

PERSONAL

Name: Hongwei Yang
Department: Department of Physics, College of Sciences
Gender: Male
Degree: Ph.D.
Title: Professor
Major: Biophysics
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BRIEF INTRODUCTION:

Doctor, professor, PhD Tutor (majoring in Biophysics). His research fields mainly contain physics application in agriculture and biology, Internet of things applications, biological electromagnetic effect, magnetic resonance theory, plasma technology and so on.

PROJECTS UNDERTAKEN:

- (3) Research and development of sharing service platform about core database and core information internet;
- (2) The research about Pulsed electric field acting on lactoglobulin in folding and aggregation processes;
- (1) Light Spectroscopy distribution induced microtuber of potato and photosynthate translocation regulation mechanism.

HONORS AND AWARDS:

His book, *Physics* (2nd edition) honored the excellent textbook award in higher agricultural institutions in 2011.

TEACHING INFORMATION:

He lectures *Physics* and *Physics experiments*

He is the chief editor of the book *Physics*, published by China Agricultural Press in 2013

PUBLICATIONS:

- (6) Qing-Xia Niu, Yu-Jie Liu, Da-Jie Song, Ying-Jie Gao, Cun-Li Dai, **Hong-Wei Yang***, Research of anti-ultraviolet nano-film structure based on the FDTD method, *Optik-International Journal for Light and Electron Optics*, **2016**, 127, 539-543.
- (5) Da-Jie Song, **Hong-Wei Yang***, Guang-Bin Wang, A Research for Plasma electromagnetic character Using JEC-CN-FDTD Algorithm Based on ICCG Method, *Optik-International Journal for Light and Electron Optics*, **2016**, 127, 1121-1125.
- (4) Ying-Jie Gao, **Hong-Wei Yang***, Rui Weng, Qing-Xia Niu, Yu-Jie Liu, Guang-Bin Wang, Research on the transmission coefficient of plasma photonic crystals based on the ICCG-SFDTD method, *Modern Physics Letters B*, **2015**, 29, 1550051-12.
- (3) Da-Jie Song, Ze-Kun Yang, Yu-Jie Liu, Qing-Xia Niu, **Hong-Wei Yang***, A Study on Plasma

Photonic Crystals: Electromagnetic Characteristics Using ICCG-based JEC-CN-FDTD Algorithm, *Zeitschrift für Naturforschung A*, **2015**, 70, 881-888.

- (2) Zhong Peng, **Hong-Wei Yang***, Rui Weng, Yingjie Gao, Ze Kun Yang, A Research on the CN-ICCG-FDTD Algorithm of Plasma Photonic Crystals and the transmission Coefficient of Electromagnetic Wave, *Computer Physics Communications*, **2014**, 185, 2387-2390.
- (1) YingJie Gao, **Hong-Wei Yang***, A High-order, Symplectic, Finite-difference Time-domain Scheme for Bioelectromagnetic Applications Within the Mother/Fetus Model, *Plos one*, **2014**, 9, 1-17.