Nan ZHANG



| \ \$ | Gender: Female | Date of birth: Jan, 1 | .989 |
|--|---|---|---|
| | Cell: +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 | | |
| Process simula Local stabiliza Eliminate unfa CFD simulation of Using Compute CFD Simulation Effectiveness of Pricing strategy a Provide strategy Based on indu University of Penni-Modelling of Coperating Strategy | 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 Research associate 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, 5/18) |
| Outstanding Gradua | tes of Tsinghua Univ. (2010, 5 | 5%) First-Class Scholarship of Petro | 0 China (2008, 5/18) |
| 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