

# Reza Faghihi

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

571  
citations

687220

13  
h-index

677027

22  
g-index

57  
all docs

57  
docs citations

57  
times ranked

688  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Lead oxide-decorated graphene oxide/epoxy composite towards X-Ray radiation shielding. <i>Radiation Physics and Chemistry</i> , 2018, 146, 77-85.   | 1.4 | 70        |
| 2  | Magnetic Resonance Spectroscopy and its Clinical Applications: A Review. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2017, 48, 233-253.  | 0.2 | 57        |
| 3  | Radiation attenuation properties of shields containing micro and Nano WO <sub>3</sub> in diagnostic X-ray energy range. <i>International Journal of Radiation Research</i> , 2016, 14, 127-131.   | 0.1 | 54        |
| 4  | Superior X-ray Radiation Shielding Effectiveness of Biocompatible Polyaniline Reinforced with Hybrid Graphene Oxide-Iron Tungsten Nitride Flakes. <i>Polymers</i> , 2020, 12, 1407.   | 2.0 | 43        |
| 5  | The Anticancer Activity and HSA Binding Properties of the Structurally Related Platinum (II) Complexes. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 861-872.   | 1.4 | 28        |
| 6  | Distribution of natural radionuclides and assessment of the associated radiological hazards in the rock and soil samples from a high-level natural radiation area, Northern Iran. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 2091-2103. | 0.7 | 23        |
| 7  | Radiation dose to neonates undergoing X-ray imaging in special care baby units in Iran. <i>Radiation Protection Dosimetry</i> , 2012, 150, 55-59.   | 0.4 | 21        |
| 8  | An exhaustive criterion for estimating quality of images in electrical impedance tomography with application to clinical imaging. <i>Journal of Visual Communication and Image Representation</i> , 2013, 24, 773-785.  | 1.7 | 19        |
| 9  | Moderation and shielding optimization for a <sup>252</sup> Cf based prompt gamma neutron activation analyzer system. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7221-7226.   | 3.8 | 19        |
| 10 | Impact of the vaginal applicator and dummy pellets on the dosimetry parameters of Cs-137 brachytherapy source. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 183-193.  | 0.8 | 18        |
| 11 | Investigation of the dose rate dependency of the PAGAT gel dosimeter at low dose rates. <i>Radiation Measurements</i> , 2012, 47, 139-144.  | 0.7 | 18        |
| 12 | Void fraction measurement in modeled two-phase flow inside a vertical pipe by using polyethylene phantoms. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 15206-15212.   | 3.8 | 18        |
| 13 | Characteristics of miniature electronic brachytherapy x-ray sources based on Tc-43U1 formalism using Monte Carlo simulation techniques. <i>Medical Physics</i> , 2012, 39, 1971-1979.   | 1.6 | 16        |
| 14 | Calculation of Blood Dose in Patients Treated With <sup>131</sup> I Using MIRD, Imaging, and Blood Sampling Methods. <i>Medicine (United States)</i> , 2016, 95, e3154.   | 0.4 | 15        |
| 15 | Reducing negative effects of quadratic norm regularization on image reconstruction in electrical impedance tomography. <i>Applied Mathematical Modelling</i> , 2013, 37, 5637-5652.   | 2.2 | 13        |
| 16 | An accelerated version of alternating direction method of multipliers for TV minimization in EIT. <i>Applied Mathematical Modelling</i> , 2016, 40, 8985-9000.  | 2.2 | 11        |
| 17 | Natural and artificial radioactivity distribution in soil of Fars province, Iran. <i>Radiation Protection Dosimetry</i> , 2011, 145, 66-74.   | 0.4 | 10        |
| 18 | EchoSeed Model 6733 Iodine-125 brachytherapy source: Improved dosimetric characterization using the MCNP5 Monte Carlo code. <i>Medical Physics</i> , 2012, 39, 4653-4659.   | 1.6 | 9         |

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|----|--|-----|-----------|
| 19 | Measurements of natural radioactivity concentration in drinking water samples of Shiraz city and springs of the Fars province, Iran, and dose estimation. <i>Radiation Protection Dosimetry</i> , 2013, 157, 112-119.                                    | 0.4 | 9         |
| 20 | Assessment of spring water quality and associated health risks in a high-level natural radiation area, North Iran. <i>Environmental Science and Pollution Research</i> , 2020, 27, 6589-6602.  | 2.7 | 9         |
| 21 | Calculation of dose distribution in compressible breast tissues using finite element modeling, Monte Carlo simulation and thermoluminescence dosimeters. <i>Physics in Medicine and Biology</i> , 2015, 60, 9185-9202.                                   | 1.6 | 8         |
| 22 | The improvement of anti-proliferation activity against breast cancer cell line of thioguanine by gold nanoparticles. <i>Medicinal Chemistry Research</i> , 2013, 22, 303-311.  | 1.1 | 7         |
| 23 | Dosimetry of gamma chamber blood irradiator using PAGAT gel dosimeter and Monte Carlo simulations. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 317-330.   | 0.8 | 6         |
| 24 | Design and fabrication of a multipurpose thyroid phantom for medical dosimetry and calibration. <i>Radiation Protection Dosimetry</i> , 2016, 168, 503-508.  | 0.4 | 6         |
| 25 | Revision of orthovoltage chest wall treatment using Monte Carlo simulations. <i>Technology and Health Care</i> , 2017, 25, 413-424.  | 0.5 | 5         |
| 26 | EFFECTIVE DOSE IN TWO DIFFERENT DENTAL CBCT SYSTEMS: NEWTOM VGi AND PLANMECA 3D MID. <i>Radiation Protection Dosimetry</i> , 2017, 176, 287-293.   | 0.4 | 4         |
| 27 | Developing an Optimum Protocol for Thermoluminescence Dosimetry with GR-200 Chips using Taguchi Method. <i>Radiation Protection Dosimetry</i> , 2017, 175, 284-294.  | 0.4 | 4         |
| 28 | Comparison of TSVD, MTSVD, and Tikhonov unfolding methods for reconstruction of X-ray spectra. <i>Radiation Physics and Chemistry</i> , 2020, 166, 108437.   | 1.4 | 4         |
| 29 | Effects of gamma irradiation on microbial load and quality characteristics of veal. <i>Advanced Biomedical Research</i> , 2013, 2, 11.   | 0.2 | 4         |
| 30 | The evaluation of the dose equivalent to the people accompanying patients in diagnostic radiology using the MCNP4C Monte Carlo code and TL dosimetry. <i>International Journal of Low Radiation</i> , 2009, 6, 185.                                      | 0.1 | 3         |
| 31 | A Review on Main Defects of TG-43. , 0, , .  |     | 3         |
| 32 | Application of polystyrene films for indoor radon dosimetry as SSNTD. <i>Applied Radiation and Isotopes</i> , 2013, 74, 23-25.   | 0.7 | 3         |
| 33 | Perturbation of TG-43 parameters of the brachytherapy sources under insufficient scattering materials. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 164-176.   | 0.8 | 3         |
| 34 | Effect of age-dependent bone electron density on the calculated dose distribution from kilovoltage and megavoltage photon and electron radiotherapy in paediatric MRI-only treatment planning. <i>British Journal of Radiology</i> , 2018, 91, 20170511. | 1.0 | 3         |
| 35 | Patch-Based Weld Defect Segmentation and Classification Using Anisotropic Diffusion Image Enhancement Combined with Support-Vector Machine. <i>Russian Journal of Nondestructive Testing</i> , 2021, 57, 61-71.  | 0.3 | 3         |
| 36 | Particle size and concentration effects on low energy X-ray attenuation in nanostructure and microstructure materials. <i>Nuclear Technology and Radiation Protection</i> , 2018, 33, 75-80.   | 0.3 | 3         |

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|----|---|-----|-----------|
| 37 | Assessment of Contrast Positioning Effects on Reconstructed Images of Elliptical Models in EIT Applying Different Current Patterns. <i>Journal of Applied Sciences</i> , 2012, 12, 518-534.   | 0.1 | 3         |
| 38 | Assessment the Influencing Factors on MRS Signal Obtained from High Magnetic Field Strength (1.5T) MRI Scanners During the Application of Homemade Metabolite Phantom. <i>Journal of Magnetics</i> , 2019, 24, 90-98.   | 0.2 | 3         |
| 39 | Developing a Treatment Planning Software Based on TG-43U1 Formalism for Cs-137 LDR Brachytherapy. <i>Iranian Red Crescent Medical Journal</i> , 2013, 15, 712-717.  | 0.5 | 3         |
| 40 | Developing a new approach for registering LWIR and MWIR images using local transformation function. <i>Signal, Image and Video Processing</i> , 2015, 9, 29-37.   | 1.7 | 2         |
| 41 | Unfolding neutron spectra from simulated response of thermoluminescence dosimeters inside a polyethylene sphere using GRNN neural network. <i>Journal of Instrumentation</i> , 2017, 12, T07007-T07007.   | 0.5 | 2         |
| 42 | The effect of tandem-ovoid titanium applicator on points A, B, bladder, and rectum doses in gynecological brachytherapy using 192 Ir. <i>Journal of Contemporary Brachytherapy</i> , 2018, 10, 91-95.   | 0.4 | 2         |
| 43 | Fast Pad $\hat{A}$ transform for increasing the signal to noise ratio of spectra provided by STEAM pulse sequence. <i>Technology and Health Care</i> , 2019, 27, 167-172.   | 0.5 | 2         |
| 44 | Investigation of Tissue Heterogeneity on the TG-43 Parameters for a Typical Electronic Brachytherapy X-Ray Source, Using Monte Carlo Simulation Method. <i>Brachytherapy</i> , 2010, 9, S45.  | 0.2 | 1         |
| 45 | Impact of rare earth element added filters on the X-ray beam spectra: A Monte Carlo approach. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 459-470.   | 0.7 | 1         |
| 46 | Effects of the attenuation correction and reconstruction method parameters on conventional cardiac dynamic SPECT. <i>Medicine (United States)</i> , 2018, 97, e12239.   | 0.4 | 1         |
| 47 | A method for cranial target delineation in radiotherapy treatment planning aided by single-voxel magnetic resonance spectroscopy: evaluation using a custom-designed gel-based phantom and simulations. <i>British Journal of Radiology</i> , 2019, 92, 20190216.               | 1.0 | 1         |
| 48 | Quantification of contrast agent materials using a new image-domain multi material decomposition algorithm based on dual energy CT. <i>BJR Open</i> , 2019, 1, 20180008.  | 0.4 | 1         |
| 49 | Assessment and elimination of errors due to electrode displacements in elliptical and square models in EIT. , 2010, , .   |     | 0         |
| 50 | Improving the performance of primal-dual interior-point method in inverse conductivity problems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2015, 23, 459-479.  | 0.9 | 0         |
| 51 | 3D electromagnetic modelling of new loco-regional hyperthermia applicator coupled with high resolution patient specific phantom. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2017, 51, 298-313.  | 0.4 | 0         |
| 52 | SU-FF-T-01: Investigation of Pagat Gel Dosimeter Application in Lowe Dose Rate Brachytherapy by Detemination of TG-43 Parameters of Selectron Cs-137 Source. <i>Medical Physics</i> , 2009, 36, 2518-2518.  | 1.6 | 0         |
| 53 | SU-E-T-714: Developing a TG-43U1 Based Dose Calculation Treatment Planning Software for Cs-137 LDR Brachytherapy. <i>Medical Physics</i> , 2011, 38, 3654-3654.   | 1.6 | 0         |
| 54 | SU-E-T-614: An Optimization Algorithm for Beam Angle, Beam Weight and Wedge Angle in Forward Treatment Planning of External-Beam Radiotherapy Based on an Integer-Representation Adaptive Mutation Probability Genetic Algorithm. <i>Medical Physics</i> , 2011, 38, 3631-3631. | 1.6 | 0         |

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|----|--|-----|-----------|
| 55 | SU-E-T-539: Developing a Method for Dose Heterogeneity Corrections for Cs-137 Brachytherapy Sources. Medical Physics, 2013, 40, 329-329.               | 1.6 | 0         |
| 56 | The Importance of Shimming in Magnetic Resonance Spectroscopy. Iranian Journal of Radiology, 2017, Special iss, .                                      | 0.1 | 0         |
| 57 | An Efficient Radiochemical Method for Extraction of <sup>226</sup> Ra From the Soil Samples. Avicenna Journal of Medical Biochemistry, 2019, 7, 57-60. | 0.5 | 0         |