

沈建仁 (計画班 A01)

2019 年度 会議発表

1. 長尾遼、加藤公児、蔣天翼、植野嘉文、横野牧生、陳兆傑、渡辺麻衣、池内昌彦、沈建仁、秋本誠志、宮崎直幸、秋田総理, “Anabaena sp. PCC 7120 由来の光化学系 I 四量体のクライオ電顕構造解析”, 第 10 回日本光合成学会年会, (京都, 日本, 5/25/2019)
2. 加藤祐樹、埴生悟史、中島芳樹、秋田総理、沈建仁、野口巧, “顕微赤外分光法による光化学系 II の単一微結晶における水分解反応の解析”, 第 11 回日本光合成学会年会, (京都, 日本, 5/25/2019)
3. Tian-Yi Jiang, Ryo Nagao, Jian-Ren Shen, “Isolation and characterization of the PSI tetramer, dimer, and monomer from a cyanobacterium Anabaena sp. PCC 7120”, 第 12 回日本光合成学会年会, (京都, 日本, 5/25/2019)
4. Ryo Nagao, Fusamichi Akita, Koji Kato, Takehiro Suzuki, Kentaro Ifuku, Ikuo Uchiyama, Yasuhiro Kashino, Naoshi Dohmae, Seiji Akimoto, Naoyuki Miyazaki, Jian-Ren Shen, “Structural basis of energy harvesting and dissipation in diatom PSII-FCPII complexes revealed by cryo-electron microscopy”, 10th International Conference Photosynthesis and Hydrogen Energy Research for Sustainability, (St. Petersburg, ロシア, 6/25/2019)
5. Yuki Kato, Fusamichi Akita, Yoshiki Nakajima, Satoshi Haniu, Michihiro Suga, Yasufumi Umena, Jian-Ren Shen, Takumi Noguchi, “FTIR study on the water oxidation reaction in photosystem II microcrystals”, 11th International Conference Photosynthesis and Hydrogen Energy Research for Sustainability, (St. Petersburg, ロシア, 6/26/2019)
6. Jian-Ren Shen, “Structural biological studies on photosynthetic systems”, 12th International Conference Photosynthesis and Hydrogen Energy Research for Sustainability, (St. Petersburg, ロシア, 6/24/2019) 基調講演
7. 沈建仁, “領域活動と当グループの研究紹介”, 科研費・新学術領域「革新的光物質変換」合同班会議, (滋賀, 日本, 7/12/2019)
8. 長尾遼, 加藤公児, 蔣天翼, 植野嘉文, 横野牧生, 陳兆傑, 渡辺麻衣, 池内昌彦, 沈建仁, 秋本誠志, 宮崎直幸, 秋田総理, “シアノバクテリア光化学系 I 四量体のクライオ電顕構造解析”, 科研費・新学術領域「革新的光物質変換」合同班会議, (滋賀, 日本, 7/12/2019)
9. Jian-Ren Shen, “Mechanisms of Photosynthetic 'Light-Reactions' Revealed by a Combination of Advanced Structural Biology Approaches”, Gordon Research Conference on Photosynthesis, (Sunday River, Newry, ME, USA, 米国, 7/16/2019) Keynote Lecture

10. Jian-Ren Shen, Fusamichi Akita, Yoshiki Nakajima, Michihiro Suga, "Mechanism of photosynthetic water oxidation", 19th International Conference on Biological Inorganic Chemistry (ICBIC-19), (Interlaken, Switzerland, スイス, 8/14/2019) Keynote Lecture
11. Jian-Ren Shen, "Mechanism of photosynthetic water oxidation", 17th International Congress on Photobiology and the 18th Congress of the European Society for Photobiology (Photobiology-2019), (Barcelona, Spain, スペイン, 8/27/2019) 招待講演
12. Jian-Ren Shen, Fusamichi Akita, Yoshiki Nakajima, Michihiro Suga, "The mechanism of photosynthetic water-splitting revealed by femtosecond X-ray free electron lasers", 18th International Congress on Photobiology and the 18th Congress of the European Society for Photobiology (Photobiology-2019), (Barcelona, Spain, スペイン, 8/28/2019) 招待講演
13. Jian-Ren Shen, Fusamichi Akita, Yoshiki Nakajima, Michihiro Suga, "Mechanism of photosynthetic water oxidation", 9th Asia and Oceania Conference on Photobiology (AOCP2019), (Qingdao, China, 中国, 9/21/2019) 基調講演
14. Ryo Nagao, Fusamichi Akita, Koji Kato, Takehiro Suzuki, Kentaro Ifuku, Ikuo Uchiyama, Yasuhiro Kashino, Naoshi Dohmae, Seiji Akimoto, Naoyuki Miyazaki, Jian-Ren Shen, "Structural basis of energy harvesting and dissipation in diatom PSII-FCPII", 10th Asia and Oceania Conference on Photobiology (AOCP2019), (Qingdao, China, 中国, 9/22/2019)
15. Caizhe Xu, Xiong Pi, Yawen Huang, Wenda Wang, Guoqiang Huang, Tingyun Kuang, Sen-Fang Sui, Jian-Ren Shen, "Structural basis for energy transfer in diatom PSI-FCPI supercomplex", 10th Asia and Oceania Conference on Photobiology (AOCP2019), (Qingdao, China, 中国, 9/22/2019)
16. Qiuqing Yan, Liang Zhao, Wenda Wang, Guangye Han, Yikun He, Tingyun Kuang, Sen-fang Sui, Jian-Ren Shen, "Structural and functional studies of PSI-LHCI Supercomplex from *Physcomitrella patens*", 10th Asia and Oceania Conference on Photobiology (AOCP2019), (Qingdao, China, 中国, 9/22/2019)
17. Jian-Ren Shen, "Mechanism of light-induced water-splitting studied by synchrotron X-rays and XFEL lasers", The 13th International Conference on Biology and Synchrotron Radiation (BSR13), (Shanghai, China, 中国, 9/23/2019) 基調講演
18. Jian-Ren Shen, "Mechanisms of light-induced water-oxidation and energy harvesting, transfer in natural photosynthesis", 3rd International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/20/2019) 基調講演

19. Michihiro Suga, Jian-Ren Shen, "Intermediate Si-State Structures of Photosystem II Reveal the Molecular Mechanism for Water Oxidation in Nature", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019) Keynote Lecture
20. Tian-Yi Jiang, Ryo Nagao, Jian-Ren Shen, "Biochemical properties of photosystem I monomer, dimer, and tetramer from a cyanobacterium *Anabaena* sp. PCC 7120", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019)
21. Naoki Tone, Ugai Natusmi, Yoshiki Nakajima, Michihiro Suga, Fusamichi Akita, Yasufumi Umena, Akiko Nakagawa, Miwa Sugiura, Jian-Ren Shen, "X-ray crystallographic analysis of photosystem II from a *PsbA2*-only strain and its complex with bromoxynil", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019)
22. Taiki Motomura, Lidia Zuccarello, Yasufumi Umena, Alain Boussac, Jian-Ren Shen, "Structural analysis of a minor ferredoxin Fd2 and its comparison with Fd1 from *Thermosynechococcus elongatus*", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/24/2019)
23. Yoshiki Nakajima, Fusamichi Akita, Jian-Ren Shen, "Effects of cryoprotectant reagents on the efficiency of S-state transition of oxygen-evolving photosystem II", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019)
24. Ryo Nagao, Fusamichi Akita, Koji Kato, Takehiro Suzuki, Kentaro Ifuku, Ikuo Uchiyama, Yasuhiro Kashino, Naoshi Dohmae, Seiji Akimoto, Naoyuki Miyazaki, Jian-Ren Shen, "Cryo-EM structure of the diatom PSII-FCPII: Insights into the evolutionary development of light-harvesting complexes", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019)
25. Hongjie Li, Michihiro Suga, Yoshiki Nakajima, Minoru Kubo, Michihiro Sugahara, Shinichiro Yonerakura, Fusamichi Akita, So Iwata, Jian-Ren Shen, "Determination of excitation conditions for time-resolved serial femtosecond crystallography of PSII microcrystals and structural analysis of S2-state at room temperature", 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/22/2019)
26. Seiji Akimoto, Yoshifumi Ueno, Makio Yokono, Jian-Ren Shen, Ryo Nagao, "Adaptation of energy-transfer processes in diatoms to environmental light conditions",

3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 11/24/2019)

27. Koji Kato, Ryo Nagao, Tian-Yi Jiang, Siu Kit Chan, Jian-Ren Shen, Naoyuki Miyazaki, Fusamichi Akita, “Volta Phase-Contrast Cryo-EM Structure of Anabaena PSI Tetramer”, 3th International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2020), (広島, 日本, 11/25/2019)
28. 沈 建仁, “光合成における光誘導水分解反応の分子機構”, 東北大学 第19回多元研究発表会, (仙台, 日本, 12/12/2019) 特別講演