## Nan ZHANG



\ <del>\$</del>	Gender: Female	Date of birth: Jan, 1	.989
	<b>Cell:</b> +86-134264002	E-mail: nanpse@gr	mail.com Education
Tsinghua University	Chemical Engineering	Ph.D. Candidate, GPA 91.7/100, rank 2/98	8 2010-2015
Tsinghua University	Economics, second Major	B.S., excellent thesis (Economics division), 1	10/152 2007-2010
Tsinghua University	Chemical Engineering	B.S., excellent thesis (Ch. E. division), 5/118	; outstanding graduate, 5% 2006-2010
Research/P	roject		
<ul> <li>Process simula</li> <li>Local stabiliza</li> <li>Eliminate unfa</li> <li>CFD simulation of Using Compute</li> <li>CFD Simulation</li> <li>Effectiveness of Pricing strategy a</li> <li>Provide strategy</li> <li>Based on indu</li> <li>University of Penni-Modelling of Coperating Strategy</li> </ul>	ation and optimization of Co tion of Hopf bifurcation bas avorable oscillation/introducion of cracking furnace sational Fluid Dynamics and on of Propane Cracking Tube of twisted slices: CFD simul- and quality control in mark gies for entrant (Johnson & J strv organization theorv and nsylvania, Philadelphia CLRP (Controlled/Living Ra tegies to yield highly control	ohnson) with vertical product differer behavioral economics: excellent thesi <b>Research associate</b> dical Polymerization) processes lled micro-structure, polydispersity, an	ucturing s in nonlinear control systems Sep. 2010- Nov. 2012 nulate plant-level cracking furnace chanism visted slices Nov. 2009 - Apr. 2010 ntiation is Work Experience Nov. 2012- Nov. 2013
-	cation based on Computatio of High-tech Zone, Hubei	nal Singular Perturbation theory Student intern	June 2012- Aug. 2012
-Submitted the -Interviewed an	report "intellectual property d visited more than 80 High	management of micro-business" base -tech enterprises in Jingzhou High-tec of Ch. E. and awarded as First prize o	ed on data analysis to the Goverment ch Zone
Extra Currio	culum Activites		
Secretary of the P Secretary of the L Investigation of lo Investigation of in Office administrat	arty branch, Chem. 5, Dept. eague branch, Chem. 61, De ow-rent housing system in H industrial restructuring in Pea tor of the Youth League Com g in Zhongcheng High Schoo	pt. of Ch.E., Sep ong Kong, Jul rl River Delta, Jul nmittee, Dept. of Ch.E., Ma	l. 2008- Aug. 2008 ay. 2007- May. 2008
Chinese Scholarship	Council (CSC) Scholarship (2	2013) First-class Scholarship of Social	Practices, Tsinghua Univ.( 2012, 20/800 )
First-class Scholarsh	nip of Dow Chemicals (2011, 2	2/98) Outstanding Thesis of Dept. of (	Ch.E., Tsinghua Univ. ( 2010, <b>5/18</b> )
Outstanding Gradua	tes of Tsinghua Univ. (2010, 5	5%) First-Class Scholarship of Petro	0 China (2008, <b>5/18</b> )
First-Class Scholars	hip of Mitsui Chemicals( 2007,	2/118) First Prize in the National High S	School Mathematics Competition( 2006)
Publication	S		
Journal of Che	emical Engineering, 2013, 21(1)	2): 1319-1331 (Featured on cover)	ailed radical kinetic mechanism. <i>Chinese</i> visted slices. <i>Computer Aided Chemical</i>

- Engineering, 2012, 31: 905-909 3. Zhang, N., Seider, WD., Chen, BZ. Nonlinear dynamics and hopf bifurcation in controlled/"living" radical polymerization of styrene. (217ap) In: AIChE Annual meeting, 2013, San Francisco
- 4. Wang, HZ., Zhang, N., Qiu, T., Zhao, JS., He, XR., Chen, BZ. Optimization of a continuous fermentation process producing 1,3propane diol with Hopf singularity and unstable operating points as constraints. Chemical Engineering Science, (just accepted)
- 5. Wang, HZ., Zhang, N., Qiu, T., Zhao, JS., He, XR., Chen, BZ. A process design framework for considering the stability of steady state operating points and Hopf singularity points in chemical processes. Chemical Engineering Science, 2013, 99(9): 252-264
- 6. Wang, HZ., Zhang, N., Qiu, T., Zhao, JS., He, XR., Chen, BZ. Analysis of Hopf Points for a Zymomonas mobilis Continuous Fermentation Process Producing Ethanol. Industrial & Engineering Chemistry Research, 2013, 52: 1645-1655
- 7. Yuan, ZH., Zhang, N., Qiu, T., Chen, BZ., Zhao, JS. Systematic Controllability Analysis for Chemical Processes. AIChE Journal. 2013, 58: 3096-3109