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何影记

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何影记，光电工程学院院长、教授、博士。2007年7月获中山大学光学工程博士学位，师从汪河州先生。从事空间光学孤子研究十年，主持国家级项目2项、省厅级项目4项，发表70多篇SCI论文，平均每篇影响因子约为 2.2，单篇最高他引为80多次。应邀参与编写4部学术专著，3部在世界知名出版社出版，其中，2部著作在斯普林格 (Springer) 出版，1部著作即将在英国皇家学会出版的科学杂志Phil. Trans. Royal Soc. A出版。两篇论文在2012年全省受广东省自然科学基金资助发表的1926篇SCI论文中高引次数分别排名第5和第9。有1篇论文入选国际Physics 学术领域中最优秀的1%之列和 ESI Physics 领域的高被引论文。成功组织在我校召开的“2014年全国光孤子学术研讨会”。

主讲课程：《激光原理与技术》、《显示技术》。

研究领域:主要从事空间光孤子、微纳光子等研究。

主持科研项目：

- (1) 国家自然科学基金 (面上)：采用复势控制金兹堡-朗道耗散空间光孤子传输的研究，52万元，年限：2017.1-2020.12，在研
- (2) 国家自然科学基金 (面上)：项目名称:基于非均匀增益或损耗的耗散带隙空间光孤子的研究, 金额: 60万，年限：2012.1-2015.12，在研。
- (2) 广东省自然科学基金 (面上)：项目名称: 非局域耗散空间光孤子的研究，金额: 5万，年限：2013.10-2015.10，在研。
- (3) 广东省自然科学基金 (面上)：项目名称: 基于空间非均匀增益或损耗的耗散带隙光孤子的研究金额: 4万，年限：2012.1-2013.12，已结题。
- (4) 广东省自然科学基金 (博士启动)：项目名称: 用线性或周期性折射率调制来抑制空间孤子相互作用研究，金额: 3万，年限：2009.1-2010.12，已结题。

代表性论文 (“*” 指出通信作者)：

- (1)**Yingji He***, Dumitru Mihalache, Xing Zhu, Lina Guo, and Yaroslav V. Kartashov, “Stable surface solitons in truncated complex potentials,” Opt. Lett. 37, 2526 (2012).
- (2) **Yingji He***, Dumitru Mihalache, and Bambi Hu, “Soliton drift, rebound, penetration, and trapping at the interface between media with uniform and spatially modulated nonlinearities,” Opt. Lett. 35, 1716 (2010).
- (3)**Yingji He**, Boris A. Malomed, D. Mihalache, B. Liu, H. C. Huang, H. Yang, and H. Z. Wang, “Bound states of one-, two-, and three-dimensional solitons in complex Ginzburg–Landau equations with a linear potential,” Opt. Lett. 34, 2976 (2009).
- (4)**Yingji He**, W. H. Chen, H. Z. Wang, and Boris A. Malomed, “Surface superlattice gap solitons” , Opt. Lett. 32, 11 (2007).

- (5) **Yingji He***, Dumitru Mihalache, "Lattice solitons in optical media described by the complex Ginzburg-Landau model with PT-symmetric periodic potentials," Phys. Rev. A.87, 013812(2013).
- (6) **Yingji He***, Boris A. Malomed, "Solitary modes in nonlocal media with inhomogeneous self-repulsive nonlinearity," Phys. Rev. A. 87 053812 (2013).
- (7) **Yingji He***, Xing Zhu, Dumitru Mihalache, Jinglin Liu, and Zhanxu Chen, "Lattice solitons in PT -symmetric mixed linear-nonlinear optical lattices," Phys. Rev. A.85, 013831 (2012).
- (8) **Yingji He***, Boris A. Malomed, and Bambi Hu, "Two-dimensional gap solitons in elliptic-lattice potentials," Phys. Rev. A 78, 003800 (2010).
- (9) **Yingji He**, Boris A. Malomed, Dumitru Mihalache, and H. Z. Wang, "Crescent vortex solitons in strongly nonlocal nonlinear media" , Phys. Rev. A 78, 023824 (2008).
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- (12) **Yingji He***, Boris A. Malomed, "Accessible solitons in complex Ginzburg-Landau media," Phys. Rev. E 88, 042912 (2013).
- (13) **Yingji He***, Dumitru Mihalache, Boris A. Malomed, Yunli Qiu, Zhanxu Chen, and Yifang Li "Generations of polygonal soliton clusters and fundamental solitons by radially-azimuthally phase-modulated necklace-ring beams in dissipative systems," Phys. Rev. E 85 066206 (2012).

(14)**Yingji He**, B.A. Malomed, and H. Z. Wang, "Fusion of necklace-ring patterns into vortex and fundamental solitons in dissipative media" , Opt. Exp. 15, 17502 (2007).

(15) **Yingji He***, Boris A. Malomed, Dumitru Mihalache, Fangwei Ye, and Bambi Hu, "Generation of arrays of spatiotemporal dissipative solitons by the phase modulation of a broad beam," J. Opt. Soc. Am. B 27, 1266 (2010).

(16)**Yingji He***, Dumitru Mihalache, and Bambi Hu, "Annular light beams induced by coupling a dissipative spatial soliton on the top of a sharp external potential," J. Opt. Soc. Am. B 27, 2174 (2010).

(17) **Yingji He***, Boris A. Malomed, Fangwei Ye, and B.Hu, "Dynamics of dissipative spatial solitons over a sharp potential," J. Opt. Soc. Am. B 27, 1139 (2010).

(18)**Yingji He***, Dumitru Mihalache, "Rotary dissipative spatial solitons in cylindrical lattices," J. Opt. Soc. Am. B 30,3135 (2013).

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参编4部国际著作：

(1)**Yingji He***,Boris A. Malomed, and Dumitru Mihalach, "Localized modes in dissipative lattice media: An overview," Ed. Prof. M. Tlidi: "Localized structures in dissipative media: from nonlinear optics to plant ecology" , Phil. Trans. Royal Soc. A 2014372, 20140017 (国际著名英国皇家学会出版物, 始创于1665年, 是世界上较早专注于科学出版物) 。

(2)**Yingji He***, Boris A. Malome “Spatial Solitons in Parity-Time-Symmetric Photonic Lattices: Recent Theoretical Results,” Ed. Prof. Boris A. Malome: “Spontaneous Symmetry Breaking, Self-Trapping, and Josephson Oscillations in Nonlinear Systems” , in Progress Optical Sci., Photonics (2013): pp. 125–148; DOI: 10.1007/10091-2012-24, Springer-Verlag Berlin Heidelberg (世界著名出版物) .

(3)**Yingji He***, B.A. Malomed, F. Ye, J. Dong, Z. Qiu, H.Z. Wang, and B. Hu. "Transformation of optical beams into arrays of dissipative spatial solitons in material and virtual photonic-crystal structures", Edited Book Title: "Photonic Crystals: Optical Properties, Fabrication and Applications" by In: Photonic Crystals: Optical Properties, Fabrication... ISBN: 978-1-61122-413-9 Editor: William L. Dahl © 2010 Nova Science Publishers, Inc.

(4)**Yingji He*** and Boris A. Malomed, “Surface Waves and Boundary Effects in DNLS equation,” in: P. G. Kevrekidis, editor, Edited Book Title: “The Discrete Nonlinear Schrodinger Equation Mathematical Analysis, Numerical Computations and Physical Perspectives” , Springer Tracts in Modern Physics ISSN 0081-3869; DIO 10.1007/978-3-540-89199-4; Springer-Verlag Berlin Heidelberg 2009), pp. 259-276. (世界著名出版物) .

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