

Vladimir Binhi

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

974
citations

394286

19
h-index

454834

30
g-index

44
all docs

44
docs citations

44
times ranked

470
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Theoretical Concepts in Magnetobiology after 40 Years of Research. <i>Cells</i> , 2022, 11, 274. | 1.8 | 28 |
| 2 | Unfolding and Aggregation of Lysozyme under the Combined Action of Dithiothreitol and Guanidine Hydrochloride: Optical Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2710. | 1.8 | 15 |
| 3 | Random Effects in Magnetobiology and a Way to Summarize Them. <i>Bioelectromagnetics</i> , 2021, 42, 501-515. | 0.9 | 7 |
| 4 | Precision Interferometry as a New Method for Studying the Conformational State of Protein and Its Interaction with a Solvent. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2020, 128, 771-777. | 0.2 | 3 |
| 5 | Low-Frequency Magnetic Fields in Cars and Office Premises and the Geomagnetic Field Variations. <i>Bioelectromagnetics</i> , 2020, 41, 360-368. | 0.9 | 8 |
| 6 | Cardiovascular response as a marker of environmental stress caused by variations in geomagnetic field and local weather. <i>Biomedical Signal Processing and Control</i> , 2019, 51, 401-410. | 3.5 | 16 |
| 7 | Nonspecific magnetic biological effects: A model assuming the spin-orbit coupling. <i>Journal of Chemical Physics</i> , 2019, 151, 204101. | 1.2 | 14 |
| 8 | A limit in the dynamic increase in the accuracy of group migration. <i>BioSystems</i> , 2018, 166, 19-25. | 0.9 | 4 |
| 9 | Rotations of macromolecules affect nonspecific biological responses to magnetic fields. <i>Scientific Reports</i> , 2018, 8, 13495. | 1.6 | 46 |
| 10 | Laser interferometry of the hydrolytic changes in protein solutions: the refractive index and hydration shells. <i>Journal of Biological Physics</i> , 2018, 44, 345-360. | 0.7 | 9 |
| 11 | Response to comments by Frank Barnes and Ben Greenebaum on "A physical mechanism of magnetoreception: Extension and analysis". <i>Bioelectromagnetics</i> , 2017, 38, 324-325. | 0.9 | 2 |
| 12 | Changes in the refractive index of a solution during proteolysis of bovine serum albumin with pepsin. <i>Biophysics (Russian Federation)</i> , 2017, 62, 177-181. | 0.2 | 4 |
| 13 | A physical mechanism of magnetoreception: Extension and analysis. <i>Bioelectromagnetics</i> , 2017, 38, 41-52. | 0.9 | 40 |
| 14 | Biological effects of the hypomagnetic field: An analytical review of experiments and theories. <i>PLoS ONE</i> , 2017, 12, e0179340. | 1.1 | 92 |
| 15 | Magnetic factor in solar-terrestrial relations and its impact on the human body: physical problems and prospects for research. <i>Physics-Uspekhi</i> , 2016, 59, 502-510. | 0.8 | 34 |
| 16 | Primary physical mechanism of the biological effects of weak magnetic fields. <i>Biophysics (Russian)</i> 10 Tf 26 | 0.2 | 26 |
| 17 | Relaxation of liquid water states with altered stoichiometry. <i>Biophysics (Russian Federation)</i> , 2014, 59, 515-519. | 0.2 | 6 |
| 18 | Two types of magnetic biological effects: Individual and batch effects. <i>Biophysics (Russian Federation)</i> , 2012, 57, 237-243. | 0.2 | 6 |

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|----|--|-----|-----------|
| 19 | Microwave absorption by magnetic nanoparticles in the organism. Biophysics (Russian Federation), 2011, 56, 1096-1098. | 0.2 | 1 |
| 20 | Zero Magnetic Field Effect Observed in Human Cognitive Processes. Electromagnetic Biology and Medicine, 2009, 28, 310-315. | 0.7 | 36 |
| 21 | Zero Magnetic Field Effect Observed in Human Cognitive Processes. Electromagnetic Biology and Medicine, 2009, 28, 310-315. | 0.7 | 4 |
| 22 | The influence of geomagnetic field compensation on human cognitive processes. Biophysics (Russian Federation), 2006, 51, 233-236. | 0.2 | 21 |
| 23 | Do naturally occurring magnetic nanoparticles in the human body mediate increased risk of childhood leukaemia with EMF exposure?. International Journal of Radiation Biology, 2008, 84, 569-579. | 1.0 | 34 |
| 24 | Magnetobiology: The kT Paradox and Possible Solutions. Electromagnetic Biology and Medicine, 2007, 26, 45-62. | 0.7 | 66 |
| 25 | A few remarks on the combined action of DC and AC magnetic fields on ion motion in a macromolecule. Bioelectromagnetics, 2007, 28, 409-412. | 0.9 | 6 |
| 26 | Temperature factor and magnetic noise under conditions of stochastic resonance of magnetosomes. Biophysics (Russian Federation), 2006, 51, 233-236. | 0.2 | 2 |
| 27 | The paradox of magnetobiology: Analysis and prospects for solution. Biophysics (Russian Federation), 2006, 51, 497-503. | 0.2 | 7 |
| 28 | Stochastic dynamics of magnetosomes and a mechanism of biological orientation in the geomagnetic field. Bioelectromagnetics, 2006, 27, 58-63. | 0.9 | 25 |
| 29 | On the physical nature of magnetobiological effects. Quantum Electronics, 2006, 36, 691-701. | 0.3 | 9 |
| 30 | Analysis of the structure of magnetic fields that induced inhibition of stimulated neurite outgrowth. Bioelectromagnetics, 2005, 26, 684-689. | 0.9 | 1 |
| 31 | Reply to A Yu Grosberg's letter to the Physics Uspekhi Editorial Board. Physics-Uspekhi, 2005, 48, 537-538. | 0.8 | 1 |
| 32 | Stochastic dynamics of magnetosomes in cytoskeleton. Europhysics Letters, 2005, 70, 850-856. | 0.7 | 23 |
| 33 | Effects of weak magnetic fields on biological systems: physical aspects. Physics-Uspekhi, 2003, 46, 259-291. | 0.8 | 79 |
| 34 | Reply to Comment on "Molecular gyroscopes and biological effects of weak extremely low-frequency magnetic fields". Physical Review E, 2003, 68, . | 0.8 | 3 |
| 35 | Molecular gyroscopes and biological effects of weak extremely low-frequency magnetic fields. Physical Review E, 2002, 65, 051912. | 0.8 | 41 |
| 36 | THEORETICAL CONCEPTS IN MAGNETOBIOLOGY. Electromagnetic Biology and Medicine, 2001, 20, 43-58. | 0.4 | 21 |

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|----|--|-----|-----------|
| 37 | Effect of static magnetic field on E. coli cells and individual rotations of ion-protein complexes. Bioelectromagnetics, 2001, 22, 79-86. | 0.9 | 77 |
| 38 | Amplitude and frequency dissociation spectra of ion-protein complexes rotating in magnetic fields. Bioelectromagnetics, 2000, 21, 34-45. | 0.9 | 44 |
| 39 | Ion-protein dissociation predicts "windows" in electric field-induced wound-cell proliferation. Biochimica Et Biophysica Acta - General Subjects, 2000, 1474, 147-156. | 1.1 | 31 |
| 40 | Amplitude and frequency dissociation spectra of ion-protein complexes rotating in magnetic fields. Bioelectromagnetics, 2000, 21, 34-45. | 0.9 | 8 |
| 41 | A Formula for Frequency and Amplitude Windows of Some ELF and Null MF Bioeffects Follows from the Schroedinger Equation. , 1999, , 417-420. | | 2 |
| 42 | Interference mechanism for some biological effects of pulsed magnetic fields. Bioelectrochemistry, 1998, 45, 73-81. | 1.0 | 35 |
| 43 | Interference of Ion Quantum States Within a Protein Explains Weak Magnetic Field's Effect on Biosystems. Electromagnetic Biology and Medicine, 1997, 16, 203-214. | 0.4 | 37 |