

Professor Zhaoyin WANG

Department of Environmental Science and Engineering
Faculty of Innovation Engineering
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PhD. Supervisor

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Academic Qualification:

- Ph. D. of Hydraulics and river dynamics, China Institute of Water Resources and Hydro-power Research.
- Master Degree, Hydraulics and river dynamics, China Institute of Water Resources and Hydro-power Research.

Prof. ZY Wang has been invited and presented more than 20 keynote and invited lectures at international conferences:

- 2019 Keynote lecture “Future sedimentation studies” 14th International Symposium on River Sedimentation, Chengdu, China, Sep. 2019.
- 2018 Invited lecture “Energy dissipation of bed structures” 60th Anniversary of IWHR, Beijing, 2018.
- 2016 Invited lecture “Eco-hydraulics and Eco-sedimentation” ASPIRE FORUM 2016 , Developing Sustainable Urban Environment and Low Carbon Economy
- 2015 Keynote lecture “Phylosophy of rivers” 36th IAHR World Congress, Den Hague, the Netherlands, June 28-July 3, 2015.
- 2014 Keynote lecture “Flood defense and sediment management of the Yellow River” 6th International Symposium of Large Asian Rivers, Yangling, May 9-11, 2014.
- 2012 Keynote lecture “Eco-sedimentation studies in China” IAHR River flow 2012, San Jose, Costa Rica, Sep. 03-06, 2012.
- 2011 Keynote lecture “Effect of bed structures on bed load motion and fluvial process” 7th IAHR Symposium on River, Costal and Estuary Morphodynamics, Beijing, Sep. 06-08, 2011.
- 2010 Keynote lecture “New challenges in sedimentation and erosion research” 11th International Symposium on River Sedimentation, Stellenbosch, South Africa, Sep. 2010.
- 2010 Invited lecture “Habitat diversity and its relation with biodiversity” 8th IAHR International Symposium on Eco-hydraulics, Seoul, South Korea, Sep. 12-17. 2010.
- 2010 Keynote lecture “Grain erosion and management strategies ” International Conference on Sediment Dynamics for a Changing Future, Warsaw, Poland, June 2010.
- 2010 Keynote lecture “Energy dissipation structure of artificial step-pool system to mitigate debris flow hazard” 2010 International Debris Flow Workshop, Chengdu, China, Nov.,2010
- 2010 Invited lecture “A study on grain erosion” International Symposium on Sediment Disasters & River Environment in Mountainous Area, KYOTO, JAPAN, Aug24-27,2010
- 2009 Keynote lecture “Mangement strategies of Reservoir Sedimentation”, International Workshop on Sediment Management Options for Regulated Rivers, Roquetes-Tortosa, Catalonia, Spain, May, 2009.
- 2009 Invited lecture “Gender of Deltas and Parasitizing Rivers”, International Symposium on Recent Development in Nearshore Coastal Water Quality Research, Hong Kong, China, Dec. 2009
- 2009 Invited lecture “River training and ecological restoration”, Workshop on River Morphology and Ecology, Auckland, New Zealand, Jan. 2009.
- 2008 Keynote lecture “Avalanches and landslides induced by the Wenchuan Earthquake and management of quake lakes”, 16th IAHR-APD Congress, Nanking, China, Oct. 2008.
- 2008 Invited lecture “Strategies for Integrated Yellow River Training ” International Symposium on River Training and Development, Tianjin, China, Oct. 2008
- 2008 Keynote lecture “River Ecological Restoration” UNESCO International Sediment Initiative Workshop, Beijing, China, Dec. 2008.

- 2007 Keynote lecture “Debris flow studies in China”, 7th Conference of the Science Council of Asia, Okinawa, Japan, June 2007.
- 2007 Keynote lecture “Step-pool System for Channel Incision Control and Ecological Restoration”, Fourth International Conference on Debris-Flow Hazards Mitigation: Mechanics, Prediction, and Assessment, Chengdu, China, Sep. 2007
- 2007 Keynote lecture “Vegetation-erosion dynamics”, International symposium on Sedimentation and Environment in Arid Areas, Charlooz, Iran, June, 2007
- 2006 Keynote lecture “Vegetation erosion dynamics model and its application”, International Sediment Initiative Conference (ISIC), Khartoum, Sudan, Nov. 2006
- 2006 Keynote lecture “Sediment transportation in the Yangtze River and impacts of the Three Gorges Project” IAHR International Conference on Fluvial Hydraulics - River Flow 2006, Lisbon, Portugal, Sep. 2006.
- 2001 Keynote lecture “Sedimentation studies in China” 29th IAHR World Congress, Beijing, China, Sep, 2001.
- 1998 Invited lecture. “Environmental and ecological impacts of the Three Gorges Projects”, 7th International symposium on river sedimentation, Hongkong, 16-18 Dec. 1998.

Teaching Area

River dynamics and Integrated river management;
 Professional English for hydraulic engineering;
 Philosophy of rivers
 Stream ecology and restoration

Research Area

Sediment transportation and river dynamics;
 Stream ecology and restoration;
 Integrated river management;
 Energy dissipation and geo-hazard mitigation;
 Hyperconcentrated flows and debris flows;
 Watershed vegetation-erosion dynamics;

Working Experience

- Mar. 1969-Aug.1975
 Worker and Technician, The Yellow River Farm, Kenli County, Shandong Province, China
- Aug.1975-Sep.1976
 Driller, Shandong No.3 Geological Survey, Yantai City, China
- Oct. 1976 - Sep. 1979
 Student, Department of Geology, Central South University, Changsha, Hunan Province, China
- Sep. 1979 - May 1985
 Postgraduate student, Ph.D student, China Institute of Water Resources and Hydro-Power Research,
- May 1985 - Feb. 1989
 Research Engineer, Dept. of Sediment Engineering, China Institute of Water Resources and Hydroelectric Power Research.
- March 1989 - July 1989
 Guest scientist, Institute for Hydrologie und Wasserwirtschaft, Universität Karlsruhe, Germany.
- Aug. 1989 - Jan. 1991
 Senior Engineer, China Institute of Water Resources and Hydroelectric Power Research.

Feb. 1991 - Dec. 31, 1994

Research Fellow of the Alexander von Humboldt Foundation, Institute for Wasserbau und Kulturtechnik, Universität Karlsruhe, Germany and Guest Senior Researcher, Institut für Hydrologie und Wasserwirtschaft, Universität Karlsruhe, Germany

Jan 1, 1995 -Jan.2007

Professor and Deputy Secretary General of International Research and Training Center on Erosion and Sedimentation, Chief Editor of the International Journal of Sediment Research

Nov. 1999-April 2017

Professor, Dept. of Hydraulic Engineering, Tsinghua University, China.

2017 -today

Emeritus Professor, Tsinghua University, China

2001-2007

Guest Professor, the University of Hong Kong, 3 months per year.

2004 -today

Chairman, Advisory Council of International Research and Training Center on Erosion and Sedimentation.

2004 - 2010

Secretary-General, World Association for Sedimentation and Erosion Research.

2005 - 2009

Council member of International Association for Hydraulic Engineering and Research (IAHR)

2010-2016

Vice president, World Association of Sedimentation and Erosion Research (WASER)

2011 -2015

Vice president of International Association for Hydraulic and Environmental Engineering Research (IAHR)

2016-2022

President, World Association of Sedimentation and Erosion Research (WASER)

2022- today

Guest professor, Macau University of Science and Technology (MUST)

Research Grants

June 1986 - Feb. 1991

Second Principal Investigator: "Physical Model Study on Sedimentation and Navigation in the Upstream Reach of the Yangtze River Three Gorges Reservoir" Ministry of Water Resources of China

June 1986 - June 1987

Principal Investigator (PI) "Scale model study of emptying and scouring of cohesive deposits from the Zhuwo Reservoir" Beijing Water Resources Bureau.

Jan. 1988 - Dec. 1990

PI: Research project "One-phase and solid-liquid two-phase flows of non-Newtonian fluids" National Natural Science Foundation of China.

May 1990 - Feb. 1991

Second PI "Physical model study on the prevention of sedimentation in the Yellow River Xiaolangdi Reservoir". Ministry of Water Resources of China

July 1990 - Feb. 1991

PI of the research project "Effects of suspended sediment on dispersion of contaminants in open channel flow"

March 1995 - Oct. 1997

Executive Expert for the UNDP Project "Support for the Sustainable Development of the Yellow River Delta", UNDP No.CPR 91/144.

Jan. 1995 - March 1998

PI of the research project "Unsteady sediment transport and Hyperconcentrated flow". National Natural Science Foundation of China

1994 - 1998

Organizer of the Sino-German cooperative studies on unsteady sediment transport. The

- cooperation was supported by the Volkswagen Stiftung (VW Foundation of Germany) and NSFC.
- 1998-2002
PI, Key Research Project "Mechanism of River Sedimentation Disasters and Control and Mitigation Strategies" National Natural Science Foundation of China (NSFC) and the Ministry of Water Resources of China.
- 2000-2002
PI, Joint Research Project "Water, Sediment and Pollutants interaction in the estuarine waters-with particular reference to the Deep Bay and Bohai Bay" Hong Kong Research Grant Council and National Natural Science Foundation of China
- 2002-2003
Second PI, Research project "Impacts of Tongguan's Elevation on the Fluvial Process and Flood Defense of the Lower Weihe River " Ministry of Water Resources of China
- 2003-2004
PI, Research project "Fluvial Process and Risk Analysis on the Training projects in the Lower Yellow River " The Yellow River Commission
- 2003-2006
PI, Research project "Vegetation-erosion dynamics and its application" National Natural Science Foundation of China
- 2004-2007
PI, Joint research project "Integrated Physical and Ecological Management of Rivers – with Particular Reference to the East River" Hong Kong Research Grant Council and National Natural Science Foundation of China
- 2004-2008
PI, Research project "Ecological study and optimization of operation scheme of hydro-projects on the Yangtze River", 973 program of the Ministry of Science and Technology of China
- 2004-2008
PI, Research project, "Sediment Transportation and River Management " National Natural Science Foundation of China.
- 2005-2007
PI, Sino-Dutch joint research project "Predictive modelling of sediment transport and morphology in the Lower Yellow River" Ministry of Water Resources of China and Dutch Ministry of Construction.
- 2008-2010
PI, Research Project, "Management and mitigation of chain disasters of mass movements and debris flows induced by the Wenchuan Earthquake", 973 program of the Ministry of Science and Technology of China
- 2009-2012
PI, Research Project, "Control strategy of golden mussel (*Limnoperna fortunei*) invasion into water transfer tunnels", National Commonweal Research Program. Ministry of Water Resources of China
- 2010-2012
PI, National Research Project, "Stream networks and ecological management of the Sanjiangyuan Region", Ministry of Science and Technology. National Natural Science Foundation of China
- 2010-2012
PI, Research Project "Knickpoints on the Yalutsangpo River and Ecology", National Natural Science Foundation of China
- 2014-2015
PI, Research Project "Study on biofouling caused by *Limnoperna fortunei* and control strategies in the Langyashan pumped-storage power plant". Xinyuan Hydro-power Company
- 2015- 2018
PI, Research Project "Fluvial process of barrier lakes in the Nujiang River and their impact on stream ecology", National Natural Science Foundation of China

Representative publications

- 1 Wang Zhaoyin and Qian Ning (Ning Chien), 1984, Experimental study of two-phase turbulent flow with hyperconcentration of coarse particles, *Scientia Sinica (English Version)*, Ser. A, Vol. 27, No. 12, pp. 1317-1327
- 2 Wang Zhaoyin and Qian Ning, 1985, Experimental study of motion of laminated load, *Scientia Sinica, (English Version) Ser. A*, Vol. 28, No.1, pp. 102-112.
- 3 Wang Zhaoyin and Qian Ning, 1985, A preliminary investigation on the mechanism of hyperconcentrated flow, *Proceedings of International Workshop on Flow at Hyperconcentration of Sediment*, IRTCES (International Research and Training Center on Erosion and Sedimentation), Beijing, China, P. II-4, pp.1-20.
- 4 Wang Zhaoyin and Qian Ning, 1987, Laminated load: Its development and mechanism of motion, *International Journal of Sediment Research*, No. 2, pp. 102-124.
- 5 Wang Zhaoyin, 1987, Buoyancy force in solid-liquid mixture, *Proceedings, 22-nd Congress of the International Association for Hydraulic Research, Fluvial Hydraulics, IAHR, Lausanne, Switzerland*, Sept. pp. 86-91.
- 6 Wang Zhaoyin and Qian Ning, 1989, Characteristics and mechanism of debris flow, *Proceedings, Fourth International Symposium on River Sedimentation*, IRTCES and Ocean Press, Beijing, China, pp.722-729.
- 7 Lu Xiuzheng, Zeng Qinghua and Wang Zhaoyin, 1989, Physical model study of sedimentation and influence on navigation in fluctuating backwater region of a reservoir, *Proceedings, Fourth International Symposium on River Sedimentation*, IRTCES and Ocean Press, Beijing China, pp. 1023-1030.
- 8 Wang Zhaoyin, 1990, Limit concentration of suspended sediment, *Proceedings, Hydraulics and Hydrology of Arid Land*, American Society of Civil Engineers, New York, pp. 651-656.
- 9 Wang Zhaoyin and Zhang Xinyu, 1990, Initiation and laws of motion of debris flow, *Proceedings of Hydraulics and Hydrology of Arid Land*, American Society of Civil Engineers, pp. 596-601.
- 10 Wang Zhaoyin and Kron Wolfgang, 1991, Time distortion in large scale sediment model test, *Journal of Hydraulic Research, IAHR*, Vol. 29, No. 2, pp. 161-178 .
- 11 Wang Zhaoyin and Zeng Qinghua, 1991, Laboratory studies on mechanisms of various phenomena in debris flow, *Proceedings, International Symposium on Debris Flow and Flood Disaster Protection*, China, pp. 21-31.
- 12 Wang Zhaoyin, 1992, Model experiment on non-Newtonian fluid flow, *Proceedings, 5th International Symposium on River Sedimentation*, Vol. 1, Karlsruhe, Germany, April, Edited by P. Larsen and N. Eisenhauer, pp. 409 - 416.
- 13 Wang Zhaoyin and Dittrich Andreas, 1992, A study on problems in suspended sediment transportation, *Proceedings, 2nd International Conference on Hydraulics and Environmental Modelling of Coastal, Estuarine and River Waters*, Ashgate, England, pp. 467-478.
- 14 Chen Janguo, Zeng Qinghua and Wang Zhaoyin, 1992, Characteristics and sediment transport in ice covered flow, *Proceedings, 5th International Symposium on River Sedimentation*, Vol. 1, Karlsruhe, Germany, April, Edited by P. Larsen and N. Eisenhauer, pp. 423-430.
- 15 Wang Z., Kron W., Lu X., and Xu M., 1993, Uncertainty of sediment discharge, siltation and erosion in rivers and implications on hydraulic works, *Publication Series, Inst. for Hydrology and Water Resources Planning (IHW), Karlsruhe University*, No. 46, pp. D1-D38.
- 16 Wang Zhaoyin, Lin Bingnan and Zhang Xinyu, 1993, Instability of non-Newtonian fluid flow, *Publication Series, No. 42, Inst. foer Hydrologie u. Wasserwirtschaft, Universitaet Karlsruhe, Germany*, pp. E1-E23.
- 17 Wang Zhaoyin, 1993, A study on debris flow surges, *Hydraulic Engineering '93*, vol. 2, American Society of Civil Engineers, New York, pp. 1616-1621.
- 18 Wang Zhaoyin, Kron Wolfgang, Lu Xiuzheng, and Plate Erich J., 1993, Flume experiments on sediment transport, erosion and siltation of a channel bed in unsteady and non-uniform flow conditions, *Publication Series, Inst. for Hydrology and Water Resources Planning (IHW), Karlsruhe University*, No. 46, pp. B1-B82.
- 19 Wang Zhaoyin, 1994, An experimental study of motion and deposition of gold particles in a mountain river, *Journal of Hydraulic Research, IAHR*, Vol. 32, No. 5, pp. 643-648 .

- 20 Wang Zhaoyin and Larsen Peter, 1994, Turbulent structure of flows of water and clay suspensions with bed load, *Journal of Hydraulic Engineering*, ASCE, Vol. 120, No. 5, pp. 577-600.
- 21 Wang Zhaoyin, Larsen Peter and Xiang Wei, 1994, Rheological properties of sediment suspensions and their implications, *Journal of Hydraulic Research*, IAHR, Vol. 32, No.4, pp. 495-516 .
- 22 Klein P., Rau M., Wang Z. and Plate E.J., 1994, Ermittlung des Stroemungs- und Konzentrationsfeldes im Nahfeld typischer Gebuedekonfigurationen (Experimente), Research Report, Inst. foer Hydrologie und Wasserwirtschaft, Universitaet Karlsruhe, Germany.
- 23 Wang Zhaoyin, Kron Wolfgang and Plate E.J., 1994, An experimental study of bed deformation in unsteady and non-uniform flows, *International Journal of Sediment Research*, Vol. 9, No. 3, pp. 206-215.
- 24 Wang Zhaoyin, Nestmann F., and Dittrich A., 1995, Fall velocity of sediment in clay suspensions, *Proceedings, 6th International Symposium on River Sedimentation*, New Delhi, India, pp. 377-385.
- 25 Wang Zhaoyin, Ren Yumin and Wang Xinkui, 1995, Total pressure velocimeter for the measurement of turbulence in sediment-laden flows, *Proceedings, 2nd International Conference on Hydro-Science and Engineering*, CHES and IRTCES, March, Beijing, China, pp. 1875-1882.
- 26 Wang Zhaoyin and Plate Erich J., 1996, A Preliminary study on turbulence structure of flow of non-Newtonian fluid, *Journal of Hydraulic Research*, IAHR, Vol. 34, No. 3, pp. 345-362.
- 27 Wang Zhaoyin, Plate E.J., Rau M., and Kaiser P., 1996, Scale effects in wind tunnel modelling, *International Journal of Wind Engineering and Industrial Aerodynamics*, Vol. 61, pp.113-130.
- 28 Wang Zhaoyin and Plate Erich J. 1996, Power spectrum of flows of hyperconcentrated clay suspensions, *Stochastic Hydraulics'96*, A.A. Balkema Publishers, Rotterdam, The Netherlands, pp. 645-652.
- 29 Wang Zhaoyin and Pang Bingdong, 1996, Discussion on "Researches on environmental changes and water and sediment transport of the Yellow River Basin", *International Journal of Sediment Research*, Vol. 11, No. 2, pp. 69-74.
- 30 Wang Zhaoyin, 1996, UNDP project support for the sustainable development of the Yellow River Delta, *International Journal of Sediment Research*, Vol. 11, No. 3, pp. 40-48.
- 31 Wang Zhaoyin, Lin Bingnan, and Nestmann Franz, 1997, Prospect of sediment research, *International Journal of Sediment Research*, Vol. 12, No. 1, pp. 1-15.
- 32 Wang Zhaoyin, Huang Jinchi, and Su Dehui, 1997, Scour rate formula, *International Journal of Sediment Research*, Vol. 12, No. 3, pp. 11-20.
- 33 Zhu Hugen, Wang Zhaoyin, and Prinz D. 1997, The adverse impact of human activities of flood control in the Huaihe Basin, *International Journal of Sediment Research*, Vol. 12, No. 3, pp. 317-324.
- 34 Wang Zhaoyin, 1998, Problems of water and soil resources and management strategies in China, Invited Lecture, *Proceedings , 3rd International Conference on Hydrosience and Engineering*, Cottbus, Germany.
- 35 Wang Zhaoyin, 1998, The Yellow River sedimentation-New problems and new strategies, Invited Lecture, *7th International Symposium on River Sedimentation*, Hong Kong, in *River Sedimentation-Theory and Applications*, A.A.Balkema Publishers, pp. 797-806.
- 36 Wang Zhaoyin, Larsen P., Nestmann F., and Dittrich A., 1998, Resistance and drag reduction of hyperconcentrated flows over rough boundaries, *Journal of Hydraulic Engineering*, ASCE, Vol. 124, No. 1, pp. 1-9.
- 37 Wang Zhaoyin, 1998, Stabilization of the Yellow River channel and development of the delta, *International Journal of Sediment Research*, Vol. 13, No. 2., pp. 1-15.
- 38 Wang Zhaoyin, 1999, Experimental study on scour rate and channel bed inertia, *Journal of Hydraulic Research*, IAHR, Vol. 37, No. 1, pp. 17-38.
- 39 Winzen K., Wang Zhaoyin, and Dittrich A., 1999, Intermittent and continuous behavior of debris flow, *International Journal of Sediment Research*, Vol. 14, No. 1, pp. 62-69.
- 40 Wang Zhaoyin, 1999, Mountainous Hazards in China, Publication series, German IDNDR Commission, 48 p.
- 41 Wang Zhao-Yin and Dittrich A., 1999, Effect of particle's shape on incipient motion of sediment, *International Journal of Sediment Research*, Vol. 14, No. 2, pp. 179-186.
- 42 Hu Shixiong and Wang Zhaoyin, 1999, Shrinkage of the estuarine channels and control strategies in the Haihe drainage system, *International Journal of Sediment Research*, Vol. 14, No. 2, pp. 65-76.

- 43 Wang Zhaoyin, Soong T., and Yen B.C., 1999, eds. Sediment Transport and Disasters, International Research and Training Center on Erosion and Sedimentation, 451 p.
- 44 Wang Zhaoyin, Wai Onyx W.H., and Cui Peng, 1999, Field investigation on debris flows, *International Journal of Sediment Research*, Vol. 14, No. 4, pp. 10-23.
- 45 Wang Xiangdong and Wang Zhaoyin, 1999, Effect of land use on runoff and sediment yield, *International Journal of Sediment Research*, Vol. 14, No. 4, pp. 59-66.
- 46 Wang Zhaoyin and Liang Zhiyong, 2000, Dynamic characteristics of the Yellow River Mouth, *Earth Surface Processes and Landforms*, Vol. 25, pp. 765-782.
- 47 Wang Zhaoyin and Wai Onyx, 2000, Stochastic nature of sediment transportation, *Stochastic Hydraulics*, Balkema Publishers, Rotterdam, pp. 247-254.
- 48 Wang Zhaoyin, 2000, History and strategies of flood defense in China, Invited Lecture, Proceedings, International Symposium on Flood Defence, in *River Flood Defence*, Junkes Verlag, Kassel, Germany, Vol.1, pp. 11-25.
- 49 Wang Xingkui, Wang Zhaoyin, and Li Danxun, 2001, Velocity profile of sediment suspensions and comparison of log-law and wake-law, *Journal of Hydraulic Research*, IAHR, Vol. 39, No. 2, pp. 211-217.
- 50 Wang Zhaoyin and Wu Yongsheng, 2001, Sediment-removing capacity and river motion dynamics, *International Journal of Sediment Research*, Vol. 16, No. 2, pp. 105-115.
- 51 Xu Y., Liang Z., and Wang Z.Y., 2001, Fluvial processes and sediment scour rate of the Yellow River under action of unsteady flows, *International Journal of Sediment Research*, Vol. 16, No. 2, pp. 296-300.
- 52 Wang Zhaoyin, Wu Yongsheng, and Wang Guangqian, 2001, Eutrophication and red tide as a consequence of economic development, *International Journal of Sediment Research*, Vol. 16, No. 4, pp. 508-518.
- 53 Wang Zhaoyin and Lin Bingnan, 2001, Sedimentation studies in China-present and future, Keynote Lecture, Proceedings, 29th IAHR Congress, Beijing, China, Tsinghua University Press, pp.54-73.
- 54 Hu Shixiong and Wang Zhaoyin, 2001, Study on the flood control and shrinkage of the Haihe River mouth, *Science in China, Series B*, Vol. 44, pp. 240-248.
- 55 Wu Yongsheng, Lian Jijian, Wang Zhaoyin, 2001, Effect of suspension on mean velocity profile under wave-current combined flow, *Science in China, Series B*, Vol. 44, pp. 99-106.
- 56 Wang Zhaoyin, Wang Guangqian, and Wang Xingkui, 2001, Ning Chien-the leader of sediment studies in China, Proceedings of Memorial Symposium, 29th IAHR Congress, pp. 35-47.
- 57 Wang Zhaoyin, 2002, Free surface instability of non-Newtonian laminar flows. *Journal of Hydraulic Research*, IAHR, Vol. 40, No. 4, pp. 449-460.
- 58 Wang ZhaoYin and Erich J. Plate, 2002, Recent flood disasters in China, *Water and Maritime Engineering*, No.3, pp.177-188.
- 59 Wu Yongsheng and Wang Zhaoyin, 2002, Numerical simulation of 1998 red tide of the Bohai Sea, *International Journal of Sediment Research*, No.3, pp.175-185.
- 60 Wang ZhaoYin, 2002, Initiation and mechanism of two-phase debris flow, in Wu, Wang et al. (eds), *Flood Defence' 2002*, Science Press New York Ltd., Vol. II, pp.1637-1648.
- 61 Bai Yuchuan, Wang Zhaoyin, Shen Huanting, and Wang Shangyi, 2003, Three-dimensional modeling of sediment transport and the effects of dredging in the Haihe Estuary, *Estuarine, Coastal and Shelf Science*, Vol. 56, pp. 175-186.
- 62 Wang Zhaoyin, 2003, Sedimentation in the Yellow River and estuary management strategies. From Watershed Slope to Coastal Areas: Sedimentation Processes at Different Scales, UNESCO-ICCORES Workshop 2003, Section 3, pp. 1-21.
- 63 Wang Zhaoyin, Hu Shixiong, Wu Yongsheng, and Shao Xuejun, 2003, Delta process and management strategies in China, *International Journal of River Basin Management*, IAHR, Vol. 1, No. 2, pp. 173-184.
- 64 Shao Xuejun, Wang Hong, and Wang Zhaoyin, 2003, Interbasin transfer projects and their implications: A China case study, *International Journal of River Basin Management*, Vol. 1, No. 1, pp. 5-14.
- 65 Wang Z.Y., Huang G.H., Wang G.Q., and Gao J., 2004, Modeling of vegetation-erosion dynamics in watershed systems. *Journal of Environmental Engineering*, ASCE, Vol. 130, No. 7, pp. 792-800.
- 66 Wang Zhaoyin and Lin Bingnan, 2004, Sediment studies and management strategies in China, *International Journal of River Basin Management*, IAHR, Vol. 2, No. 1, pp. 39-50.

- 67 Liu C., Wang Z.Y., and Cheng D.S., 2004, Nitrogen and phosphorus pollution of the river mouths around the Bohai Bay. Proceedings, Ninth International Symposium on River Sedimentation, Yichang, pp. 434-439.
- 68 Liu Cheng, Hu Chunhong and Wang Zhaoyin, 2004, Water and sediment pollutions and their changes at the Yellow River mouth. Advances in Hydro-Science and -Engineering, Vol. VI, Proceedings, 6th International Conference on Hydro-Science and -Engineering, Brisbane, pp. 313
- 69 Wang Zhaoyin, Xu Jiang, and Li Chang-Zhi, 2004, Development of step-pool sequence and its effects in resistance and stream bed stability, International Journal of Sediment Research, Vol. 19, No. 3, pp. 161-171.
- 70 Wang Zhaoyin and Hu Chunhong, 2004, Interactions between fluvial systems and large scale hydro-projects. Keynote lecture, Proceedings, Ninth international Symposium on River Sedimentation, Yichang, China, pp.46-64.
- 71 Wang Zhaoyin and Lee J. H. W.. 2004, Environmental and ecological impacts of the Three Gorges Project on the Yangtze River, Invited lecture, Proceedings, 14th Congress of IAHR-APD, Balkema Publishers.
- 72 Wu, B.S., Wang, G.Q., and Wang, Z.Y., 2004, Effect of changes in flow runoff on the elevation of Tongguan in Sanmenxia Reservoir, Chinese Science Bulletin, Vol. 49, No. 15, pp. 1658-1664.
- 73 Wu B.S., Wang Z.Y., and Li C.Z., 2004, Yellow River basin management and current issues, Journal of Geographical Sciences, 14, Supplement, pp. 29-37.
- 74 Wang Zhaoyin and Lee Joseph H.W., 2004, Integrated River Management. Textbook for Ph D. students, Tsinghua University.
- 75 Wang G.Q., Wu B.S., and Wang Z.Y., 2005, Sedimentation problems and management strategies of Sanmenxia Reservoir, Yellow River, China, Water Resources Research, Vol. 41, No. 9, Art. No. W09417. Doi:10.1029/2004WR003919.
- 76 Wang Zhaoyin, Lee Joseph H.W., and Cheng Dongsheng, 2005, Impacts of the TGP project on the Yangtze River ecology and management strategies, International Journal of River Basin Management, IAHR, Vol. 3, No. 4, pp. 237-246.
- 77 Wang Z.Y., Wang G.Q., and Li C.Z., 2005, A preliminary study on vegetation-erosion dynamics and its applications, Science in China, Series D-Earth Sciences, Vol. 48, No. 5, pp. 689-700.
- 78 Wang Zhaoyin, Wang Guang-Qian, and Liu Cheng, 2005, Viscous and two-phase debris flows in southern China's Yunnan Plateau, Water International, Vol. 30, No. 1, pp. 14-23.
- 79 Cheng Dongsheng, Wang Zhaoyin, Xu Jiongxin, and Liu Cheng, 2005, Relationships between ionic concentration and water and sediment in the lower Weihe River, Environmental Hydraulics and Sustainable Water Management, Taylor and Francis Group, London, pp. 2301-2306.
- 80 Liu Cheng, He Yun, Wang Zhaoyin, Wei Heping, 2005, Study on the measures to prevent severe sedimentation in the large inverted siphons for a sewage system, Environmental Hydraulics and Sustainable Water Management, Taylor and Francis Group, London, pp.2243-2249.
- 81 Li Changzhi, Wang Zhaoyin, and Wu Baosheng, 2005, Impacts of Tongguan's elevation on the flood defense in the lower Weihe River, Environmental Hydraulics and Sustainable Water Management, Taylor and Francis Group, London, pp.1541-1548.
- 82 Wang Zhaoyin, 2005, Environmental and ecological impacts of the Three Gorges Project on the Yangtze River, Environmental Hydraulics and Sustainable Water Management, Taylor and Francis Group, London, pp.77-86.
- 83 Li Changzhi, Wang Zhaoyin, Wu Baosheng, and Wang Wenlong, 2006, Impact of elevation at Tongguan on flood defence in the lower Weihe River, International Journal of River Basin Management, IAHR, Vol. 4, No. 1, pp. 57-63.
- 84 Cheng Dongsheng, Wang Zhaoyin, Xu Jiongxin, and Liu Cheng, 2006, Relationships between concentration of ions and water and sediment in the Weihe River basin, International Journal of River Basin Management, IAHR, Vol. 4, No. 1, pp. 65-73.
- 85 Wang Zhaoyin and Li Yitian, 2006, Keynote lecture, Sediment transportation in the Yangtze River and impacts of the Three Gorges Project, River Flow 2006, Taylor and Francis Group, London, pp.61-75.
- 86 Yi Y.J., Wang Z.Y. and Lu Y.J., 2006, Habitat suitability index model of four major Chinese carp species in the Yangtze River, River Flow 2006, Taylor and Francis Group, London, pp.2195-2201.
- 87 Lu Y.J., Xu C.W., Zuo L.Q. and Wang Z.Y., 2006, Changes of sediment deposition and erosion at Chongqing reach in backwater area of Three Gorges Project, River Flow 2006, Taylor and Francis

- Group, London, pp.2179-2187.
- 88 Wang Wenlong, Wang Zhaoyin, Lei Alin, and Tang Keli, 2006, Space-time distribution of runoff in vertical belts of soil erosion chain in loess region, 2nd International Symposium on Soil Erosion and Dry-Land Farming, Yangling, Shaanxi, China.
 - 89 Wang Zhaoyin, Li Yitian and He Yiping, 2007, Sediment budget of the Yangtze River, *Water Resources Research*, vol.43, pp.1-14.
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Professional Certification and Awards

- 1988 Ning Chien Prize, awarded by the IRTCES, Ministry of Water Resources
- 1989 Title of “Scientist who has made great contributions on sediment studies for the Three Gorges Project” Awarded by the Ministry of Water Resources of China
- 1990 Title of “Doctor who has made great contributions for the country” awarded by the Ministry of Education of China.
- 1994 First Outstanding Young Scientist Research Fund awarded by the Chinese government.
- 1995 Ministry of Water Resources of China: First Science and Technology Progress Prize “Physical model study on sedimentation in the fluctuating backwater region of the Three Gorges Project”.
- 1996 Ministry of Water Resources of China: Third Science and Technology Progress Prize “Instability of non-Newtonian fluid flow”,
- 1996 Ministry of Water Resources of China: Second Science and Technology Progress Prize “Training and water resources management of the Yellow River delta”
- 1997 Ministry of Water Resources of China: Third Science and Technology Progress Prize “Drag reduction of hyperconcentrated flow on rough boundaries”,
- 2004 Ministry of Education of China: First Science Prize “Modern Theory of Sediment Transportation”,
- 2006 Ministry of Education of China: Second Science Prize “Hyperconcentrated flow”,
- 2007 National Science Prize of China: Second Science and Technology Progress Prize “Complex responses of the fluvial process in the Yellow River to the water and sediment changes”
- 2009 Title of “Outstanding scientist in field scientific researches” awarded by the ministry of science and technology
- 2011 **2011 Hans Albert Einstein Award, awarded by the American Society of Civil Engineers.**
- 2011 Vice president of International Association of Hydraulic and Environmental Engineering Research, Chairman of Environmental Hydraulics Division
- 2012 First prize of the ministry of transportation No.3

Journal Editorship

- 1996-1997 Executive chief editor, International Journal of Sediment Research,
- 1998-2013 Chief editor, International Journal of Sediment Research
- 2003 - Associate Editor, International Journal of River Basin Management. International Association for Hydraulic Engineering and Research (IAHR)
- 2006- Associate editor of Journal of Environmental Informatics (JFI)

Personal Website (no personal webpage)