

## ประวัติผู้วิจัย

ดร. ชนัตต์ โชคเจริญรัตน์

**Chanat Chokejaroenrat, Ph.D.**



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### Educational Background:

2008 – 2012	<b>Ph.D. Major: Engineering</b> University of Nebraska – Lincoln, Nebraska, USA
2005 – 2008	<b>M.S. Major: Environmental Engineering</b> University of Nebraska – Lincoln, Nebraska, USA
1996 – 2000	<b>B.Eng. Civil Engineering (2<sup>nd</sup> Honor)</b> King Mongkut's University of Technology Thonburi, Bangkok, Thailand

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### Research Grants:

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| (4) 2015 | <u>Project Leader</u> - Removing a potent natural hormone (17 $\beta$ -Estradiol) from water by ultraviolet (UV) light-activated persulfate oxidation, Suranaree University of Technology <b>(394,000 THB)</b>   |
| (3) 2014 | <u>Co-PI</u> - Using combined approach between slow-release permanganate candles and biodegradation to remediate 17 $\beta$ -Estradiol (E2) in contaminated water, National Science and Technology Development Agency <b>(250,000 THB)</b>                                 |
| (2) 2014 | <u>Co-PI</u> - Treatment of chromium (VI) from contaminated water by chemical and biological approaches, Department of Veterinary technology, Faculty of Veterinary Technology, Kasetsart University <b>(250,000 THB)</b>  |
| (1) 2013 | <u>Project Leader</u> - Evaluation of enhanced persulfate-ISCO performance by using controlled-release activated persulfate to remove chemical residuals in the subsurface, Institute of Research and Development, Suranaree University of Technology <b>(100,000 THB)</b> |

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### International Publications:

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| (10) 2016 | C. Sakulthaew, and <b>C. Chokejaroenrat</b> . Oxidation of 17 $\beta$ -estradiol in water by slow-release permanganate candles. Environmental Engineering Science (Submitted)                       |
| (9) 2015  | C. Sakulthaew, S.D. Comfort, <b>C. Chokejaroenrat</b> , C. Harris, and X. Li Removing PAHs from urban runoff water by combining ozonation, adsorption and biodegradation. Chemosphere 141, 265–273. |
| (8) 2015  | <b>C. Chokejaroenrat</b> , C. Sakulthaew, T. Satapanajaru, T. Tikhamram, A. Pho-Ong, and T. Mulseesuk. Treating methyl orange in a two-dimensional flow tank by in situ chemical                    |

oxidation using slow-release persulfate activated with zero-valent iron. Environmental Engineering Science 32(12) 1007-1015.

- (7) 2015 N. Kananizadeh, **C. Chokejaroenrat**, S.D. Comfort, and Y. Li. Modeling Improved ISCO treatment of low permeable zones via viscosity modification: Assessment of system variables. Journal of Contaminant Hydrology 173: 25-37.
- (6) 2014 C. Sakulthaew, S.D. Comfort, **C. Chokejaroenrat**, C. Harris, and X. Li. A combined chemical and biological approach to transforming and mineralizing PAHs in runoff water. Chemosphere 117: 1 – 9.
- (5) 2014 **C. Chokejaroenrat**, S.D. Comfort, C. Sakultahew, and B.I. Dvorak. Improving the treatment of non-aqueous phase TCE in low permeable zones with permanganate. Journal of Hazardous Material 268:177 – 184.
- (4) 2013 **C. Chokejaroenrat**, N. Kananizadeh, C. Sakultahew, S.D. Comfort, and Y. Li. Improving the sweeping efficiency of permanganate into low permeable zones to treat TCE: Experimental results and model development. Environmental Science and Technology 47:13031-13038.
- (3) 2012 A. Kambhu, S.D. Comfort, **C. Chokejaroenrat**, and C. Sakultahew. Developing slow-release persulfate candles to treat BTEX contaminated groundwater. Chemosphere 89:656–664.
- (2) 2011 **C. Chokejaroenrat**, S.D. Comfort, C. Harris, D. Snow, D. Cassada, C. Sakulthaew, and T. Satapanajaru. Transformation of Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) by permanganate. Environmental Science and Technology 45:3643-3649.
- (1) 2010 J.A. Albano, S.D. Comfort, V. Zlotnik, T. Halihan, M. Burbach, **C. Chokejaroenrat**, S. Onanong, and W. Clayton. In situ chemical oxidation of RDX-contaminated ground water with permanganate at the Nebraska Ordnance Plant. Ground Water Monitoring & Remediation 30:96-106.