DSM 15410. Genomics, 2021, 113, 1109-1119.	1.3	9
54	Use of whole genome DNA spectrograms in bacterial classification. Computers in Biology and Medicine, 2016, 69, 298-307.	3.9	8

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55	SVM Based ECG Classification Using Rhythm and Morphology Features, Cluster Analysis and Multilevel Noise Estimation. , 0, , .		8
56	A new approach to define dynamics of the ion channel gates. NeuroReport, 2004, 15, 335-338.	0.6	7
57	Cell toxicity and preparation of streptavidin-modified iron nanoparticles and glutathione-modified cadmium-based quantum dots. Procedia Engineering, 2010, 5, 922-925.	1.2	7
58	Isolation of Xis Gen Fragment of λ Phage from Agarose Gel Using Magnetic Particles for Subsequent Enzymatic DNA Sequencing. Chromatographia, 2013, 76, 329-334.	0.7	7
59	Fast time-varying linear filters for suppression of baseline drift in electrocardiographic signals. BioMedical Engineering OnLine, 2017, 16, 24.	1.3	7
60	<i>In silico</i> screening and molecular dynamics of phytochemicals from Indian cuisine against SARS-CoV-2 M ^{Pro} . Journal of Biomolecular Structure and Dynamics, 2022, 40, 3155-3169.	2.0	7
61	Paramagnetic antibody-modified microparticles coupled with voltammetry as a tool for isolation and detection of metallothionen as a bioindicator of metal pollution. Journal of Environmental Monitoring, 2011, 13, 2763.	2.1	6
62	A New Approach how to Define the Coefficient of Electroactivity of Adenine and Its Twelve Derivatives Using Flow Injection Analysis with Amperometric Detection. Electroanalysis, 2011, 23, 1556-1567.	1.5	6
63	Multi-Electrode Array with a Planar Surface for Cell Patterning by Microprinting. Sensors, 2019, 19, 5379.	2.1	6
64	Phenotypic and Genomic Analysis of Clostridium beijerinckii NRRL B-598 Mutants With Increased Butanol Tolerance. Frontiers in Bioengineering and Biotechnology, 2020, 8, 598392.	2.0	6
65	Transcriptomic studies of solventogenic clostridia, Clostridium acetobutylicum and Clostridium beijerinckii. Biotechnology Advances, 2022, 58, 107889.	6.0	6
66	Deeper below the surface—transcriptional changes in selected genes of Clostridium beijerinckii in response to butanol shock. MicrobiologyOpen, 2021, 10, e1146.	1.2	5
67	Relationship of Bacteria Using Comparison of Whole Genome Sequences in Frequency Domain. Advances in Intelligent Systems and Computing, 2014, , 397-408.	0.5	5
68	Complete Genome Sequence of Pragia fontium 24613, an Environmental Bacterium from the Family <i>Enterobacteriaceae</i> . Genome Announcements, 2015, 3, .	0.8	4
69	Studying the Kinetics of n-Butyl-Cyanoacrylate Tissue Adhesive and Its Oily Mixtures. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1043-1054.	1.2	4
70	Testing of features for fatigue detection inÂEOG. Bio-Medical Materials and Engineering, 2017, 28, 379-392.	0.4	4
71	Identification and Validation of Reference Genes in Clostridium beijerinckii NRRL B-598 for RT-qPCR Using RNA-Seq Data. Frontiers in Microbiology, 2021, 12, 640054.	1.5	4
72	Di-4-ANEPPS Modulates Electrical Activity and Progress of Myocardial Ischemia in Rabbit Isolated Heart. Frontiers in Physiology, 2021, 12, 667065.	1.3	4

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73	PhytoAFP: In Silico Approaches for Designing Plant-Derived Antifungal Peptides. Antibiotics, 2021, 10, 815.	1.5	4
74	Tolerance of Isolated Rabbit Hearts to Short Ischemic Periods Is Affected by Increased LV Mass Fraction. Physiological Research, 2017, 66, 581-589.	0.4	4
75	Cancer cell viscoelasticity measurement by quantitative phase and flow stress induction. Biophysical Journal, 2022, 121, 1632-1642.	0.2	4
76	Detection of short exons in DNA sequences using complex wavelet transform of structural features. , 2012, , .		3
77	Classification of ventricular premature and ischemic beats in animal electrograms. , 2015, , .		3
78	Self-supervised pretraining for transferable quantitative phase image cell segmentation. Biomedical Optics Express, 2021, 12, 6514.	1.5	3
79	Changes in efflux pump activity of Clostridium beijerinckii throughout ABE fermentation. Applied Microbiology and Biotechnology, 2021, 105, 877-889.	1.7	3
80	The effect of voltage-sensitive dye di-4-ANEPPS on heart rate variability in Langendorff-perfused isolated rabbit heart. , 2015, , .		2
81	Computer analysis of isolated cardiomyocyte contraction process via advanced image processing techniques. , 2015, , .		2
82	Terahertz Time-Domain Spectroscopy for Studying Absorbable Hemostats. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 420-426.	2.0	2
83	Free-Living Enterobacterium <i>Pragia fontium</i> 24613: Complete Genome Sequence and Metabolic Profiling. Evolutionary Bioinformatics, 2017, 13, 117693431770086.	0.6	2
84	The Effect of Rhodamine-Derived Superparamagnetic Maghemite Nanoparticles on the Motility of Human Mesenchymal Stem Cells and Mouse Embryonic Fibroblast Cells. Molecules, 2019, 24, 1192.	1.7	2
85	Delineation of ECG Waves Using Complex-Valued Continuous Wavelet Transform. IFMBE Proceedings, 2007, , 158-161.	0.2	2
86	An Evaluation of Different Coating for TiN Microelectrode Chambers Used for Neonatal Cardiomyocytes. , 0, , .		2
87	Time — Varying filters for ECG processing. , 1992, , .		1
88	Motive representation in nucleotide densities of bird's mitochondrial gene COX1. , 2011, , .		1
89	Systems for rapid simultaneous measurement of calcium transients and contractions of adult cardiomyocytes. , 2013, , .		1
90	Method for adult cardiomyocyte long-term viability monitoring using confocal microscopy techniques. , 2015, , .		1

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91	Bipartite graphs for metagenomic data analysis and visualization. , 2015, , .		1
92	Smartphone based point-of-care detector of urine albumin. , 2016, , .		1
93	Reference-free Identification of Phage DNA Using Signal Processing on Nanopore Data. , 2017, , .		1
94	Three-dimensional fluorescence lifetime imaging in confocal microscopy of living cells. , 2017, , .		1
95	DNA Intracellular Delivery into 3T3 Cell Line Using Fluorescence Magnetic Ferumoxide Nanoparticles. IFMBE Proceedings, 2019, , 149-153.	0.2	1
96	Exploring the Therapeutic Effects of Micro-pulse Stimulation. Lecture Notes in Electrical Engineering, 2018, , 21-27.	0.3	1
97	Micro-pulse Stimulation. Lecture Notes in Electrical Engineering, 2018, , 13-19.	0.3	1
98	The Effect of Haloperidol Administration on Heart Rate Variability in Isolated Heart of Schizophrenia-like and Control Rats. , 0, , .		1
99	Similarity/dissimilarity analysis of COI mitochondrial gene of chosen bird species based on nucleotide density. , 2010, , .		0
100	Similarity analysis of primary and secondary structures of metallothioneins. , 2010, , .		0
101	Virtual screening, ADMET profiling, molecular docking and dynamics approaches to search for potent selective natural molecule based inhibitors against metallothionein-III to study Alzheimer's disease. , 2014, , .		0
102	In-Silico Characterization of Human Metallothionein (MT-1E) and Its Role in Prevention and Therapy of Bladder Cancer with Dietary Agents. , 2014, , .		0
103	The frequency changes in electrograms during ischemia experiments - analysis by Matching Pursuit decomposition. , 2015, , .		0
104	Characterization of cells migration through cardiac tissue using advanced microscopy techniques and matlab simulation. , 2015, , .		0
105	Voltage sensitive dye di-4-ANNEPS prolongs impulse conduction through ventricles, but not through AV node in isolated rabbit heart. , 2015, , .		0
106	Terahertz time-domain spectroscopy for studying the kinetics of tissue adhesives. Proceedings of SPIE, 2015, , .	0.8	0
107	All-in-one detector of circulating mRNA based on a smartphone. , 2016, , .		0
108	Electrical Stimulation of ASAP1 with a Combination of Microelectrode Array and Fluorescent Techniques. , 2018, , .		0

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109	Modern Semi-automatic Set-up for Testing Cell Migration with Impact for Therapy of Myocardial Infarction. IFMBE Proceedings, 2019, , 155-159.	0.2	0
110	Method for Analysis of Excitation-Emission Spectral Scans to Characterize Fluorescent Probes in Confocal Microscopy. Microscopy and Microanalysis, 2019, 25, 1264-1265.	0.2	0
111	Influence of sample variance on the phylogenetic reconstruction of protein sequences. , 2011, , .		0
112	Application of Advanced Spectral Analysis for Rehabilitation Progress Estimation Concerning Patients after Ischemic Brain Stroke. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2014, 4, 82-85.	0.2	0
113	The Effect of Cardiac Filling on Heart Rate Variability in Rabbit Isolated Heart. , 0, , .		0
114	Simultaneous Electrical and Fluorescence Recording of HL-1 Cells Electrical Activity in Response to Extracellular Calcium Stimulation. , 0, , .		0
115	UPGRADE OF THE LANGENDORFF APPARATUS USING THE INFRARED THERMO-CONTROL SYSTEM AND AN INTELLIGENT HEATER. Lekar A Technika, 2020, 50, 137-141.	0.1	0
116	Title is missing!. , 2019, 14, e0224560.		0
117	Title is missing!. , 2019, 14, e0224560.		0
118	Title is missing!. , 2019, 14, e0224560.		0
119	Title is missing!. , 2019, 14, e0224560.		0
120	Classification of First-Episode Schizophrenia Using Wavelet Imaging Features. Studies in Health Technology and Informatics, 2020, 270, 1221-1222.	0.2	0