

# Moeava Tehei

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,367  
citations

185998

28  
h-index

214527

47  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein dynamics studied by neutron scattering. Quarterly Reviews of Biophysics, 2002, 35, 327-367.	2.4	314
2	Adaptation to extreme environments: macromolecular dynamics in bacteria compared in vivo by neutron scattering. EMBO Reports, 2004, 5, 66-70.	2.0	118
3	Fast dynamics of halophilic malate dehydrogenase and BSA measured by neutron scattering under various solvent conditions influencing protein stability. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14356-14361.	3.3	100
4	Neutron scattering reveals extremely slow cell water in a Dead Sea organism. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 766-771.	3.3	95
5	Down to atomic-scale intracellular water dynamics. EMBO Journal, 2008, 9, 543-547.	3.5	83
6	From shell to cell: neutron scattering studies of biological water dynamics and coupling to activity. Faraday Discussions, 2009, 141, 117-130.	1.6	82
7	Neutron Scattering Reveals the Dynamic Basis of Protein Adaptation to Extreme Temperature. Journal of Biological Chemistry, 2005, 280, 40974-40979.	1.6	69
8	Hydration dependent studies of highly aligned multilayer lipid membranes by neutron scattering. Journal of Chemical Physics, 2010, 133, 164505.	1.2	61
9	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. Physica Medica, 2016, 32, 1444-1452.	0.4	61
10	The search for traces of life: the protective effect of salt on biological macromolecules. Extremophiles, 2002, 6, 427-430.	0.9	59
11	Enzyme Activity and Flexibility at Very Low Hydration. Biophysical Journal, 2005, 89, 1282-1287.	0.2	59
12	In Vivo Measurement of Internal and Global Macromolecular Motions in Escherichia coli. Biophysical Journal, 2008, 95, 857-864.	0.2	57
13	Protein Dynamics and Stability: The Distribution of Atomic Fluctuations in Thermophilic and Mesophilic Dihydrofolate Reductase Derived Using Elastic Incoherent Neutron Scattering. Biophysical Journal, 2008, 94, 4812-4818.	0.2	54
14	New sources and instrumentation for neutrons in biology. Chemical Physics, 2008, 345, 133-151.	0.9	53
15	Specific cellular water dynamics observed in vivo by neutron scattering and NMR. Physical Chemistry Chemical Physics, 2010, 12, 10154.	1.3	49
16	Cerium oxide nanoparticles: influence of the high-Z component revealed on radioresistant 9L cell survival under X-ray irradiation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 1098-1105.	1.7	49
17	Investigation of track structure and condensed history physics models for applications in radiation dosimetry on a micro and nano scale in Geant4. Biomedical Physics and Engineering Express, 2018, 4, 024001.	0.6	47
18	Adaptation to extreme environments: Macromolecular dynamics in complex systems. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 404-410.	1.1	43

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19	Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. ACS Applied Materials & Interfaces, 2016, 8, 5867-5876.	4.0	41
20	From Powder to Solution: Hydration Dependence of Human Hemoglobin Dynamics Correlated to Body Temperature. Biophysical Journal, 2009, 96, 5073-5081.	0.2	40
21	High- $Z$ Nanostructured Ceramics in Radiotherapy: First Evidence of $Ta_2O_5$ -Induced Dose Enhancement on Radioresistant Cancer Cells in an MV Photon Field. Particle and Particle Systems Characterization, 2014, 31, 500-505.	1.2	38
22	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated $\beta$ - $Bi_2O_3$ nanoparticles for cancer treatment. RSC Advances, 2014, 4, 24412.	1.7	38
23	Technical advances in x-ray microbeam radiation therapy. Physics in Medicine and Biology, 2020, 65, 02TR01.	1.6	38
24	Proofreading exonuclease on a tether: the complex between the E. coli DNA polymerase III subunits $\epsilon$ , $\mu$ , $\theta$ , and $\delta$ reveals a highly flexible arrangement of the proofreading domain. Nucleic Acids Research, 2013, 41, 5354-5367.	6.5	34
25	Synthesis of methotrexate-loaded tantalum pentoxide-poly(acrylic acid) nanoparticles for controlled drug release applications. Journal of Colloid and Interface Science, 2019, 538, 286-296.	5.0	34
26	Solvent isotope effect on macromolecular dynamics in E. coli. European Biophysics Journal, 2008, 37, 613-617.	1.2	32
27	High hydrostatic pressure effects investigated by neutron scattering on lipid multilamellar vesicles. Physical Chemistry Chemical Physics, 2013, 15, 20951.	1.3	31
28	Toward personalized synchrotron microbeam radiation therapy. Scientific Reports, 2020, 10, 8833.	1.6	31
29	Establishment of novel long-term cultures from EpCAM positive and negative circulating tumour cells from patients with metastatic gastroesophageal cancer. Scientific Reports, 2020, 10, 539.	1.6	30
30	Adaptation to high temperatures through macromolecular dynamics by neutron scattering. FEBS Journal, 2007, 274, 4034-4043.	2.2	28
31	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. Physica Medica, 2016, 32, 1584-1593.	0.4	28
32	Multifunctional $Fe_2O_3/CeO_2$ nanocomposites for free radical scavenging ultraviolet protection. RSC Advances, 2016, 6, 65397-65402.	1.7	24
33	Low frequency enzyme dynamics as a function of temperature and hydration: A neutron scattering study. Chemical Physics, 2005, 317, 267-273.	0.9	23
34	Dynamics of Immobilized and Native Escherichia coli Dihydrofolate Reductase by Quasielastic Neutron Scattering. Biophysical Journal, 2006, 90, 1090-1097.	0.2	22
35	Study of the effect of ceramic $Ta_2O_5$ nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. Physica Medica, 2016, 32, 1216-1224.	0.4	22
36	Optimizing dose enhancement with $Ta_2O_5$ nanoparticles for synchrotron microbeam activated radiation therapy. Physica Medica, 2016, 32, 1852-1861.	0.4	21

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37	Attenuation of UV absorption by poly(lactic acid)-iron oxide nanocomposite particles and their potential application in sunscreens. <i>Chemical Engineering Journal</i> , 2021, 405, 126843.	6.6	20
38	Biocompatible Bi(OH) <sub>3</sub> nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. <i>Materials Research Bulletin</i> , 2018, 108, 130-141.	2.7	19
39	Thulium Oxide Nanoparticles: A new candidate for image-guided radiotherapy. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 044001.	0.6	19
40	Fundamental and biotechnological applications of neutron scattering measurements for macromolecular dynamics. <i>European Biophysics Journal</i> , 2006, 35, 551-558.	1.2	18
41	Dynamics of apomyoglobin in the $\hat{1}\pm\text{-to-}\hat{1}^2$ transition and of partially unfolded aggregated protein. <i>European Biophysics Journal</i> , 2009, 38, 237-244.	1.2	18
42	Activity and molecular dynamics relationship within the family of human cholinesterases. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6764.	1.3	18
43	Correlation of the dynamics of native <i>human</i> acetylcholinesterase and its inhibited huperzine A counterpart from sub-picoseconds to nanoseconds. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140372.	1.5	18
44	In vitro investigation of the dose-rate effect on the biological effectiveness of megavoltage X-ray radiation doses. <i>Applied Radiation and Isotopes</i> , 2017, 128, 114-119.	0.7	18
45	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. <i>Physics in Medicine and Biology</i> , 2020, 65, 225017.	1.6	18
46	Energy Landscapes of <i>Human</i> Acetylcholinesterase and Its Huperzine A-Inhibited Counterpart. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14744-14753.	1.2	17
47	Activity and Dynamics of an Enzyme, Pig Liver Esterase, in Near-Anhydrous Conditions. <i>Biophysical Journal</i> , 2010, 99, L62-L64.	0.2	16
48	Highly porous hematite nanorods prepared via direct spray precipitation method. <i>Materials Letters</i> , 2014, 117, 279-282.	1.3	16
49	Thermal Fluctuations in Amphipol A8-35 Particles: A Neutron Scattering and Molecular Dynamics Study. <i>Journal of Membrane Biology</i> , 2014, 247, 897-908.	1.0	15
50	High toxicity of Bi(OH) <sub>3</sub> and $\hat{1}\pm\text{-Bi}2\text{O}3$ nanoparticles towards malignant 9L and MCF-7 cells. <i>Materials Science and Engineering C</i> , 2018, 93, 958-967.	3.8	15
51	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 960-964.	1.2	14
52	TiO <sub>2</sub> /BiO <sub>2</sub> CO <sub>3</sub> nanocomposites for ultraviolet filtration with reduced photocatalytic activity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5639-5650.	2.7	12
53	First in vitro evidence of modulated electro-hyperthermia treatment performance in combination with megavoltage radiation by clonogenic assay. <i>Scientific Reports</i> , 2018, 8, 16608.	1.6	11
54	Relation between dynamics, activity and thermal stability within the cholinesterase family. <i>Chemico-Biological Interactions</i> , 2013, 203, 14-18.	1.7	8

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55	Synchrotron activation radiotherapy: Effects of dose-rate and energy spectra to tantalum oxide nanoparticles selective tumour cell radiosensitization enhancement. Journal of Physics: Conference Series, 2017, 777, 012011.	0.3	7
56	Nanostructures, concentrations and energies: an ideal equation to extend therapeutic efficiency on radioresistant 9L tumor cells using $\text{Ta}_2\text{O}_5$ ceramic nanostructured particles. Biomedical Physics and Engineering Express, 2017, 3, 015018.	0.6	7
57	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. Materials Science and Engineering C, 2021, 123, 111970.	3.8	7
58	Elastic scattering studies of aligned DMPC multilayers on different hydrations<sup>1</sup>. Spectroscopy, 2010, 24, 461-466.	0.8	6
59	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. ACS Applied Materials & Interfaces, 2021, 13, 2204-2217.	4.0	6
60	Thulium oxide nanoparticles as radioenhancers for the treatment of metastatic cutaneous squamous cell carcinoma. Physics in Medicine and Biology, 2020, 65, 215018.	1.6	6
61	Incoherent elastic neutron scattering as a function of temperature : A fast way to characterise in-situ biological dynamics in complex solutions. European Physical Journal Special Topics, 2000, 10, Pr7-283-Pr7-287.	0.2	5
62	Enzyme hydration, activity and flexibility: A neutron scattering approach. Journal of Non-Crystalline Solids, 2006, 352, 4387-4393.	1.5	5
63	X-TREAM protocol for <i>in vitro</i> microbeam radiation therapy at the Australian Synchrotron. Journal of Applied Physics, 2021, 129, .	1.1	5
64	Indirect radio-chemo-beta therapy: a targeted approach to increase biological efficiency of x-rays based on energy. Physics in Medicine and Biology, 2015, 60, 7847-7859.	1.6	4
65	Radiosensitisation enhancement effect of BrUdR and Ta <sub>2</sub> O <sub>5</sub> NSPs in combination with 5-Fluorouracil antimetabolite in kilovoltage and megavoltage radiation. Biomedical Physics and Engineering Express, 2018, 4, 034001.	0.6	4
66	Incorporating Clinical Imaging into the Delivery of Microbeam Radiation Therapy. Applied Sciences (Switzerland), 2021, 11, 9101.	1.3	4
67	Down to atomic-scale intracellular water dynamics. EMBO Reports, 2008, 9, 590-590.	2.0	2
68	Polo-like kinase 1 inhibitor BI6727 sensitizes 9L gliosarcoma cells to ionizing irradiation. Biomedical Physics and Engineering Express, 2019, 5, 067003.	0.6	1
69	Enzyme activity and dynamics in near-anhydrous conditions. Nature Precedings, 2009, , .	0.1	0
70	PO-437 Drug and radio sensitivity profile of a primary CTC cell line derived from a patient with metastatic neuroendocrine tumour of the distal oesophagus. ESMO Open, 2018, 3, A402-A403.	2.0	0
71	Down to atomic-scale intracellular water dynamics. EMBO Reports, 0, , .	2.0	0