

Professor Yongfei Yang

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Education and Professional Career

2000-2004 Bachelor's degree studies in Petroleum Engineering at China University of Petroleum (East China), Qingdao, China
2004-2007 Master's degree studies in Enhanced Oil Recovery and Oilfield Chemistry at China University of Petroleum (East China), Qingdao, China
2007-2010 Doctor's degree studies in Reservoir Engineering at China University of Petroleum (East China), Qingdao, China
2008-2009 Academic visitor at Heriot-Watt University, Scotland, UK
2010-2015 Lecturer, Reservoir Engineering, China University of Petroleum (East China), Qingdao, China
2015-2020 Associate Professor, Reservoir Engineering, China University of Petroleum (East China), Qingdao, China
Since 2020 Professor, Reservoir Engineering, China University of Petroleum (East China), Qingdao, China
Since 2025 Managing Director, International Joint Laboratory on Petroleum Energy, China University of Petroleum (East China), Qingdao, China

Commitment, Appointments and Scientific Volunteer Jobs

2020-present Member of InterPore Foundation
2017-present Secretary-general of China InterPore Chapter
2024-present Editorial Board, InterPore Journal
2024 The Chair of InterPore 2024 Qingdao Local Committee
2021-2022 The Chair of Thematic Workshops Committee of InterPore Academy
2018-2025 Associate Editor, *Gas Science and Engineering*
2025-present Associate editor, *Petroleum Science*
2019-present Editorial Board, *Geoenergy Science and Engineering*
2024-2027 Editorial Board, *Petroleum Exploration and Development*
2021-2025 Vice-dean in China University of Petroleum (East China)
2022-2023 Head of young editorial board member of Journal of China University of Petroleum

Professional Awards, Offers and Recognitions

Scientific:

2021 InterPore Rosette Award
2023-2026 Annual list of the top 2% of scientists worldwide in terms of scientific influence
2021 Top 10 Young Scientists, China Association for Science and Technology (below 40 years old)
2020 Changjiang Young Scholars Programme of China
2021 The first prize of Science and Technology Progress award of the China Petroleum and Chemical Automation Application Association
2020 The second prize of Science and Technology Progress award of the Federation of China's Petroleum and Chemical Industry
2014 The second prize of Qingdao Science and Technology Progress award
2014 The second prize of Science and Technology Progress award of the Federation of China's Petroleum and Chemical Industry
2015 The second prize of Dongying Science and Technology Progress award

Teaching:

2022	The first prize of High Educational Teaching Achievements award of Shandong Province, Ranking 4/10
2020	The second prize of University's Outstanding Teaching Achievements award, Ranking 1/9
2019	The grand prize of University's Teaching Achievements award, 11/24
2017	Excellent teachers of China University of Petroleum
2017	The first prize of University's Outstanding Teaching Achievements award, Ranking 13/15
2017	The second prize of University's Outstanding Teaching Achievements award, Ranking 4/10
2017	The second prize of University's Outstanding Teaching Achievements award, Ranking 6/8
2014	The third prize of High Educational Teaching Achievements award of Shandong Province, Ranking 3/9

Most important Publications (maximum 10)

(Peer reviewed journal articles / books / patents)

Google Scholar Citations:9859, H index: 53

- [1] **Yang Yongfei***, Wang Jinlei, Wang Jianzhong, et al. Pore-scale modeling of coupled CO₂ flow and dissolution in 3D porous media for geological carbon storage[J]. *Water Resources Research*, 59(10): e2023WR035402, 2023.
- [2] **Yang Yongfei***, Li Yingwen, Yao Jun, et al. Dynamic pore-scale dissolution by CO₂-saturated brine in carbonates: Impact of homogeneous versus fractured versus vuggy pore structure[J]. *Water Resources Research*, 56(4): e2019WR026112, 2020.
- [3] **Yang Yongfei***, Tao Liu, Yang Haiyuan, et al. Stress sensitivity of fractured and vuggy carbonate: an X-ray computed tomography analysis[J]. *Journal of Geophysical Research-Solid Earth*, 125(3): e2019JB018759, 2020.
- [4] Liu Mingxin, **Yang Yongfei***, Liu Fugui, et al. Mechanical Behavior of Deep Rock Compaction Layers and Its Effect on Formation Stability[J]. *Rock Mechanics and Rock Engineering*, 2026, 59(3): 2911-2928.
- [5] Li Yingwen, **Yang Yongfei***, Dong Mingzhe, et al. Pore-Scale Characterization of CO₂ Trapping and Oil Displacement in Three-Phase Flow in a Heterogeneous Layered Sandstone[J]. *SPE Journal*, 29(02): 1147-1160, 2024.
- [6] Li Yingwen, **Yang Yongfei***, Dong Mingzhe, et al. Effect of Pore Structure and Capillary Number on Gas-Water Flow Patterns in Carbonate rocks[J]. *SPE Journal*, SPE-209615-PA, 2022.
- [7] **Yang Yongfei***, Liu Jie, Yao Jun, et al. Adsorption behaviors of shale oil in kerogen slit by molecular simulation[J]. *Chemical Engineering Journal*, 387: 124054, 2020.
- [8] **Yang Yongfei***, Wang Ke, Zhang Lei, et al. Pore-scale simulation of shale oil flow based on pore network model[J]. *Fuel*, 251: 683-692, 2019.
- [9] **Yang Yongfei**, Yao Jun*, Wang Chenchun, et al. New pore space characterization method of shale matrix formation by considering organic and inorganic pores[J]. *Journal of Natural Gas Science and Engineering*, 27: 496-503, 2015.
- [10] **Yang Yongfei**, Yao Jun, Li Yingwen, et al. Method and system for determining contact angle of porous media: U.S. Patent 10,969,321[P]. 2021-4-6.