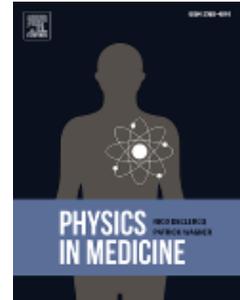




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DESCRIPTION

The scope of *Physics in Medicine* consists of the application of theoretical and practical physics to medicine, physiology and biology. Topics covered are: **Physics of Imaging** Ultrasonic imaging, Optical imaging, X-ray imaging, Fluorescence **Physics of Electromagnetics** Neural Engineering, Signal analysis in Medicine, Electromagnetics and the nerve system, Quantum Electronics **Physics of Therapy** Ultrasonic therapy, Vibrational medicine, Laser Physics **Physics of Materials and Mechanics** Physics of impact and injuries, Physics of proteins, Metamaterials, Nanoscience and Nanotechnology, Biomedical Materials, Physics of vascular and cerebrovascular diseases, Micromechanics and Micro engineering, Microfluidics in medicine, Mechanics of the human body, Rotary molecular motors, Biological physics, Physics of bio fabrication and regenerative medicine **Physics of Instrumentation** Engineering of instruments, Physical effects of the application of instruments, Measurement Science and Technology, Physics of micro-labs and bioanalytical sensor devices, Optical instrumentation, Ultrasound instruments **Physics of Hearing and Seeing** Acoustics and hearing, Physics of hearing aids, Optics and vision, Physics of vision aids **Physics of Space Medicine** Space physiology, Space medicine related Physics

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