

# Irena Cosic

## List of Publications by Year in descending order

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72  
papers

1,388  
citations

361413

20  
h-index

477307

29  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1118  
citing authors

#	ARTICLE	IF	CITATIONS
1	Macromolecular Resonances. Studies in Rhythm Engineering, 2021, , 1-35.	0.2	0
2	RRM Prediction of Erythrocyte Band3 Protein as Alternative Receptor for SARS-CoV-2 Virus. Applied Sciences (Switzerland), 2020, 10, 4053.	2.5	35
3	Explanation of Osteoblastic Differentiation of Stem Cells by Photo Biomodulation Using the Resonant Recognition Model. Applied Sciences (Switzerland), 2019, 9, 1979.	2.5	2
4	Analysis of Proteinâ€“Receptor Interactions on an Example of Leptinâ€“Leptin Receptor Interaction Using the Resonant Recognition Model. Applied Sciences (Switzerland), 2019, 9, 5169.	2.5	2
5	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
6	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
7	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
8	The treatment of crigler-najjar syndrome by blue light as explained by resonant recognition model. EPJ Nonlinear Biomedical Physics, 2016, 4, .	0.8	6
9	Analysis of Tumor Necrosis Factor Function Using the Resonant Recognition Model. Cell Biochemistry and Biophysics, 2016, 74, 175-180.	1.8	12
10	Is it possible to predict electromagnetic resonances in proteins, DNA and RNA?. EPJ Nonlinear Biomedical Physics, 2015, 3, .	0.8	24
11	Possibility to interfere with malaria parasite activity using specific electromagnetic frequencies. EPJ Nonlinear Biomedical Physics, 2015, 3, .	0.8	2
12	Prediction of Tubulin Resonant Frequencies Using the Resonant Recognition Model (RRM). IEEE Transactions on Nanobioscience, 2015, 14, 491-496.	3.3	20
13	Prediction of protein active and/or binding site using time-frequency analysis: Application to ras oncogene proteins. , 2012, , .		0
14	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
15	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
16	A blind equalization algorithm for biological signals transmission. , 2012, 22, 114-123.		8
17	3-layer implantable microstrip antenna optimised for retinal prosthesis system in MICS band. , 2011, , .		10
18	Developing a Wireless Implantable Body Sensor Network in MICS Band. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 567-576.	3.2	41

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19	Low intensity microwave radiation as modulator of the Lactate dehydrogenase activity. Medical and Biological Engineering and Computing, 2011, 49, 793-799.	2.8	11
20	Advances in Methods for Therapeutic Peptide Discovery, Design and Development. Current Pharmaceutical Biotechnology, 2011, 12, 1117-1127.	1.6	30
21	A computationally light-weight real-time classification method to identify different ECG signals. , 2011, , .		4
22	Sleep Onset Process as an Altered State of Consciousness. The Frontiers Collection, 2011, , 157-185.	0.2	4
23	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
24	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
25	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
26	Alterations in Sleep EEG Activity During the Hypopnoea Episodes. Journal of Medical Systems, 2010, 34, 485-491.	3.6	6
27	Adaptive neuro-fuzzy inference system employing wavelet coefficients for detection of alterations in sleep EEG activity during hypopnoea episodes. , 2010, 20, 678-691.		28
28	Analysis of human PPG, ECG and EEG signals by eigenvector methods. , 2010, 20, 956-963.		19
29	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
30	Review of studies on modulating enzyme activity by low intensity electromagnetic radiation. , 2010, 2010, 835-8.		3
31	A fast Critical Arrhythmic ECG waveform identification method using cross-correlation and multiple template matching. , 2010, 2010, 1922-5.		9
32	Brain and heart interaction during sleep in the healthy and sleep apnoea. , 2010, , .		2
33	A new approach to revealing functional residues from analysis of protein primary structure. , 2009, 2009, 4731-4.		1
34	EEG inter/intra-hemispheric coherence and asymmetric responses to visual stimulations. Medical and Biological Engineering and Computing, 2009, 47, 1023-1034.	2.8	12
35	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
36	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

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37	Preliminary evaluation of electroencephalographic entrainment using thalamocortical modelling. Expert Systems, 2009, 26, 320-338.	4.5	4
38	Correlation of sleep EEG frequency bands and heart rate variability. , 2009, 2009, 5014-7.		26
39	AR Spectral Analysis Technique for Human PPG, ECG and EEG Signals. Journal of Medical Systems, 2008, 32, 201-206.	3.6	17
40	Wavelet transform feature extraction from human PPG, ECG, and EEG signal responses to ELF PEMF exposures: A pilot study. , 2008, 18, 861-874.		183
41	A mobile phone based intelligent scoring approach for assessment of critical illness. , 2008, , .		8
42	A mobile web grid based physiological signal monitoring system. , 2008, , .		12
43	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
44	The effect of electromagnetic radiation (550 â€“ 850 nm) on l-Lactate dehydrogenase kinetics. International Journal of Radiation Biology, 2007, 83, 221-230.	1.8	23
45	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
46	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
47	Bioactive peptide design using the Resonant Recognition Model. Nonlinear Biomedical Physics, 2007, 1, 7.	1.5	30
48	A Mobile Phone Based Intelligent Telemonitoring Platform. , 2006, , .		28
49	Adaptive transmit diversity with orthogonal space-time block coding for telemedicine application. , 2006, Suppl, 6517-20.		1
50	A Time-Frequency Approach for the Analysis of Normal and Arrhythmia Cardiac Signals. , 2006, Suppl, 6509-12.		6
51	Automated ELF magnetic field stimulation of the human EEG activity. Integrated Computer-Aided Engineering, 2006, 13, 313-328.	4.6	15
52	Time-frequency analysis of normal and abnormal biological signals. Biomedical Signal Processing and Control, 2006, 1, 33-43.	5.7	42
53	Computational analysis of DNA photolyases using digital signal processing methods. Molecular Simulation, 2006, 32, 1195-1203.	2.0	4
54	Development of a conductive photoresist with a mixture of SU-8 and HCl doped polyaniline. , 2005, , .		5

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55	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
56	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
57	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
58	Protein sequence comparison based on the wavelet transform approach. Protein Engineering, Design and Selection, 2002, 15, 193-203.	2.1	64
59	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
60	The Possibility of Soliton/Exciton Transfer in Proteins. Journal of Theoretical Biology, 1997, 184, 331-338.	1.7	29
61	The Resonant Recognition Model of Macromolecular Bioactivity. , 1997, , .		80
62	Virtual Spectroscopy for Fun and Profit. Nature Biotechnology, 1995, 13, 236-238.	17.5	30
63	Is virtual spectroscopy real?. Nature Biotechnology, 1995, 13, 306-306.	17.5	0
64	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
65	Protein active sites are defined as resonant spots in protein 3D structure. , 1992, , .		2
66	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
67	Resonant recognition model and protein topography. Model studies with myoglobin, hemoglobin and lysozyme. FEBS Journal, 1991, 198, 113-119.	0.2	29
68	â€˜Hot spotâ€™ 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
69	Prediction of 'hot spots' in SV40 enhancer and relation with experimental data. FEBS Journal, 1987, 170, 247-252.	0.2	35
70	Enhancer binding proteins predicted by informational spectrum method. Biochemical and Biophysical Research Communications, 1986, 141, 831-838.	2.1	27
71	Alterations in Sleep Electroencephalography and Heart Rate Variability During the Obstructive Sleep Apnoea and Hypopnoea. , 0, , .		1
72	Biological Effects of Electromagnetic Radiation. , 0, , .		19