**Fangli Qiao**

Chair Professor of Physical Oceanography

Academician of International Eurasian Academy of Sciences

Editor-in-chief, Ocean Modelling

EPG member of UN Decade of Ocean Science for Sustainable Development

Deputy Director General of FIO, Ministry of Natural Resources, China

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| **Basic Information** |
| First name | Fangli |
| Last name | Qiao |
| Gender | Male |
| Date of birth | 18 August, 1966 |
| Affiliation | First Institute of Oceanography (FIO), Ministry of Natural Resources (MNR), P. R. China |
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| Address | 6 Xian-xia-ling Road, Laoshan District, Qingdao266061, P R China |
| **Expertise** |
| 1. Development of ocean and climate models;2. Turbulence; Ocean mixing and air-sea interaction;3. Ocean dynamics. |
| **Academic Qualifications** |
| Sep.1997-Jun. 2003 | Institute of Oceanography, Chinese Academy of Sciences (IOCAS), China | PhD of Physical Oceanography |
| Sep.1988-Jun.1991 | First Institute of Oceanography, State Oceanic Administration (FIO/SOA), China | Master of Physical Oceanography |
| Sep.1984-Jun. 1988 | Department of Oceanography, Ocean University of China (OUC), China | Bachelor of Physical Oceanography |
| **Working Experiences** |
| Jul. 2019-Now | Deputy Director General, FIO |
| Jan. 2014-Jun. 2019 | Secretary General and Deputy Director General, FIO |
| Oct. 1999-Dec. 2013 | Deputy Director General, FIO |
| Oct. 1997-Now | Professor, FIO |
| Oct. 1995-Sep. 1997 | Associate Professor, FIO |
| Oct. 1993-Sep. 1995 | Assistant Professor, FIO |
| Aug. 1991-Sep. 1993 | Researcher, FIO |
| **Long-term International Experiences** |
| Apr. 2021-Now | Editor-in-chief, Ocean Modelling |
| Apr. 2021-Now | Co-chair, UNESCO-IOC/WESTPAC |
| Jul.2020-Mar. 2021 | Co-editor-in-chief, Dynamics of Atmospheres and Oceans |
| Oct.2018-Dec.2020  | Executive Planning Group member, UN Decade of Ocean Science for Sustainable Development |
| Apr.2017-Mar. 2021  | Vice-chair, UNESCO-IOC/WESTPAC |
| Jun. 2015-Now  | Chair, Scientific committee of China-PICES |
| Nov. 2012-Now  | Governing Council Member, North Pacific Marine Science Organization (PICES) |
| Nov. 2012-Now  | Editorial board member, Journal of Marine Systems |
| Nov. 2012-Now  | Editorial board member, Acta Oceanologica Sinica |
| Aug. 2011  | The excellence in refereeing for outstanding service to the authors and readers of JGR-Ocean |
| Jun. 2011-Now  | Director of UNESCO/IOC Regional Training & Research Center on Ocean Dynamics and Climate |
| May 2010-May 2015  | Director of China-Indonesia center for Ocean & Climate |
| Jun. 2006-Mar. 2021  | Editorial board member, Ocean Modelling |
| May 2005-Oct. 2012  | Science Board Member, North Pacific Marine Science Organization (PICES) |
| Mar. 2001-Nov. 2001  | Visiting Scholar, Princeton University, USA |
| Sep. 1996-Mar. 1997 | Frontier Fellowship, National Institute of Marine Environments, Japan |
| **Academic Services** |
| Dec. 2019-Now | Chair of the Chinese Scientific Committee on Oceanic Research (SCOR-CHINA) |
| May 2018-Apr. 2023 | Vice Chair, national scientific committee of “Global change and mitigation” of Ministry of Science and Technology of China |
| Apr. 2013-Dec. 2017 | Member of the Higher Education Teaching Guidance Committee, Ministry of Education, China |
| Dec. 2012-Now | Member of the Expert Group for product integration of the National Key Project of Comprehensive and Evaluation Study of the polar environments |
| Dec. 2012-Dec. 2017 | Member of the 2nd Emergency Management Expert Group of the people's government of Qingdao |
| Jun. 2010-Dec. 2014 | Chief scientist, the National Key Basic Research Program of China (973 Program): The influence of air-sea interaction in the Southern and India Oceans on the East Asia and global climate change |
| Oct. 2009-Nov. 2019 | Vice Chair of the Chinese Scientific Committee on Oceanic Research (SCOR-CHINA) |
| Jan. 2009-Dec. 2013 | Member of the Academic Degree Committee of Shandong Province |
| May 2008-Dec. 2018 | Vice Chair of the Chinese Committee of the International Association for Physical Sciences of the Ocean (IUGG-IAPSO) |
| Nov. 2006-Now | Member of the Scientific Committee of the State Key Laboratory of Ocean Dynamic Environment Satellite |
| Dec. 2006-Dec. 2010 | Member of the Academic Committee of the Shanghai-NOAA Joint Center for Ocean Remote Sensing and Living Marine Resources Management |
| Dec. 2005-Dec. 2010 | Member of the Chinese Committee for Land-ocean Interaction, the coastal zone (CC-LOICS) |
| Nov. 2005-Now | Director of the Air-sea Interaction Committee, Chinese Oceanographic Society |
| Nov. 2005-Now | Deputy Director of the Youth Working Committee, the Chinese Oceanographic Society |
| **Honors and Awards** |
| 1. In 2019, Surface wave-tide-circulation coupled model and its applications, Marine Engineering Science and Technology Award, the first place of the special prize;
 |
| 1. In 2019, The non-braking surface wav-induced vertical mixing theory and its applications, Natural Science Award of Qingdao, the first place of the first prize;
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| 1. In 2018, The innovation scholar of Natural Science Foundation of China, the first place of the group;
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| 1. In 2018, excellent scholar of Mountain Tai, Shandong Province of China, the first place of the list;
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| 1. In 2017, National innovation Award on science and technology of China, the first place of the prize;
 |
| 1. In 2016, A highly effective global surface wave numerical simulation with ultra-high resolution, Final list of Gorden Bell Prize, the first place of the group;
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| 1. In 2015, The development and application of high efficiency EAKF ocean dada assimilation system, the first place of the second prize;
 |
| 1. In April of 2014, Outstanding Scientists Award from UNESCO/IOC/ WESTPAC;
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| 1. In October of 2014, Wooster Award of the North Pacific Marine Science Organization (PICES) ;
 |
| 1. In 2014, The development and applications of new climate model with surface wave, Marine Engineering Science and Technology Award, the first place of the first prize;
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| 1. In 2012, Study of the distribution and formation of the upwelling off China coasts, Marine Engineering Science and Technology Award, the first place of the second prize;
 |
| 1. In 2011, Construction of a new type of wave-tide-circulation coupled model and its operational application, Marine Engineering Science and Technology Award, the first place of the first prize;
 |
| 1. In 2011, Dynamical mechanism of the algea bloom drifting and its early warning, Marine Innovation Achievement Award, the first place of the second prize;
 |
| 1. In 2010, Establishment and application of wave-circulation coupled theory, Marine Innovation Achievement Award, the first place of the first prize;
 |
| 1. In 2007, New century talents national candidate of State Personnel Board;
 |
| 1. In 2006, Ninth China Youth Science and Technology Prize of National Personnel Department, Organization Department and Chinese Association;
 |
| 1. In 2006, Analysis, simulation and dynamics of tides and tidal currents in China seas, Marine Innovation Achievement Award, the third place of second prize;
 |
| 1. In 2005, Construction of marine environment database, Marine Innovation Achievement Award, the first place of the first prize;
 |
| 1. In 2004, Annual Special Government Allowance from State Council of China;
 |
| 1. In 2003, System integration and technology for information products and the demonstration experiment, Marine Innovation Achievement Award, the fourth place of the second prize;
 |
| 1. In 1999, Second Qingdao Youth Science and Technology Award;
 |
| 1. In 1999, Study of the environmental division for Ocean Engineering parameters in the regions of Wenchang and Yingqiong seas in the western South China Sea, Marine Science and Technology Progress Award, the second place of the second prize;
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| 1. In 1998, Study of regional hydrographic and meteorological extreme values in the eastern South China Sea, Science and Technology Progress Award of State Oceanic Administration, the fifth place of the third prize;
 |
| 1. In 1996, Ten Outstanding Young Scientists of the State Oceanic Administration;
 |
| 1. In 1995, Study of the hydrographic and meteorological parameters in the foreign bidding area of the East China Sea, Marine Science and Technology Progress Award, the fifth place of the second prize;
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| 1. In 1995, Study of the hydrographic and meteorological parameters in Pinghu oil and gas field in the East China Sea, Excellent Marine Engineering Survey and Design Award of State Oceanic Administration, the fifth place of the first prize.
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| **Published Papers (Totally more than 380 papers published)** |
| 1. Shu Qi, Qiang Wang, Zhenya Song, Fangli Qiao, 2021. The poleward enhanced Arctic Ocean cooling machine in a warming climate. Nature Communication, 12:2966, https://doi.org/10.1038/s41467-021-23321-7 ***(Corresponding author).***
 |
| 1. Huang Chuanjiang, Fangli Qiao, 2021. Simultaneous observations of turbulent Reynolds stress in the ocean surface boundary layer and wind stress over the sea surface. Journal of Geophysical Research: Oceans, 126, e2020JC016839. <https://doi.org/10.1029/2020JC016839>  ***(Corresponding author).***
 |
| 1. Norden E. Huang, Fangli Qiao, Qian Wang, Hong Qian and Ka-Kit Tung, 2021. A model for the spread of infectious diseases compatible with case data. Proc. R. Soc. A 20210551, https://doi.org/10.1098/rspa.2021.055 (Co-first author).
 |
| 1. Zhao Chang, Gang Wang, Min Zhang, Guansuo Wang, Govert de With, Roman Bezhenarg, Vladimir Maderich, Changshui Xia, Biao Zhao, Kyung Tae Jung, Raúl Peria´˜nez, Mohd Fadzil Akhir, Chalermrat Sangmanee, Fangli Qiao, 2021. Transport and dispersion of tritium from the radioactive water of the Fukushima Daiichi nuclear plant. Marine Pollution Bulletin 169 (2021) 112515, <https://doi.org/10.1016/j.marpolbul>. 2021.112515***(Corresponding author).***
 |
| 1. Raúl Perianez, Fangli e Qiao, Chang Zhaob, Govert de With, Kyung-Tae Jung, Chalermrat Sangmanee, Guansuo Wang, Changshui Xia, Min Zhang, 2021. Opening Fukushima ﬂoodgates: Modelling 137Cs impact in marine biota. Marine Pollution Bulletin 170, 112645, https://doi.org/10.1016/j.marpolbul.2021.112645.
 |
| 1. Wei Meng, Qi Shu, Zhenya Song, Yajuan Song, Xiaodan Yang, Yongqing Guo, Xinfang Li, Fangli Qiao, 2021, Could CMIP6 climate models reproduce the early-2000s global warming slowdown? Science China Earth Sciences, 64, <https://doi.org/10.1007/s11430-020-9740-3> ***(Corresponding author).***
 |
| 1. Shaila Akhter, Fangli Qiao, Kejian Wu, Xunqiang Yin, K M Azam Chowdhury, Nur Uddin Md Khaled Chowdhury, 2021. Seasonal and long-term sea-level variations and their forcing factors in the northern Bay of Bengal: A statistical analysis of temperature, salinity, wind stress curl, and regional climate index data. Dynamics of Atmospheres and Oceans 95, 101239, https://doi.org/10.1016/j.dynatmoce.2021.101239.
 |
| 1. Wang Shizhu, Xun Gong, Fangli Qiao, Evan J Gowan, Jan Streffing,Gerrit Lohmann, 2021. The impact of non-breaking surface waves in upper-ocean temperature simulations of the Last Glacial Maximum. Environmental Research Letters, 16, 034008, <https://doi.org/10.1088/1748-9326/abe14e>.
 |
| 1. Wang Shizhu, Qiang Wang, Qi Shu, Zhenya Song, Gerrit Lohmann, Sergey Danilov and Fangli Qiao, 2021. Nonmonotonic change of the Arctic Ocean freshwater storage capability in a warming climate. Geophysical Research Letters, 48, e2020GL090951. https://doi. org/10.1029/2020GL090951 *(Corresponding author).*
 |
| 1. Qiao Wenli, Lichuan Wu, Jinbao Song, Xue Li, Fangli Qiao, Anna Rutgersson, 2021. Momentum flux balance at the air-sea interface. Journal of Geophysical Research: Oceans, 126, e2020JC016563. <https://doi.org/10.1029/2020JC016563>.
 |
| 1. Li Yan, Fangli Qiao, Hongyu Ma, Qiuli Shao, Zhixin Zhang, Guansuo Wang, 2021. The mechanism of the banded structure of drifting macroalgae in the Yellow Sea. Acta Oceanologica Sinica, 40(7), 31-41, <https://doi.org/10.1007/s13131-021-1771-9> ***(Corresponding author).***
 |
| 1. G. de With, R. Bezhenar, V. Maderich, Y. Yevdin, M. Iosjpe, K.T. Jung, F. Qiao, R. Perianez, 2021. Development of a dynamic food chain model for assessment of the radiological impact from radioactive releases to the aquatic environment. Journal of Enviromental Radioactivity, 233, 106615, https://doi.org/10.1016/j.jenvrad.2021.106615.
 |
| 1. Claudia Tebaldi, Kevin Debeire, Veronika Eyring, Erich Fischer, John Fyfe, Pierre Friedlingstein, Reto Knutti, Jason Lowe, Brian O’Neill11, Benjamin Sanderson, Detlef van Vuuren, Keywan Riahi, Malte Meinshausen, Zebedee Nicholls, Katarzyna B. Tokarska, George Hurtt, Elmar Kriegler, Jean-Francois Lamarque, Gerald Meehl, Richard Moss, Susanne E. Bauer, Olivier Boucher, Victor Brovkin, Young-Hwa Byun, Martin Dix, Silvio Gualdi, Huan Guo, Jasmin G. John, Slava Kharin, YoungHo Kim, Tsuyoshi Koshiro, Libin Ma, Dirk Olivié, Swapna Panickal, Fangli Qiao, Xinyao Rong, Nan Rosenbloom, Martin Schupfner, Roland Séférian, Alistair Sellar, Tido Semmler, Xiaoying Shi, Zhenya Song, Christian Steger, Ronald Stouffer, Neil Swart, Kaoru Tachiiri, Qi Tang, Hiroaki Tatebe, Aurore Voldoire, Evgeny Volodin, Klaus Wyser, Xiaoge Xin, Shuting Yang, Yongqiang Yu, and Tilo Ziehn, 2021. Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. Earth Syst. Dynam., 12, 253-293, https://doi.org/10.5194/esd-12-253-2021.
 |
| 1. Sun Chao, Li Liu, Ruizhe Li, Xinzhu Yu, Hao Yu, Biao Zhao, Guansuo Wang, Juanjuan Liu, Fangli Qiao, and Bin Wang, 2021. Developing a common, flexible and efficient framework for weakly coupled ensemble data assimilation based on C-Coupler2.0. Geosci. Model Dev., 14, 2635-2657, <https://doi.org/10.5194/gmd-14-2635-2021>.
 |
| 1. Li Shuyao, Cui Hongyan, Xu Junli, Gong Xiang, Qiao Fangli, Yang Yanzhao, Wang Ping, Han Yunqun, Shan Feng, 2021. Factors contributing to rapid decline of Arctic sea ice in autumn. Advances in Polar Science, 2021(2): 96-104.
 |
| 1. Qiao Fangli, Chuanjiang Huang, Tiegang Li, Min Zhang, Wenzheng Jiang, Yanxiong Liu, 2020, Mid-Holocene seawater preserved in the deepest oceanic blue hole. Science Bulletin, 65: 1975-1978, <https://doi.org/10.1016/j.scib.2020.08>. 006.
 |
| 1. Huang Chuanjiang, Fangli Qiao, Hongyu Ma, 2020. Noise reduction of acoustic Doppler velocimeter data based on Kalman filtering and autoregressive moving average models. Acta Oceanologica Sinica, 39(12): 106-113, doi: 10.1007/s13131-020-1641-x ***(Corresponding author).***
 |
| 1. Chen Sheng, Anna Rutgersson, Xunqiang Yin, Ying Xu, Fangli Qiao, 2020, On the first observed wave-induced stress over the global ocean. *J. Geophys. Res. Oceans*, 125, e2020JC016623. https://doi.org/10.1029/2020JC016623 ***(Corresponding author).***
 |
| 1. Sun Yujuan, William Perrie, Fangli Qiao, Gang Wang, 2020, Intercomparisons of high-resolution global ocean analyses: Evaluation of a new synthesis in tropical oceans. *J. Geophys. Res. Oceans*, 125, e2020JC016118. <https://doi.org/10.1029/2020JC016118>
 |
| 1. Bao Ying, Zhenya Song, Fangli Qiao, 2020, FIO-ESM Version 2.0: Model description and evaluation. *J. Geophys. Res. Oceans*, 125, e2019JC016036. https://doi.org/10.1029/2019JC016036 ***(Corresponding author).***
 |
| 1. Chen Sheng, Fangli Qiao, Jun A. Zhang, Hongyu Ma, Yuhuan Xue, Siyu Chen, 2020, Swell modulation on wind stress in the constant flux layer. *Geophysical Research Letters*, 47, e2020GL089883. https://doi.org/10.1029/2020GL089883 *(Corresponding author)*.
 |
| 1. Chen Sheng, Fangli Qiao, Xue Yuhuan, Chen Siyu, Hongyu Ma, 2020, Directional characteristics of wind stress vector under swell-dominated conditions. *J. Geophys. Res. Oceans*, 125(7), e2020JC016352, <https://doi.org/10.1029/2020JC> 016352 ***(Corresponding author)****.*
 |
| 1. Ma Hongyu, Alexander V. Babanin, Fangli Qiao, 2020, Field observations of sea spray under Tropical Cyclone Olwyn. Climate Dynamics, 70, 1439-1448, https://doi.org/10.1007/s10236-020-01408-x
 |
| 1. Shu Qi, Qiang Wang, Zhenya Song, Fangli Qiao, Jiechen Zhao, Min Chu, and Xinfang Li, 2020, Assessment of sea ice extent in CMIP6 with comparison to observations and CMIP5. Geopgysiacal Research Letter, doi: 10.1029/2020GL087965 ***(Corresponding author)***.
 |
| 1. Song Zhenya, Ying Bao, Danqi Zhang, Qi Shu, Yajuan Song, Fangli Qiao, 2020, Centuries of monthly and 3-hourly global ocean wave data for past, present, and future climate research. Scientific Data, 7:226, https://doi.org/10.1038/s41597 -020-0566-8 ***(Corresponding author)***.
 |
| 1. Polnikov G Vladislav, Fangli Qiao, Hongyu Ma, 2020, Surface drift currents induced by waves and wind in a large tank. *J Phys. Oceangr*, 50: 3063-3073, doi: 10.1175/JPO-D-20-0009.1
 |
| 1. Polnikov G Vladislav, Fangli Qiao, Hongyu Ma, and Shumin Jiang, 2020, New effects in the evolution of the wave spectrum in a tank. ***Journal of Experimental and Theoretical Physics Letters***, 111(8): 434-441, doi: 10.1134/S002136402008007X
 |
| 1. Song Yajuan, Yiding Zhao, Xunqiang Yin, Bao Ying, Fangli Qiao, 2020, Evaluation of FIO-ESM v1.0 Seasonal Prediction Skills Over the North Pacific. *Frontiers in Marine Science* 7(504):1-10, doi: 10.3389/fmars.2020.00504 ***(Corresponding author)***.
 |
| 1. Huang E Norden, Fangli Qiao, 2020, A data driven time-dependent transmission rate for tracking an epidemic: a case study of 2019-nCoV, ***Science Bulletin,* 65:425-427,** <https://doi.org/10.1016/j.scib.2020.02.005> ***(Corresponding author)****.*
 |
| 1. Ma Hongyu, Dejun Dai, Jingsong Guo, Fangli Qiao, 2020, Observational evidence of surface wave-generated strong ocean turbulence. ***J. Geophys. Res. Oceans***, 125, e2019JC01565, doi: 10.1029/2019JC015657 ***(Corresponding author)****.*
 |
| 1. Huang Chuanjiang, Fangli Qiao, Dejun Dai, 2020, Can Langmuir Circulations Solve the Problem of Insufficient Upper-Ocean Mixing? Journal of Ocean University of China, 19(4): 761-771, doi: 10.1007/s11802-020-4325-4
 |
| 1. Wang Gang, Fangli Qiao, 2020, Mirror patterns of physical variables in the ocean. ***Cliamte Dynamics***, 54: 3109-3120, doi:10.1007/s00382-020-05161-1 ***(Corresponding author)****.*
 |
| 1. Lu Jing, Guoqi Han, Changshui Xia, Zhenhua Chen, Cheng Tong, Zhenya Song, Yong Teng, Fangli Qiao, 2020, [Sediment dynamics near a sandy spit with wave-induced coastal currents](https://www.evise.com/evise/faces/pages/homepage/homepage.jspx?_adf.ctrl-state=hejsjvqup_4). *Continental Shelf Research*, 193, <https://doi.org/10.1016/j.csr.2019.104033> *(Corresponding author).*
 |
| 1. Zhao Jiechen, Qi Shu, Chunhua Li, Xingren Wu, Zhenya Song, Fangli Qiao, 2020, The role of bias correction on subseasonal prediction of Arctic sea ice during summer 2018. Acta Oceanologica Sinica, 39(9): 50-59, doi: 10.1007/s13131-020-1578-0 *(Corresponding author).*
 |
| 1. Zhou Tianjun, Ziming Chen, Liwei Zou, Xiaolong Chen, Yongqiang Yu, Bin Wang, Qing Bao, Ying Bao, Jian Cao, Bian He, Shuai Hu, Lijuan Li, Jian Li, Yanluan Lin, Libin Ma, Fangli Qiao, Xinyao Rong, Zhenya Song, Yanli Tang, Bo Wu, Tongwen Wu, Xiaoge Xin, He Zhang, Minghua Zhang, 2020, Development of Earth-Climate System Models in China and the CMIP6 Historical Simulations/Projections from Four Chinese Models. *Journal of Meteorological Reserach*, 34(1): 1-19, doi: 10.1007/s13351-020-9164-0.
 |
| 1. Che Din Mohd Safuan, Nur Hidayah Roseli, Zainudin Bachok, Mohd Fadzil Mohd Akhir, Changshui Xia, Fangli Qiao, 2020, First record of tropical storm (Pabuk - January 2019) damage on shallow water reef in Pulau Bidong, south of South China Sea. *Regional Studies in Marine Science*, 35, https://doi.org/10.1016/j.rsma.2020.101216.
 |
| 1. Chen Siyu, Qiao Fangli, Huang Chuanjiang, Song Zhenya, 2020, Contribution of the surface wave-induced vertical mixing to heat content in global upper ocean. Journal of Oceanology and Limnology, 38(2):307-313, doi: 10.1007/s00343-019-9003-2 ***(Corresponding author).***
 |
| 1. Zhang Ronghua, Yongqiang Yu, Zhenya Song, Hongli Ren, Youmin Tang, Fangli Qiao, Tongwen Wu, Chuan Gao, Junya Hu, Feng Tian, Yuchao Zhu, Lin Chen, Hailong Liu, Pengfei Liu, Fanghua Wu, Lin Wang, 2000, A review of progress in coupled ocean-atmosphere model developments for ENSO studies in China. Journal of Oceanology and Limnology, 38(4): 930-961, <https://doi.org/10.1007/s00343-020-0157-8>.
 |
| 1. Huang Chuanjiang, Fangli Qiao, Dejun Dai, 2020, Can Langmuir circulations solve the problem of insufficient upper-ocean mixing. Journal of Ocean University of China: Oceanic and Coastal Sea Research, 19 (4): 761-771, https://doi.org/10.1007/s11802-020-4325-4.
 |
| 1. Qiao Fangli, Guansuo Wang, Liping Yin, Kan Zeng, Yuanling Zhang, Min Zhang, Bin Xiao, Shumin Jiang, Haibo Chen, Ge Chen, 2019, Modeling oil trajectories and the potentially contaminated area from the *Sanchi* oil spill. *Science of the Total Environment*, 685: 856-866, doi:10.1016/j.scitotenv.2019.06.255
 |
| 1. Qiao Fangli, Guansuo Wang, Somkiat Khokiattiwong, Mohd Fadzil Akhir, Wenxi Zhu, Bin Xiao, 2019, China published Ocean Forecasting System for the 21th Century Maritime Silk Road on 10 December, 2018. ***Acta Oceanologica Sinica***, 38(1): 1-3, <https://doi.org/10.1007/s13131-019-1365-y>.
 |
| 1. Qiao Fangli, Si Tuan Vo, Wenxi Zhu, 2019, Introduction of the special issue on the 10th WESTPAC International Scientific Conference. ***Acta Oceanologica Sinica***, 38(1): 4, https://doi.org/10.1007/s13131-019-1364-z.
 |
| 1. Wei Meng, Fangli Qiao, Yongqing Guo, Jia Deng, Zhenya Song, Qi Shu, Xiaodan Yang, 2019, Quantifying the importance of interannual, interdecadal and multidecadal climate natural variabilities in the modulation of global warming rates. *Climate Dynamics*, 53(11), 6715-6727, doi:10.1007/s00382-019-04955-2 *(Corresponding author)*
 |
| 1. [Wang Shihong, Fangli Qiao, Dejun Dai, Xiaohui Zhou, 2019, Anisotropy of the sea surface height wavenumber spectrum from altimeter observations. ***Scientific Report***, 9:15896, https://doi.org/10.1038/s41598-019-52328-w.](file://C:\Users\Qiao\Documents\WeChat%20Files\wxid_wa5v0qr6t64r22\FileStorage\File\2021-10\Wang%20Shihong,%20Fangli%20Qiao,%20Dejun%20Dai,%20Xiaohui%20Zhou,%202019,%20Anisotropy%20of%20the%20sea%20surface%20height%20wavenumber%20spectrum%20from%20altimeter%20observations.%20Scientific%20Report,%209:15896,%20https:\doi.org\10.1038\s41598-019-52328-w.) ***(Corresponding author)***
 |
| 1. Huang Chuanjiang, Fangli Qiao, Siyu Chen, Yuhuan Xue, Jingsong Guo, 2019, Observation and parameterization of broadband sea surface albedo. ***J. Geophys. Res. Oceans***, 124, 4480-4491, https://doi.org/10.1029/2018JC014444 ***(Corresponding author).***
 |
| 1. Chen Sheng, Fangli Qiao, Wenzheng Jiang, Jingsong Guo, Dejun Dai, 2019, Impact of surface waves on wind stress under low to moderate wind conditions. ***J Phys. Oceangr*,** 49(8):2017-2028, doi: 10.1175/JPO-D-18-0266.1 ***(Corresponding author).***
 |
| 1. Deng Jia, ZhaohuaWu, Min Zhang, Norden. E Huang, ShizhuWang, Fangli Qiao, 2019, Data concerning statistical relation between obliquity and Dansgaard-Oeschger events. ***Data in Brief***, https://doi.org/10.1016/j.dib.2019.103727 ***(Corresponding author).***
 |
| 1. Wang Shizhu, Qiang Wang, Qi Shu, Patrick Scholz, Gerrit Lohmann, Fangli Qiao, 2019, Improving the upper‐ocean temperature in an ocean climate model (FESOM 1.4): Shortwave penetration versus mixing induced by nonbreaking surface waves. ***Journal of Advances in Modeling Earth Systems***, 11(2): 545-557, https://doi. org/10.1029/2018MS001494 ***(Corresponding author).***
 |
| 1. Shu Qi, Qiang Wang, Jie Su, Xiang Li, and Fangli Qiao, 2019, Assessment of Atlantic water layer in the Arctic Ocean in CMIP5 climate models. ***Climate Dynamics***, 53:5279-5291, <https://doi.org/10.1007/s00382-019-04870-6>
 |
| 1. Steven J. Bograd, Sukyung Kang, Emanuele Di Lorenzo, Toyomitsu Horii, Oleg N. Katugin, Jackie R. King, Vyacheslav B. Lobanov, Mitsutaku Makino, Guangshui Na, R. Ian Perry, Fangli Qiao, Ryan R. Rykaczewski, Hiroaki Saito, Thomas W. Therriault, Sinjae Yoo, and Hal Batchelder, 2019, Developing a Social-Ecological-Environmental System Framework to Address Climate Change Impacts in the North Pacific. ***Frontiers in Marine Science***, 6, doi:10.3389/fmars.2019.00333
 |
| 1. Alexander V Babanin, Rogers W., Erick de Camargo Ricardo, Doble Martin, Durrant Tom, Filchuk Kirill, Ewans Kevin, Hemer Mark, Janssen Tim, Kelly-Gerreyn Boris, Machutchon Keith, McComb Peter, Qiao Fangli, Schulz Eric, Skvortsov Alex, Thomson Jim,Vichi Marcello,Violante-Carvalho Nelson,Wang David,Waseda Takuji,Williams Greg,Young Ian R., 2019, Waves and Swells in High Wind and Extreme Fetches, Measurements in the Southern Ocean. ***Frontiers in Marine Science***, 6, doi: 10.3389/fmars.2019.00361
 |
| 1. Voermans J. Joey, Henrique Rapizo, Hongyu Ma, Fangli Qiao, Alexander V. Babanin, 2019, Air-sea momentum ﬂuxes during Tropical Cyclone Olwyn. ***J Phys. Oceangr***, 49: 1369-1379, doi: 10.1175/JPO-D-18-0261.1
 |
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