YA PING WANG (Ph.D., M.Sc., B.Sc.)

CURRICULUM VITAE

SARCCM

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Biography

In recent years, Dr. Wang along with his group has been working on the sedimentary dynamic processes in the near-bottom boundary layers, focusing on 1) the influence of turbulent temporal and spatial structure on the threshold starting condition of sediment movement, 2) the mechanism of floc aggregation and floc settling based on the combination of theoretical analysis and in-situ observation results, and 3) the in situ observations of sediment dynamics and geomorphological evolution of tidal flats under the influence of reclamation. The results could provide the theoretical foundations for the management and predictions of coastal sedimentary evolution, ecological health and sustainable development. In the recent five years, his group has published over 30 papers in the international journals, e.g. JGR-Oceans, Marine Geology.

Education

Sep., 1997 –July, 2000	Institute of Oceanology, Chinese Academy of Sciences (China) Ph.D. in Oceanography (Marine Sediment Dynamics)
Sep., 1994 –July, 1997	Nanjing Normal University (China) M.Sc. in Geography (Coastal Geomorphology and Sedimentology)
Sep., 1990 –July, 1994	Nanjing University (China) B.Sc. in Geography (Geomorphology and Quaternary Geology)

Work Experience

2017/09 – present: Professor, State Key Laboratory of Estuarine and Coastal Research (SKLEC), East China Normal University
2006/12 – present: Professor, School of Geography and Oceanography, Nanjing University

2003/11 – 2006/11: Associate Professor, School of Geography and Oceanography, Nanjing University
2000/09 – 2002/10: Postdoc, Department of Geography, Nanjing University

Awards and Group Memberships

Acta Oceanologica Sinica, Journal Editorial Board member (2016~)
Anthropocene Coasts, Journal Associate Editor (2017~)

Publications

Jieping Tang, Ya Ping Wang*, Qingguang Zhu, Jianjun Jia, Jilian Xiong, Peng Cheng, Hui Wu, Dezhi Chen, Hao Wu, 2019. Winter storms induced high suspended sediment concentration along the north offshore seabed of the Changjiang estuary. Estuarine, Coastal and Shelf Science, doi: https://doi.org/10.1016/j.ecss.2019.106351

Xiong, J., Wang, Y. P.*, Gao, S., Du, J., Yang, Y., Tang, J. and Gao, J., 2018. On estimation of coastal wave parameters and wave‐induced shear stresses. Limnology and Oceanography: Methods, 16: 594–606. doi: 10.1002/lom3.10271

Yuan Li, Jianjun Jia, Qingguang Zhu, Peng Cheng, Shu Gao, Ya Ping Wang*, 2018. Differentiating the effects of advection and resuspension on suspended sediment concentrations in a turbid estuary. Marine Geology, 403, 179-190. DOI: 10.1016/j.margeo.2018.06.001

Jilian Xiong , Xiao Hua Wang, Ya Ping Wang*, Jingdong Chen, Benwei Shi, Jianhua Gao, Yang Yang, Qian Yu, Mingliang Li, Lei Yang, Xulong Gong, 2017. Mechanisms of maintaining high suspended sediment concentration over tide-dominated offshore shoals in the southern Yellow Sea. Estuarine, Coastal and Shelf Science, 191: 221-233. doi: 10.1016/j.ecss.2017.04.023

Wang Yaping, Shi Benwei, Zhang Liang, Jia Jianjun, Xia Xiaomin, Zhou Liang, Yu Rui, Yang Yang, Gao Jianhua. 2017. Assessing the vulnerability of changing coasts, Hainan Island, China. Acta Oceanologica Sinica, 36(4): 114–120. doi: 10.1007/s13131-017-0972-8

Qingguang Zhu, Ya Ping Wang*, Shu Gao, Jicai Zhang, Mingliang Li, Yang Yang, and Jianhua Gao, 2017. Modeling morphological change in anthropogenically controlled estuaries. Anthropocene, 17: 70-83.

Benwei Shi, Ya Ping Wang*, Li Hua Wang, Peng Li, Jianhua Gao, Fei Xing, Jing Dong Chen, 2018. Great differences in the critical erosion threshold between surface and subsurface sediments: A field investigation of an intertidal mudflat, Jiangsu, China. Estuarine, Coastal and Shelf Science, 206: 76-86. DOI: 10.1016/j.ecss.2016.11.008

Research Programmes (PI)

Estuarine and Coastal Research：modern processes associated with sedimentary system and geomorphological evolution in tide-dominated environments China NSF (No. 41625021). 2017.01-2021.12.

Morphodynamics and Evolution of Open Tidal Flats with Sand Ridges in the Southern Yellow Sea. China NSF (No. 41376044). 2014-2017.

Land-ocean boundary processes and their impacts on the formation of the Yangtze deposition system: material exchanges between the watershed, coasts and continental shelves. National Basic Research Program of China (No. 2013CB956502). 2013-2017.

Research Interests

Marine Sediment Dynamics (tidal flat and saltmarsh processes; coastal and continental shelf sediment transport)

Benthic Boundary Layer Processes (wave-current interaction; sediment resuspension; hydrodynamic and turbulence measurements)

Estuarine and Coastal Morphodynamics