Irena Cosic

List of Publications by Year in descending order

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361413 477307 1,388 72 20 29 citations h-index g-index papers 73 73 73 1118 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Wavelet transform feature extraction from human PPG, ECG, and EEG signal responses to ELF PEMF exposures: A pilot study., 2008, 18, 861-874.		183
2	The Resonant Recognition Model of Macromolecular Bioactivity. , 1997, , .		80
3	Protein sequence comparison based on the wavelet transform approach. Protein Engineering, Design and Selection, 2002, 15, 193-203.	2.1	64
4	Cross-correlation of EEG frequency bands and heart rate variability for sleep apnoea classification. Medical and Biological Engineering and Computing, 2010, 48, 1261-1269.	2.8	48
5	Time-frequency analysis of normal and abnormal biological signals. Biomedical Signal Processing and Control, 2006, 1, 33-43.	5.7	42
6	Developing a Wireless Implantable Body Sensor Network in MICS Band. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 567-576.	3.2	41
7	In vitro inhibition of the actions of basic FGF by a novel 16 amino acid peptide. Molecular and Cellular Biochemistry, 1994, 130, 1-9.	3.1	39
8	Biological Effects of a De Novo Designed Myxoma Virus Peptide Analogue: Evaluation of Cytotoxicity on Tumor Cells. PLoS ONE, 2011, 6, e24809.	2.5	38
9	Improved performance of the electromagnetic fuel injector solenoid actuator using a modelling approach. International Journal of Applied Electromagnetics and Mechanics, 2008, 27, 251-273.	0.6	37
10	Prediction of 'hot spots' in SV40 enhancer and relation with experimental data. FEBS Journal, 1987, 170, 247-252.	0.2	35
11	The resonant recognition model (RRM) predicts amino acid residues in highly conserved regions of the hormone prolactin (PRL). Biophysical Chemistry, 2000, 84, 149-157.	2.8	35
12	RRM Prediction of Erythrocyte Band3 Protein as Alternative Receptor for SARS-CoV-2 Virus. Applied Sciences (Switzerland), 2020, 10, 4053.	2.5	35
13	Virtual Spectroscopy for Fun and Profit. Nature Biotechnology, 1995, 13, 236-238.	17.5	30
14	Bioactive peptide design using the Resonant Recognition Model. Nonlinear Biomedical Physics, 2007, 1, 7.	1.5	30
15	Advances in Methods for Therapeutic Peptide Discovery, Design and Development. Current Pharmaceutical Biotechnology, 2011, 12, 1117-1127.	1.6	30
16	Resonant recognition model and protein topography. Model studies with myoglobin, hemoglobin and lysozyme. FEBS Journal, 1991, 198, 113-119.	0.2	29
17	The Possibility of Soliton/Exciton Transfer in Proteins. Journal of Theoretical Biology, 1997, 184, 331-338.	1.7	29
18	A Mobile Phone Based Intelligent Telemonitoring Platform. , 2006, , .		28

#	Article	IF	Citations
19	Adaptive neuro-fuzzy inference system employing wavelet coefficients for detection of alterations in sleep EEG activity during hypopnoea episodes., 2010, 20, 678-691.		28
20	Enhancer binding proteins predicted by informational spectrum method. Biochemical and Biophysical Research Communications, 1986, 141, 831-838.	2.1	27
21	Investigation of the applicability of dielectric relaxation properties of amino acid solutions within the resonant recognition model. IEEE Transactions on Nanobioscience, 2003, 2, 63-69.	3.3	26
22	Correlation of sleep EEG frequency bands and heart rate variability., 2009, 2009, 5014-7.		26
23	Alterations of human electroencephalographic activity caused by multiple extremely low frequency magnetic field exposures. Medical and Biological Engineering and Computing, 2009, 47, 1063-1073.	2.8	25
24	Is it possible to predict electromagnetic resonances in proteins, DNA and RNA?. EPJ Nonlinear Biomedical Physics, 2015, 3, .	0.8	24
25	The effect of electromagnetic radiation (550 – 850 nm) on l-Lactate dehydrogenase kinetics. International Journal of Radiation Biology, 2007, 83, 221-230.	1.8	23
26	â€~Hot spot' amino acid distribution in Ha-ras oncogene product p21: Relationship to guanine binding site. Journal of Molecular Recognition, 1991, 4, 57-62.	2.1	21
27	Prediction of Tubulin Resonant Frequencies Using the Resonant Recognition Model (RRM). IEEE Transactions on Nanobioscience, 2015, 14, 491-496.	3.3	20
28	Biological Effects of Electromagnetic Radiation. , 0, , .		19
29	Analysis of human PPG, ECG and EEG signals by eigenvector methods. , 2010, 20, 956-963.		19
30	AR Spectral Analysis Technique for Human PPG, ECG and EEG Signals. Journal of Medical Systems, 2008, 32, 201-206.	3.6	17
31	Investigation of cytotoxicity of negative control peptides versus bioactive peptides on skin cancer and normal cells: a comparative study. Future Medicinal Chemistry, 2012, 4, 1553-1565.	2.3	16
32	Environmental Light and Its Relationship with Electromagnetic Resonances of Biomolecular Interactions, as Predicted by the Resonant Recognition Model. International Journal of Environmental Research and Public Health, 2016, 13, 647.	2.6	16
33	Studies on protein-DNA interactions using the resonant recognition model. Application to repressors and transforming proteins. FEBS Journal, 1992, 205, 613-619.	0.2	15
34	Automated ELF magnetic field stimulation of the human EEG activity. Integrated Computer-Aided Engineering, 2006, 13, 313-328.	4.6	15
35	An investigation on dielectric properties of major constituents of grape must using electrochemical impedance spectroscopy. European Food Research and Technology, 2009, 229, 887-897.	3.3	14
36	A mobile web grid based physiological signal monitoring system. , 2008, , .		12

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37	EEG inter/intra-hemispheric coherence and asymmetric responses to visual stimulations. Medical and Biological Engineering and Computing, 2009, 47, 1023-1034.	2.8	12
38	A bioactive peptide analogue for myxoma virus protein with a targeted cytotoxicity for human skin cancer in vitro. Journal of Biomedical Science, 2012, 19, 65.	7.0	12
39	Analysis of Tumor Necrosis Factor Function Using the Resonant Recognition Model. Cell Biochemistry and Biophysics, 2016, 74, 175-180.	1.8	12
40	Analysis of sleep EEG activity during hypopnoea episodes by least squares support vector machine employing AR coefficients. Expert Systems With Applications, 2010, 37, 4463-4467.	7.6	11
41	Low intensity microwave radiation as modulator of the l-lactate dehydrogenase activity. Medical and Biological Engineering and Computing, 2011, 49, 793-799.	2.8	11
42	3-layer implantable microstrip antenna optimised for retinal prosthesis system in MICS band. , 2011, , .		10
43	A fast Critical Arrhythmic ECG waveform identification method using cross-correlation and multiple template matching., 2010, 2010, 1922-5.		9
44	A mobile phone based intelligent scoring approach for assessment of critical illness. , 2008, , .		8
45	A blind equalization algorithm for biological signals transmission. , 2012, 22, 114-123.		8
46	A Time-Frequency Approach for the Analysis of Normal and Arrhythmia Cardiac Signals. , 2006, Suppl, 6509-12.		6
47	Alterations in Sleep EEG Activity During the Hypopnoea Episodes. Journal of Medical Systems, 2010, 34, 485-491.	3.6	6
48	The treatment of crigler-najjar syndrome by blue light as explained by resonant recognition model. EPJ Nonlinear Biomedical Physics, 2016, 4, .	0.8	6
49	The use of ionisation constants of amino acids for protein signal analysis within the resonant recognition model-application to proteases. Molecular Simulation, 2002, 28, 853-863.	2.0	5
50	Development of a conductive photoresist with a mixture of SU-8 and HCl doped polyaniline., 2005,,.		5
51	Eigenvector Methods for Analysis of Human PPG, ECG and EEG Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3304-7.	0.5	5
52	Computational analysis of DNA photolyases using digital signal processing methods. Molecular Simulation, 2006, 32, 1195-1203.	2.0	4
53	Preliminary evaluation of electroencephalographic entrainment using thalamocortical modelling. Expert Systems, 2009, 26, 320-338.	4.5	4
54	A computationally light-weight real-time classification method to identify different ECG signals. , 2011, , .		4

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55	Influence of Tuning Element Relief Patches on Pain as Analyzed by the Resonant Recognition Model. IEEE Transactions on Nanobioscience, 2017, 16, 822-827.	3.3	4
56	Sleep Onset Process as an Altered State of Consciousness. The Frontiers Collection, 2011, , 157-185.	0.2	4
57	Ataxin active site determination using spectral distribution of electron ion interaction potentials of amino acids. Medical and Biological Engineering and Computing, 2010, 48, 303-309.	2.8	3
58	Review of studies on modulating enzyme activity by low intensity electromagnetic radiation. , 2010, 2010, 835-8.		3
59	Protein active sites are defined as resonant spots in protein 3D structure. , 1992, , .		2
60	Personal, Non-Invasive Dosimetry for Radio-Frequency Human Exposure Assessment. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2319-22.	0.5	2
61	Brain and heart interaction during sleep in the healthy and sleep apnoea. , 2010, , .		2
62	Possibility to interfere with malaria parasite activity using specific electromagnetic frequencies. EPJ Nonlinear Biomedical Physics, 2015, 3, .	0.8	2
63	Explanation of Osteoblastic Differentiation of Stem Cells by Photo Biomodulation Using the Resonant Recognition Model. Applied Sciences (Switzerland), 2019, 9, 1979.	2.5	2
64	Analysis of Protein–Receptor Interactions on an Example of Leptin–Leptin Receptor Interaction Using the Resonant Recognition Model. Applied Sciences (Switzerland), 2019, 9, 5169.	2.5	2
65	Cancer Related BRCA-1 and BRCA-2 Mutations as Analysed by the Resonant Recognition Model. Journal of Advances in Molecular Biology, 2017, 1, .	0.2	2
66	Evaluation of the RRM model using dehydrogenase protein as example. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 341-346.	0.4	1
67	Adaptive transmit diversity with orthogonal space-time block coding for telemedicine application. , 2006, Suppl, 6517-20.		1
68	Alterations in Sleep Electroencephalography and Heart Rate Variability During the Obstructive Sleep Apnoea and Hypopnoea. , 0 , , .		1
69	A new approach to revealing functional residues from analysis of protein primary structure., 2009, 2009, 4731-4.		1
70	Is virtual spectroscopy real?. Nature Biotechnology, 1995, 13, 306-306.	17. 5	0
71	Prediction of protein active and/or binding site using time-frequency analysis: Application to ras oncogene proteins., 2012,,.		0
72	Macromolecular Resonances. Studies in Rhythm Engineering, 2021, , 1-35.	0.2	0