



In The Name Of God

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I received the B.Sc. Degree in electronics engineering from University of Tabriz, in 1987, the M.Sc. degree in electronics engineering from Amir-Kabir University of Technology, Tehran, in 1991, and the Ph.D. Degree in electrical engineering (biomedical engineering) from Tarbiat Modares University, Tehran, Iran, in 1997.

I currently serves as a Professor of Biomedical Engineering (Professor from 2009, Associate Professor 2003-2009, Assistant Professor 1998-2003) and Head of BioMedical Informatics Department at Tarbiat Modares University, and President of Iranian Society of Biomedical Engineering. I have published over 350 papers in peer reviewed journals and international conferences.

I was Research Deputy Dean of Medical Sciences Faculty from 2009 to 2011, Manager of Applied Research office (1997-2005) and Head of Medical Physics Department (2008-2010) at Tarbiat Modares University. I have received many awards including the Razie second rank prize of "Invention, Innovation, Novation Group" from the Iranian National Research Center of Medical Sciences (NRCMS) for "design and implementation of isolated heart pacing, data logger and the signals analyzer system," in 2004. I have also received the awards of "Outstanding Iranian Student, Country-wide" in 1994 and "Outstanding Student of Tarbiat Modares University" in 1993 and 1994. I have been the co-recipient of International Khwarizmi Award of "Outstanding Research Team" from the Iranian Research Organization for Science and Technology (IROST) for "Tehran Cybernetic Arm" project in 1990.

My research and teaching interests include theory and application of bio-electromagnetics, Human-Machine Interaction, bioelectric phenomena and electrophysiology, bio-instrumentation, and biological signal processing. I have worked in "Tehran Cybernetic Arm Group (Outstanding Research Team in Iran)" since 1987.

I am concurrently working in three branches:

- 1) Use of Electromagnetic fields/energy for treatment of cancer,
- 2) Use of Bio-Electromagnetic fields/energy for empowering the mind (the Passive-Neuro-feedback Systems) and
- 3) Development of the affective Human-Machine interfaces.

Recently, in one of my research scopes, my students and I are designing a human-machine interface in which the user can control a virtual/artificial arm/hand, wheelchair, Tele-ROBOT or any machines. As it is well-known, in traditional Human-Machine interfaces, the user should adapt her/himself to an applicable machine. In our opinion, one suffers from too much cognitive and mental stress during training or machine-tuning processes. But, in our plan/ongoing-research, the machine should try to detect user affective and affordances and adapt itself using bio-associated measures, whilst the user is using the machine. Thus, they will have a bi-direction human-machine interaction/co-operation. My hypothesis is that during this interaction the cognitive pressure will be reduced and the user feels more satisfied. As a result, the system facilitates the learning process and shows higher control efficiency. For the application of the above idea, we want to decrease external force/load upon the system (Human+ Machine + Environment) by biological signals conveying information about the human's brain-state (cognition and their mental fatigue). Then, I would like to focus on the use of the forehead bio-potentials signals for extracting the affective/attention/emotion and cognitive control and developing Human-Machine systems.

CIVIL STATUS:

Name & Surname: Seyed Mohammad Pourmirjafari Firouzabadi

Birth Date & Place: Nov. 23, 1963, Tehran, Iran

Marital : Married, two children

EDUCATION:

1997 **Ph.D. Degree** in Electrical Engineering (Biomedical Engineering) from Tarbiat Modares University, Tehran, Iran.

1991 **M.S. Degree** in Electronics Engineering from Amirkabir University of Technology, Tehran, Iran.

1987 **B.S. Degree** in Electronics Engineering from University of Tabriz, Iran.

AREAS OF INTEREST:

- Bioelectric Phenomena and Electrophysiology,
- Human Machine Interaction and Cyborg,
- Biological Signal Processing,
- Bio-instrumentation (Electrophysiological Systems),
- Modeling of Physiological Systems.

ACADEMIC EXPERIENCES:

Professor, TARBIAT MODARES University, Tehran, Iran, Since Nov. 2008

Visiting Scholar , University of Essex, UK, Professor Hu's Research Team, 2007

Associate Professor, TARBIAT MODARES University, Tehran, Iran, Dec 2002

Assistant Professor, TARBIAT MODARES University, Tehran, Iran, Dec. 1997

1996-Now Teacher, Graduate Courses on Measurements and Instrumentation, Bioelectric Phenomena, Neuromuscular Control System at The Medical Physics Dept., Tarbiat- Modares University Tehran, Iran.

2012-2016 Teacher, graduate courses on Introduction to Medical Informatics and Artificial Neural Network at the Tarbiat- Modares University., Tehran, Iran

1999-2015 Teacher, Graduate Course on Electrophysiology and Bioelectric Phenomena, Bioelectromagnetics, Neuromuscular Control System at the Dept. of Biomedical Engineering, Islamic Azad University, Tehran, Iran.

2000-2012 Teacher, Graduate Courses on Measurements and Instrumentation, Bioelectric Phenomena, at The Medical Physics Dept., Mashhad University of Medical Sciences.

2004-2008 Teacher, Undergraduate courses on Introduction to Biomedical Engineering and Medical Informatics at The Islamic Azad University, Tehran, Iran.

1997-2003 Teacher, Graduate Course on Electromyography, at The Physiotherapy Dept., Tarbiat- Modares University.

1997- 2003 Teacher, Undergraduate course on Introduction to Biomedical Engineering at the Dept. of Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran.

1998-2000 Teacher, Graduate Course on Electrophysiology and Bioelectric Phenomena, at The Dept. of Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran.

1992-1999 Teaching assistant to Prof. R.M. Hashemi for graduate Courses on Neuromuscular Control System and Modeling of Physiological Systems.

1997-1998 Teacher, Undergraduate courses on Microprocessor and Electrical Measurements at The Dept. of Biomedical Engineering, Shahid Beheshti University of Medical Sciences, and Tehran, Iran.

1995-1996 Teacher, Undergraduate courses on Introduction to Biomedical Engineering and BME Specialized language at The Islamic Azad University, Tehran, Iran.

1990-1993 Instructor, a course on Digital Computer Systems at The Training Center, Telecommunication Co. of Iran, Tehran.

1988-1990 Instructor, Undergraduate Courses on Electric Circuits, Electronics Circuits, Digital Computer System, Digital logic and Pulse Techniques Laboratories at The Dept. of Electrical Engineering, Amirkabir University of Technology, Tehran, Iran.

HONORS, AWARDS, RECOGNITION:

2004 **Second Rank (Second Prize) Invention, Innovation, Novation Group of the Razie Award for Outstanding Innovation and Team Research from National Research Center of Medical Sciences (NRCMS) for working on, "Design and Implementation of Isolated Heart Pacing, data logger and the signals analyzer system".**

1994-1995 Outstanding Student Award of Tarbiat Modares University.

1994 **Outstanding Student Award of Iran (COUNTRY-WIDE).**

1993-1994 Outstanding Student Award of Tarbiat-Modares University.

1990 **First Rank (First Prize) of the International Khwarizmi Award for Outstanding Team Research from Iranian Research Organization for Science and Technology (IROST) for working on, "Tehran Cybernetic Arm Project".**

PROFESSIONAL EXPERIENCE:

2011- Now Head of the Department of Medical Informatics, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran

2009-2011 Deputy Dean of Research, Faculty of Medical Sciences, Tarbiat Modares University

2007-2009 Head of the Department of Medical Physics, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran

2004--2007 Dean of Biomedical Engineering Faculty, Science and Research Branch, Islamic Azad University

2003-2005 Head of the Department of Medical Physics, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.

1997-2005 Manager of Applied Research Office, Tarbiat Modares University, Tehran, Iran.

RESEARCH STUDENTS SUPERVISED:

Supervising more than 55 MSc. students and Ten Ph.D. student (finished)

And 10 MSc. and 10 Ph.D. students (on going), in Biomedical Engineering, Medical Physics and Physiotherapy during 1997-2014.

RESEARCH STUDENTS CO -SUPERVISED:

More than 30 MSc. students and 10 Ph.D. student (finished)

And Three M.Sc. and one Ph.D. students (on going), in Medical Physics and Biomedical Engineering during 1997-2014.

COMMITTEES, Scientific society Membership:

- 2001-Now **Board Member of Iranian Society for Biomedical Engineering (ISBME)**
- 2007-2013 **President of Iranian Society for Biomedical Engineering (ISBME)**
- 2011 -Now **Member of the Biomedical Engineering Audit and Evaluation Committee of the Ministry of Sciences, Research and Technology of Iran, Tehran, Iran**
- 2001-Now **Member of Iranian Society for Biomedical Engineering (ISBME) .**
- 2003-Now **Member of Editorial Board of Iranian Journal of BioMedical Engineering**
- 2000 -Now **Member of the BioMedical Engineering Audit and Evaluation Committee of the Ministry of Health and Medical Education of Iran, Tehran, Iran.**
- 2001 -2014 **Member of Invention, Innovation, Novation Group of the Razi Award, National Research Center of Medical Sciences (NRCMS)**
- 2004 -2007 **Inspector of Iranian Society for Biomedical Engineering (ISBME)**
- 2006 **Member of the Technical Committee of the 4th International Workshop on Biological Effects of Electromagnetic Fields, Crete, Greece.**
- 2005 **Member of the Scientific Committee of the 12th Iranian Conference on BioMedical Engineering (ICBME05), Tabriz, Iran.**
- 2003-2004 **Member of the University council of Tarbiat Modares University, Tehran, Iran.**
- 2001-2004 **Administrative Council Secretary-General of Iranian Society for Biomedical Engineering (ISBME).**
- 2004 **Member of the Scientific Committee of the 11th Iranian Conference on BioMedical Engineering (ICBME04), Tehran, Iran.**
- 2004 **Member of the ORGANIZING COMMITTEE of 11th Iranian Conference on BioMedical Engineering (ICBME04), Tehran, Iran.**
- 2001 **Member of the Scientific Committee of the 10th Iranian Conference on BioMedical Engineering (ICBME80), Tehran, Iran.**
- 2001 **Chairman and Executive Secretary of the 10th Iranian Conference on BioMedical Engineering (ICBME80), Tehran, Iran.**
- 1998 - 2000 **Member of the Medical Physics Audit and Evaluation Committee of the Ministry of Health and Medical Education of Iran, Tehran, Iran.**
- 1988-2003 **Member of Tehran Cybernetic Arm Group (TCA), Tehran, Iran.**
- 1997-2007 **Member of the Expert Committee of Medical Physics, School of Medical Sciences, Tarbiat Modares University, Tehran, Iran.**
- 1997-2007 **Member of the Expert Committee of Physiotherapy, School of Medical Sciences, Tarbiat Modares University, Tehran, Iran.**
- 1997-2003 **Member of the Research Committee of Tarbiat Modares University, Tehran, Iran.**
- 1988-1991 **Student Member of Institute of Electrical and Electronics Engineers (IEEE).**

REFEREE FOR JOURNAL ARTICLES SUBMITTED TO:

- (Iranian) Journal of BioMedical Engineering**
- (Iranian Medical) Journal of Daneshvar**
- (Iranian) Modares Journal of Medical Sciences**
- (Iranian Medical Journal of) Kowsar**

PUBLICATIONS:

Journal Papers:

165	Analysis of EEG Signals Related to Artists and Nonartists during Visual Perception, Mental Imagery, and Rest Using Approximate Entropy Nasrin Shourie, Mohammad Firoozabadi, Kambiz Badie BioMed Research International 2014
164	An application of simulated annealing to optimal transcranial direct current stimulation of the human brain R TAVAKOLI, H SADJEDI, SMP FIROOZABADI Turkish Journal of Electrical Engineering & Computer Sciences,2016.
163	Reliability of maximum amplitude and its related intensity of H⁺ response G Torkaman, SM Firoozabadi, AR Sarmadi Journal of Modern Rehabilitation 7 (1), 1-6, 2013. 384
162	Analysis of ECG in Phase Space for the Prediction of Spontaneous Atrial Fibrillation Termination S Parvaneh, MRH Golpaygani, M Firoozabadi, M Haghjoo Journal of Electrocardiology 49 (6), 936-937, 2016. 383
161	Environmental 50Hz Magnetic Fields Can Increase Viability of Human Umbilical Vein Endothelial Cells (HUVEC) Akram Mahna, SMP Firoozabadi Iranian Journal of Medical Physics 13 (2), 100-108, 2016. 373
160	Evaluation of Soft Tissue Sarcoma Tumors Electrical Conductivity Anisotropy Using Diffusion Tensor Imaging for Numerical Modeling on Electroporation K Ghazikhanlou-sani, SMP Firoozabadi, L Agha-ghazvini, ... Journal of Biomedical Physics and Engineering 6 (2 Jun),2015. 372
159	Effect of repeated transcranial magnetic stimulation during epileptogenesis on spontaneous activity of hippocampal CA1 pyramidal neurons in rats A Shojaei, S Semnani, M Janahmadi, H Moradi-Chameh, SM Firoozabadi, J Mirnajafi-Zadeh Phy. Pha., 19 (1), 1-13, 2016. 371
158	A neuromechanical modeling of spinal cord injury locomotor system for simulating the rehabilitation effects M Abedi, MM Moghaddam, M Firoozabadi Biocybernetics and Biomedical Engineering 36 (1), 193-204, 2016. 370
157	Low-Complexity Discriminative Feature Selection From EEG Before and After Short-Term Memory Task N Behzadfar, SMP Firoozabadi, K Badie Clinical EEG and neuroscience,2016. 369
156	تاثیرات استفاده از rTMS با فرکانس پایین بر سفتی مفصلی دست بیماران با همی پلژی ناشی از سکته مغزی پویک معتمدوزیری، فرید بحریمیا، سیدمحمد فیروزآبادی، بشری هاتف مجله علمی دانشگاه علوم پزشکی کردستان، 19، 103-113، 2014. 368
155	همجوشی تطبیقی سیگنال های بیوالکتریک پیشانی و فیزیولوژیکی به منظور تشخیص حالات احساسی Mahdi Khezri, Mohammad Firoozabadi, Ahmad Reza Sharafata فصلنامه تازه های علوم شناختی 17 (4), 45-62, 2015. 367
154	Analysis of EEG signals related to artists and non-artists during visual perception, mental imagery and rest using approximate entropy N. Shourie, SMP Firoozabadi, K. Badie BioMed Research International, 2014. 365
153	انتخاب مناسبترین دستگاه کاربر نهایی سیستم اطلاعات بیمارستانی از دید کاربران محبوبه اسلامی، سیدمحمد فیروزآبادی، الهه همایون والا مدیریت اطلاعات سلامت 12 (5), 538-530, 2015. 363
152	Reliable emotion recognition system based on dynamic adaptive fusion of forehead biopotentials and physiological signals M Khezri, M Firoozabadi, AR Sharafat Computer Methods and Programs in Biomedicine 122 (2), 149-164, 2015. 362
151	Emotion classification during music listening from forehead biosignals M Naji, M Firoozabadi, P Azadfallah Signal, Image and Video Processing 9 (6), 1365-1375, 2015, 361
150	Optimizaing the Parameters of Soft Tissue Sarcoma Tumors in Irreversible Electroporation Treatment Method K Ghazikhanlou-Sani, SM Firoozabadi, L Aghaghazvini, ... Journal of Isfahan Medical School 33 (339), 955-969, 2015. 360
149	Use of mobile phone during pregnancy and the risk of spontaneous abortion FS Mahmoudabadi, S Ziaei, M Firoozabadi, A Kazemnejad Journal of Environmental Health Science and Engineering 13 (1), 34,2015, 356
148	Identification of Imagery Based Affective States using Decision Level Fusion of Multimodal Physiological Signals M Khezri, M Firoozabadi, AR Sharafat Iranian Journal of Biomedical Engineering 8 (4), 340-359,2015. 355
147	Can Lucifer Yellow Indicate Correct Permeability of Biological Cell Membrane under An Electric and Magnetic Field? T. P. Firoozabadi, Z. Shankayi, A. Izadi, S. Mohammad P. Firoozabadi Cell Journal(Yakhteh) 16 (No 4), 560-563, 2015. 352

146	Effect of Tendon and Bulk Vibration of The Soleus Muscle on the Threshold and Positive Slope of the H-Reflex Recruitment Curve AK YOOSEFINEJAD, G TORKAMAN, SM FIROOZABADI Turk J Phys Med Rehab 61, 18-22 2015, 351
145	Sonochemotherapy of breast adenocarcinoma: an experimental in vivo model B Yousefian, SM Firoozabadi, M Mokhtari-Dizaji Journal of Ultrasound 18 (2), 165-171, 2015, 350
144	Low Frequency Repetitive Transcranial Magnetic Stimulation to Improve Motor Function and Grip Force of Upper Limbs of Patients With Hemiplegia PM Vaziri, F Bahrpeyma, M Firoozabadi, B Forough, B Hatf, ... Iranian Red Crescent Medical Journal 16 (8), 2014, 349
143	Moatamed Vaziri P;Bahrpeyma F;Firoozabadi M;Forough B, Comparing the application of combined low frequency rTMS and rehabilitation therapy with rehabilitation therapy alone on the stiffness of hand muscles in stork patients, Ilam,21, 7,2013. 348
142	Comparision of rehabilitation plus joystick verses routine rehabilitation treatment on hand muscles stiffness in hemiplegic patients P Motamedvaziri, F Bahrpeyma, M FiroozAbadi, A Shamili, B Forough Journal of Gorgan University of Medical Sciences 16 (3), 1-8 Effect of low frequency repeatitive transcranial magnetic stimulation to improve motor function and grip force of upper limb in hemiplegic patients, Journal of Gorgan University of Medical Sciences, 14, 4, 2013. 347
141	Improvement of Neurofeedback Therapy for Improved Attention Through Facilitation of Brain Activity Using Local Sinusoidal Extremely Low Frequency Magnetic Field Exposure YZ Mehran, M Firoozabadi, R Rostami Clinical EEG and Neuroscience 46 (2), 100-112,2015, SAGE Publications. 346
140	Yadollahpour, Ali; Firoozabadi, Mohammad; Mirnajafi-Zadeh Javad; , Investigating the Anticonvulsant Effects of Repetitive Transcranial Magnetic Stimulation on Perforant Path Kindling Model in Rats, Zahedan J. of Research in Medical Sciences,17,2,37-41,2015. 345
139	Local ELF-magnetic field: a possible novel therapeutic approach to psychology symptoms SA Shafiei, SM Firoozabadi Neurological Sciences 35 (11), 1651-1656, 2014, Springer Milan. 344
138	Azarnoosh, Mahdi; Nasrabadi, Ali Motie; Mohammadi, Mohammad Reza; Firoozabadi, Mohammad; ,Evaluating nonlinear variability of mental fatigue behavioral indices during long-term attentive task, Complexity, 17,6,7-16,2012. 343
137	Investigation of EEG changes during exposure to extremely low-frequency magnetic field to conduct brain signals SA Shafiei, SM Firoozabadi, KR Tabatabaie, M Ghabaee Neurological Sciences 35 (11), 1715-1721,2014, Springer Milan. 342
136	Self-regulation of brain gamma band activity through neurofeedback and its effects on visual feature bindings in healthy female students. Z Khodakarami, SMP Firoozabadi Koomesh 16 (1), 36-45, 2014, Semnan University of Medical Sciences and Health Services. 341
135	THE EFFECT OF INDIVIDUAL UPPER ALPHA BAND ENHANCING NEUROFEEDBACK ON REACTION-TIME AS AN INDICATOR OF SHORT-TERM MEMORY IN WOMEN EMPLOYEE'S M Jahanseir, SM FIROOZABADI, M Ghoshouni, NA MOTIE IRANIAN SOUTH MEDICAL JOURNAL (ISMJ) 17 (5), 834-846, 2014 340
134	Repeated transcranial magnetic stimulation prevents kindling-induced changes in electrophysiological properties of rat hippocampal CA1 pyramidal neurons A Shojaei, S Semnani, M Janahmadi, H Moradi-Chameh, SM Firoozabadi, J Mirnajafi-Zadeh Neuroscience 280, 181-192,2014. 339
133	Parametric study of irreversible electroporation with different needle electrodes: Electrical and thermal analysis A Nickfarjam, SMP Firoozabadi International Journal of Hyperthermia 30 (5), 335-347, 2014. 338
132	The effects of pulsed magnetic field exposure on the permeability of leukemia cancer cells Z Shankayi, SMP Firoozabadi, M Mansourian, A Mahna Electromagnetic biology and medicine 33 (2), 154-158, 2014. 337
131	Shourie, Nasrin; Firoozabadi, S Mohammad P; Badie, Kambiz;, Investigation and Classification of EEG Signals Related to Artists and Nonartists During Visual Perception, Mental Imagery and Rest Using Scaling Exponent ,Iranian J. of Biomedical Engineering,7, 4, 321-331, 2014. 336
130	Comparision of rehabilitation plus joystick verses routine rehabilitation treatment on hand muscles stiffness in hemiplegic patients P Motamedvaziri, F Bahrpeyma, M FiroozAbadi, A Shamili, B Forough Journal of Gorgan University of Medical Sciences 16 (3), 1-8, 2014. 335
129	COMBINING INDEPENDENT COMPONENT ANALYSIS WITH CHAOTIC QUANTIFIERS FOR THE RECOGNITION OF POSITIVE, NEGATIVE AND NEUTRAL EMOTIONS USING EEG SIGNALS M ABDOSSALEHI, AM NASRABADI, M FIROOZABADI Indian J. Sci. Res 4 (3), 409-414, 2014. 334
128	Investigation of Positive, Negative and Neutral Emotion's Determinism through EEG Signal Processing in Extracted Component of ICA M Abdossalehi, AM Nasrabadi, SMP Firoozabadi Iranian Journal of Biomedical Engineering 7 (2), 143-153, 2013. 333
127	Effects of Electromagnetic Fields on Health Outcomes: A Systematic Review Study A Kazemnejad, M Firoozabadi, M Gholami Fesharaki, S Samadi, N Gilani

	Journal of Police Medicine 2 (4), 209-222,2014. 332
126	H Tavakkoli, AM NASRABADI, SMP Firoozabadi, MK Moghaddam, The effect of ELF Magnetic fields on Nonlinear features of Helix Aspersa's Neurons, Iranian J. of Biomedical Engineering, 6,2 , 123-131 , 2012 . 331
125	A Comparative Investigation of Wavelet Families for Analysis of EEG Signals Related to Artists and Nonartists During Visual Perception, Mental Imagery, and Rest N Shourie, SMP Firoozabadi, K Badie Journal of Neurotherapy 17 (4), 248-257, 2013. 330
124	Empirical mode decomposition-based elimination of Electrocardiogram artifact from Electromyogram signals کاربرد تجزیه حالت تجربی سیگنال در حذف تداخل الکتروکاردیوگرام از سیگنال‌های الکترومایوگرام M Naji, M Firoozabadi, S Kahrizi Iranian Journal of Biomedical Engineering 7 (1), 13-20, 2013. 329
123	Classification of Music-Induced Emotions Based on Information Fusion of Forehead Biosignals and Electrocardiogram M Naji, M Firoozabadi, P Azadfallah Cognitive Computation 6 (2), 241-252, 2014. 327
122	Analysis of EEG rhythms under local sinusoidal ELF magnetic field exposure: An approach to neurofeedback enhancement on attention performance YZ Mehran, M Firoozabadi, R Rostami Journal of Biomedical Science and Engineering 6, 947-953, 2013. 326
121	Repetitive transcranial magnetic stimulation decreases the kindling induced synaptic potentiation: Effects of frequency and coil shape A Yadollahpour, SM Firoozabadi, M Shahpari, J Mirnajafi-Zadeh Epilepsy research 108 (2), 190-201,2013. 321
120	Optimization of Electric Pulse Amplitude and Frequency In Vitro for Low Voltage and High Frequency Electrochemotherapy Z Shankayi, SMP Firoozabadi, ZS Hassan The Journal of membrane biology 247 (2), 147-154, 2014. 320
119	The Effect of ELF Magnetic Field on Tumor Growth after Electrochemotherapy A Mahna, SMP Firoozabadi, Z Shankayi The Journal of membrane biology 247 (1), 9-15,2014. 319
118	Brain Inconspicuous Effect by Local Sinusoidal Extremely Low Frequency Magnetic Exposure Based on Wavelet Packet Analysis: Innovation in Online Passive Neurofeedback Therapy by the Neuro-LSELF System Y Zandi Mehran, M Firoozabadi, R Rostami Journal of Neurotherapy 17 (4), 226-247,2013. 318
117	Poopak Motamed Vaziri, Farid Bahrpeyma, Seyed Mohammad Firoozabadi , Mohammad Forough, Aryan shmini, Comparison of low frequency rTMS and rehabilitation combination therapy with rehabilitation on motor function and grip force of the upper limbs in hemiplegic patients, Scientific Journal of Kurdistan University of Medical Sciences, 17, 2, , 2012. 317
116	Thermal distribution in ablation of squamous cell carcinoma skin tumors using irreversible electroporation. A Nickfarjam, SM Firoozabadi, B Kalaghchi Journal of Gorgan University of Medical Sciences 15 (3), 46-54, 2013. 316
115	Effect of different frequencies of repetitive transcranial magnetic stimulation on acquisition of chemical kindled seizures in rats S Mongabadi, SM Firoozabadi, M Javan, A Shojaei, J Mirnajafi-Zadeh Neurological Sciences 34 (11), 1897-1903, 2013. 315
114	The Endothelial Permeability Increased by Low Voltage and High Frequency Electroporation Z Shankayi, SMP Firoozabadi, HZ Saraf Journal of Biomedical Physics & Engineering 3 (3), 87, 2013. 314
113	Effects of 950 MHz mobile phone waves on hippocampal long-term potentiation M Jadidi, M Firoozabadi, B Bolori Koomesh 14 (4), 505-511, 2013. 313
112	Investigation of EEG Alpha Rhythm of Artists and Nonartists During Visual Perception, Mental Imagery, and Rest N Shourie, SMP Firoozabadi, K Badie Journal of Neurotherapy 17 (3), 166-177, 2013. 312
111	Exposure to Extremely Low Frequency Electromagnetic Fields during Pregnancy and the Risk of Spontaneous Abortion: A Case-Control Study F Shamsi Mahmoudabadi, S Ziaei, M Firoozabadi, A Kazemnejad Journal of research in health sciences 13 (2), 131-134, 2013. 311
110	Parametric Modeling of Nerve Cell under the Sinusoidal Environmental 50 Hz Extremely Low Frequency Magnetic Fields H Ebrahimian, SM Firoozabadi, M Janahmadi, M Kaviani Moghadam Journal of Ardabil University of Medical Sciences 13 (2), 119-131, 2013. 310
109	Magnetic fields with frequency of 217 Hz can reduce cell apoptosis caused by electrochemotherapy M Mansourian, SMP Firoozabadi, Z Shankayi, ZM Hassan Electromagnetic biology and medicine 32 (1), 70-78, 2013. 309
108	A Multi Objective Genetic Algorithm (MOGA) for Optimizing Thermal and Electrical Distribution in Tumor Ablation by Irreversible Electroporation A Nickfarjam, SMP Firoozabadi, B Kalaghchi Journal of Biomedical Physics and Engineering, 3, 1, 125-136, 2013. 308

107	The effect of pulsed magnetic field on the molecular uptake and medium conductivity of leukemia cell Z Shankayi, SMP Firoozabadi, MG Mansurian Cell biochemistry and biophysics 65 (2), 211-216, 2013. 307
106	Local Exposure of Brain Central Areas to a Pulsed ELF Magnetic Field for a Purposeful Change in EEG Z Amirifalah, SMP Firoozabadi, SA Shafiei Clinical EEG and Neuroscience 44 (1), 44-52, Jan. 2013, SAGE. 306
105	Simorgh L., Torkaman G., Kahrizi S., Movasseghe S.,"Effects of short-term training with WBV on the electromyography activity of the soleus and gastrocnemius muscles in healthy young women," Journal of Research in Rehabilitation Sciences, 402-410, 8, 3, 2012. 305
104	Variation of wavelet entropy in electroencephalogram signal during neurofeedback training M Ghoshuni, M Firoozabadi, MA Khalilzadeh, MR Hashemi Golpayegani Complexity 18 (3), 18-23, 2013. 304
103	Raeisi E., Aghamiri, Bandi, Rahmatpour, Firoozabadi S.M.P, Kafi-abadi H., Mir Lluis M., "The Antitumor efficiency of combined electrochemotherapy and single dose irradiation on a breast cancer tumor model," Radiology Oncology, 226-232, 46, 2012. 299
102	I. Rezazadeh, S. M. Firoozabadi, Huosheng Hu, S. M. Hashemi, "C0-Adaptive and Affective Human-Machine Interface for Improving Training Performances of Virtual Myoelectric Forearm Prosthesis," IEEE Tran. On Affective Computing, 285-297, 3, Sep. 2012. 298
101	Shankayi, Firoozabadi, "Antitumor Efficiency of Electrochemotherapy by High and Low Frequencies and Repetitive Therapy in the Treatment of Invasive Ductal Carcinoma in Balb/c Mice," Cell Journal(yakhteh), 110-115,14,2, 2012. 297
100	S.A. Shafiei, S.M.P. Firoozabadi, K. Rasoulzadeh Tabatabaie. M. Ghabaee," Evaluating the Changes in Alpha-1 Band Due to Exposure to Magnetic Field ," IJMP Iran, 141-152, 9, 2, 19/06/2012 .296
99	Yousefian B., Firoozabadi S.M.P. MokhtariDizaji M.," Comparing the Effect of Physical Modalities on Permeabilisation of Cells to Bleomycin in Balb/C Mice," Zahedan Journal of Research in Medical Sciences. 295
99	Mansourian M., Firoozabadi S.M.P, Hassan. Shankayi Z.," The Effect of 217 Hz Magnetic Field of Cell Phone with Different Intensities on Apoptosis of Normal and Cancerous Cells Treated with Chemotherapy Drug ," Zahedan Journal of Research in Medical Sciences . 294
98	Mahna Akram, Firoozabadi S.M.P, Shankayi Z.," The Effect of Time-Varying Low Intensity ELF Magnetic Field on Growth Rate of Invasive Ductal Carcinoma on Balb/C Mice," Zahedan Journal of Research in Medical Sciences. 293
97	Ghoshuni M., Firoozabadi S.M.P, Khalilzadeh M.A., Hashemi R.M.," The Effect of Sensorimotor Rhythm Enhancing Neurofeedback on Power of Adjacent Frequency Bands English BioMedical Engineering: Application," Basis and Communications, 307-312, 24, 4, 2012. 292
96	Shankayi Z, Firoozabadi M, Saraf Hassan Z. Comparison of low voltage amplitude electrochemotherapy with 1 Hz and 5 kHz frequency in volume reduction of mouse mammary tumor in Balb/c Mice. Koomesh. 486-490 , 13(4), 2012. 290
95	S.A. Shafiei, S.M.P. Firoozabadi, K. Rasoulzadeh Tabatabaie, M. Ghabaee,"Study of the frequency parameters of EEG influenced by zone-dependent local ELF-MF exposure on the human head English Electromagnetic Biology and Medicine, 2012. 289
94	M. Shahpari, J. Mirnajafi-Zadeh, S.M.P. Firoozabadi," Effect of low-frequency electrical stimulation parameters on its anticonvulsant action during rapid Perforant path kindling in rat," Epilepsy Research, 69-77, 99, 2011. 279
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