

Li Gensheng

Ph.D., Professor, Member of Chinese Academy of Engineering

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Education

Ph.D. University of Petroleum (China), Oil and Gas Well Engineering, 1998

M.S. East China Petroleum Institute (China), 1986

B.S. East China Petroleum Institute (China), 1983

Research Areas and Interests

High Pressure Water Jet Theory & Application

Well Drilling and Completion Engineering

Fluid Flow Mechanism in Oil & Gas Wells

Teaching

Well Drilling Engineering; Well Completion Engineering; Advanced Oil & gas drilling and production engineering; Water Jet Theory and Technology

Professional Experiences

- September, 2017-present, China University of Petroleum, Beijing, Vice President
- November, 2003-present, China University of Petroleum, Beijing, professor
- June, 1994-October, 2003, China University of Petroleum, East China, professor
- December, 1991-June, 1994, China University of Petroleum, East China, associate professor
- February, 1991–August, 1991, Tohoku University (Japan), visiting scholar
- June, 1986-February, 1991, East China Petroleum Institute, lecturer

Other Appointments

- Director of State Key Laboratory of Petroleum Resources and Prospecting
- Director of Subcommittee on Spray Nozzle of National Technical Committee on Jet Equipment of Standardization Administration of China (SAC/TC493/SC1)
- Vice director of National Technical Committee on Jet Equipment of Standardization Administration of China
- Vice director of Rock-cracking Engineering Subcommittee, China Society for Rock Mechanic and Engineering
- Vice Director of Jet technology Special Committee Chinese Mechanical Engineering Society
- International advisor of 11th to 15th Water Jet Academic Conference of America

- Member of society of petroleum engineers (SPE)
- Member of Water Jet Technology Association (WJTA)
- Editorial board member of Journal "Proceeding", Petroleum Science, Fluid machinery, et al

Honors and Awards

- National Technology Invention Award, 2017
- National Technology Invention Award, 2012
- National Award for Science and Technology Progress, 2007
- Science and Technology Progress Award of MOE, 2011
- Technology Invention Award of CPCIF, 2014
- Science and Technology Progress Award of CPCIF, 2010
- Beijing Science and Technology Award, 2011
- Science and Technology Progress Award of Shandong province, 2005
- The National Science Fund for Distinguished Young Scholars, 2001
- Energy Award of Sun Yueqi Foundation for Science and Education, 2011
- Science and Technology Award for Chinese youth, 1998
- Special Government Allowances of The State Council, 1998
- Honor of Beijing Outstanding Teachers, 2009

Selected Publications

5 monographs and more than 200 research papers have been published, including more than 100 papers as the first author or corresponding author.

Monographs

1. Zhongwei Huang, Gensheng Li, Shouceng Tian, Xianzhi Song, Mao Sheng, Subhash Shah. Abrasive Water Jet Perforation and Multi-Stage Fracturing. Elsevier, Gulf Professional Publishing, United States 2018.
2. Gensheng Li, Zhongwei Huang, Shouceng Tian, et al. Theory and Application of Hydrajert Fracturing. Beijing Science Press, 2011 (in Chinese)
3. Gensheng Li, Yinghu Zhai. Well Completion Engineering. China University of Petroleum Press, 2009 (in Chinese)
4. Gensheng Li, Zhonghou Shen. Theory and Application of Self-resonating Cavitating Water Jet. Dong Ying: China University of Petroleum Press, 2006 (in Chinese)
5. Zhonghou Shen, Gensheng Li, Ruihe Wang, et al. Water Jet Technology in Petroleum Engineering. Dong Ying: China University of Petroleum Press, 1997.

Journal Papers

1. Kewen Peng, Shouceng Tian, Gensheng Li, Habib, Alehossein. Mapping Cavitation Impact Field in a Submerged Cavitating Jet. Wear. 2018,396-397:22-23.
2. Xianzhi Song, Yu Shi, Gensheng Li, Ruiyue Yang, Zhengming Xu, Rui Zheng, Gaosheng Wang, Zehao Lyu. Heat Extraction Performance Simulation for Various Configurations of a Downhole Heat Exchanger Geothermal System. Energy. 2017,141:1489-1503.

3. Sheng, Mao, Li, Gensheng, Sutula, Danas, Tian, Shouceng, Bordas, Stephane P.A. XFEM Modeling of Multistage Hydraulic Fracturing in Anisotropic Shale Formations. *Journal of Petroleum Science and Engineering*. 2017, (In press).
4. Ruiyue Yang, Zhongwei Huang, Gensheng Li, et al. 2017. A Semi-Analytical Approach to Model Two-phase Flowback of Shale Gas Wells with Complex Fracture Geometries. *SPE Journal*. 22(06):1808-1833. SPE-181766-PA.
5. Wenxi Ren, Gensheng Li, Shouceng Tian, et al. An analytical model for real gas flow in shale nanopores with non-circular cross-section. *AIChE Journal*. 2016, 62(8): 2893-2901.
6. Lidong Geng, Gensheng Li, P. Zitha, et al. A Diffusion-Viscous Flow Model for Simulating Shale Gas Transport in Nano-Pores. *Fuel*. 2016, 181, 887-894.
7. Jingbin Li, Gensheng Li, Zhongwei Huang, et al. The Self-Propelled Force Model of a Multi-Orifice Nozzle for Radial Jet Drilling. *Journal of Natural Gas Science and Engineering*. 2015,24, 441-448.
8. Gensheng Li, Haizhu Wang, Zhouhou Shen, et al. Application Investigations and Prospects of Supercritical Carbon Dioxide Jet in Petroleum Engineering. *Journal of China University of Petroleum*, 2013, 37(5): 76-80. (in Chinese)
9. Haizhu Wang, Gensheng Li, Zhouhou Shen. A Feasibility Analysis on Shale Gas Exploitation with Supercritical Carbon Dioxide. *Energy Sources A*, 2012, 34(15): 1426-1435.
10. Jiasheng Fu, Gensheng Li, Huaizhong Shi, et al. A Novel tool to Improve the Rate of Penetration -Hydraulic-Pulsed Cavitating-Jet Generator. *SPE Drilling & Completion*. 2012, 27(3): 354-361. SPE-162726-PA.