

CURRICULUM VITAE

Yubin Zeng

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PERSONAL

Position: Associate professor, vice director of Water Quality Engineering

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EDUCATION

B. Eng. – Department of Chemical Engineering, East China University of Science and Technology, China (1991).

M. Sc. – Department of Applied Chemistry, Huazhong University of Science and Technology, China (2000).

Ph. D. – Department of Environmental Science and Engineering, Huazhong University of Science and Technology, China (2007).

Post-doctor fellowship – Department of Civil and Environmental Engineering, Seoul National University, Korea (2009).

TEACHING

1. Separation Processes of Chemical Engineering (to graduate students)
2. Theory and Technology of Water Treatment (to undergraduate students)
3. Water Treatment Experiment (to undergraduate students)
4. Wastewater Reuse Technology (to undergraduate students)

RESEARCH

Research interests

1. Water and wastewater treatment for reuse.
2. Environmental nanomaterials and technology.
3. Remediation of ground and underground water.

Research in progress

1. Funds supported from industry. "Treatment and reuse of high salt wastewater with high temperature from oil field", Project Leader.
2. Funds supported from industry. "Biologic treatment and discharge of wastewater from heavy oil' process and production", Project Leader.
3. Open Funds for State Key Lab of Biogeology and Environmental Geology, China (GBL21311): "Study on remediation of chlorinated hydrocarbons by nano composite materials/microorganism", Project Leader.
4. National planning project on innovation and entrepreneurship training of China University (201410486051): "Research on mechanism and application on organic molecule modification of nano core-shell magnetic composite", Project Leader.
5. National planning project on innovation and entrepreneurship training of China University (1310486049): "Technology of removing heavy metal and organic pollutants in synchronize from contaminated water", Project Leader.

Research experience

1. BK funds from Department of Education and Science and Technology, Korea. "Remediation of underground water contaminated by chromate", Project Leader.
2. National planning project on innovation and entrepreneurship training of Chian University (1210486047): "Remediation of heavy metals from contaminated water using nanostructured composite materials", Project Leader.
3. Supported from industry. "Treatment of heavy oil wastewater and reuse in the steam generator", Project Leader.
4. Supported from industry. "Treatment of produced polymer wastewater from oilfield", Project

Leader.

Selected references

1. Y.B. Zeng, Z.Y. Zeng, J.L. Wang, Adsorption removal of humic acid from micro-polluted water using in situ manganese dioxide, *International Journal of Water and Waste Water Treatment*, accepted.
2. Y.B. Zeng, Z.Y. Zeng, J.L. Wang, Enhanced coagulation with in situ manganese dioxide on removal of humic acid in micro-polluted water, *Water Science & Technology*, 72.3 (2015) 406–415.
3. Y.B. Zeng, Z.Y. Zeng, J.T. Yu, F. Zhang, Adsorption performance and mechanism of perchloroethylene on a novel nano composite b-FeOOH-AC, *Microporous and Mesoporous Materials* 210 (2015) 60–68.
4. Y.B. Zeng, H.S. Woo, G.H. Lee, J.B. Park, Adsorption of Cr(VI) on hexadecylpyridinium bromide (HDPB) modified natural zeolites, *Microporous and Mesoporous Materials* 130 (2010) 83–91.
5. Y.B. Zeng, H.S. Woo, G.H. Lee, J.B. Park, Removal of chromate from water using surfactant modified Pohang clinoptilolite and Haruna chabazite, *Desalination* 257 (2010) 102–109.
6. Y.B. Zeng, J.B. Park, Characterization and coagulation performance of a novel inorganic polymer coagulant—Poly-zinc-silicate-sulfate, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 334 (2009) 147–154.
7. Y.B. Zeng, C.Z. Yang, J.D. Zhang, W.H. Pu, Feasibility investigation of oily wastewater treatment by combination of zinc and PAM in coagulation/flocculation, *Journal of Hazardous Materials* 147 (2007) 991–996.
8. Y.B. Zeng, C.Z. Yang, W.H. Pua, X.L. Zhang, Removal of silica from heavy oil wastewater to be reused in a boiler by combining magnesium and zinc compounds with coagulation, *Desalination* 216 (2007) 147–159.
9. Y.B. Zeng, Y.J. Wang, X.L. Zhang, S.Y. Ran, Z.M. Zhu, Pilot study on the treatment of produced wastewater from heavy oil to be reused in steam boiler, *Chinese Journal of Industrial Water Treatment* 27 (7) (2007) 20–23.

10. Y.B. Zeng, X.L. Zhang, D.W. Yang, S.Y. Ran, Z.M. Zhu, Study on treatment of heavy oil wastewater to be reused in boiler by modified fibre ball, *Chinese Journal of Industrial Water & Wastewater* 38 (3) (2007) 66–69.
11. Y.B. Zeng, D. Chen, Removal of methylene blue from water by magnetic $\gamma\text{-Fe}_2\text{O}_3/\text{SiO}_2$ nanoparticles, under review.
12. Y.B. Zeng, W.S. Wang, Z.Y. Zeng, J.W. Pan, Removal of Cr(VI) from aqueous solutions using nano-structured $\beta\text{-FeOOH}$ -coated surfactant-modified zeolite, under review.