

古在豊樹 千葉大学名誉教授業績リスト

1. English（英語文献）
- 1.1. Books (joined as editor and/or a book chapter author) 編著書（2022.5現在）

Single-author, Multi-author, Author and Editor

| 著者名<br>Author(s)                                        | タイトル<br>Book title                                                                                               | DOI                       | URL                                                                                                                                                                                                                       | 出版社<br>Publisher                                                              | ISBN                         | 出版年<br>Year | 総ページ数<br>Pages |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------|-------------|----------------|
| Kozai, T., Niu, G. and Masabni, G.                      | Plant Factory : Basics, Applications and Advances                                                                | 10.1016/C2020-0-01628-2   | <a href="https://www.elsevier.com/books/plant-factory-basics-applications-and-advances/kozai/978-0-323-85152-7">https://www.elsevier.com/books/plant-factory-basics-applications-and-advances/kozai/978-0-323-85152-7</a> | Elsevier                                                                      | 9780323851527/e9780323859226 | 2021        | 462            |
| Kozai, T., Niu, G. and Takagaki, M.                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production         | 10.1016/C2018-0-00969-X   | <a href="https://www.elsevier.com/books/plant-factory/kozai/978-0-12-816691-8">https://www.elsevier.com/books/plant-factory/kozai/978-0-12-816691-8</a>                                                                   | Elsevier                                                                      | 9780128166918/e9780128166925 | 2020        | 516            |
| Kozai, T.                                               | Smart Plant Factory                                                                                              | 10.1007/978-981-13-1065-2 | <a href="https://link.springer.com/book/10.1007/978-981-13-1065-2#toc">https://link.springer.com/book/10.1007/978-981-13-1065-2#toc</a>                                                                                   | Springer                                                                      | 9789811310645/e9789811310652 | 2018        | 465            |
| Kozai, T., Fujiwara, K. and Runkle, E.S.                | LED Lighting for Urban Agriculture                                                                               | 10.1007/978-981-10-1848-0 | <a href="https://link.springer.com/book/10.1007/978-981-10-1848-0">https://link.springer.com/book/10.1007/978-981-10-1848-0</a>                                                                                           | Springer                                                                      | 9789811018466/e9789811018480 | 2016        | 464            |
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| Kozai, T., Afreen, T. and Zobayed, S.M.A                | Photoautotrophic (sugar-free medium) micropropagation as a new micropropagation and transplant production system | 10.1007/1-4020-3126-2     | <a href="https://link.springer.com/book/10.1007/1-4020-3126-2#about">https://link.springer.com/book/10.1007/1-4020-3126-2#about</a>                                                                                       | Springer                                                                      | 9781402031250/e9781402031267 | 2005        | 316            |
| Kozai, T.                                               | Acta Horticulturae 440 (ISHS)                                                                                    |                           | <a href="https://www.actahort.org/books/440/">https://www.actahort.org/books/440/</a>                                                                                                                                     | ISHS                                                                          | 9789066058880                | 1996        | 674            |
| Aitken-Christie, J., Kozai, T. and Smith, M.A.L.        | Automation and Environmental Control in Plant Tissue Culture                                                     | 10.1007/978-94-015-8461-6 | <a href="https://www.springer.com/jp/book/9780792328414">https://www.springer.com/jp/book/9780792328414</a>                                                                                                               | Kluwer Academic Publishers, Dordrecht, The Netherlands                        | 9789048144051/e9789401584616 | 1995        | 574            |
| Kozai, T., Zimmerman, R.H., Kitaya, Y. and Fujiwara, K. | Acta Horticulturae 393 (ISHS)                                                                                    |                           | <a href="https://www.actahort.org/books/393/">https://www.actahort.org/books/393/</a>                                                                                                                                     | ISHS                                                                          | 9789066054769                | 1995        | 230            |
| Kurata, K. and Kozai, T.                                | Transplant production systems                                                                                    | 10.1007/978-94-011-2785-1 | <a href="https://link.springer.com/book/10.1007/978-94-011-2785-1">https://link.springer.com/book/10.1007/978-94-011-2785-1</a>                                                                                           | Springer                                                                      | 9780792317975/e9789401127851 | 1992        | 335            |
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| Kozai, T., Goudriaan, J. and Kimura, M.                 | Light Transmission and Photosynthesis in Greenhouses                                                             |                           | <a href="https://edepot.wur.nl/167487">https://edepot.wur.nl/167487</a>                                                                                                                                                   | Centre for Agricultural Publishing and Documentation (Pudoc), The Netherlands | 9789022006467                | 1978        | 99             |

Single- or Multi-Author of Book Chapter(s)

| 著者名<br>Author(s)                                                                                   | 章タイトル<br>Chapter title                                                                               | DOI                                | URL                                                                                                                                                                                                             | 書籍タイトル<br>Book Title                                                                                     | 出版社<br>Publisher | ISBN                         | 出版年<br>Year | ページ<br>pages | 総ページ数<br>Total Pages |
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| Kozai, T., Niu, G. and Masabni, G.                                                                 | Introduction: Why plant factories with artificial lighting (PFALs) are necessary                     | 10.1016/B978-0-323-85152-7.00015-X | <a href="https://www.sciencedirect.com/science/article/pii/B978032385152700015X">https://www.sciencedirect.com/science/article/pii/B978032385152700015X</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 3-10         | 449                  |
| Kozai, T.                                                                                          | Terms related to PFALs                                                                               | 10.1016/B978-0-323-85152-7.00007-0 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000070">https://www.sciencedirect.com/science/article/pii/B9780323851527000070</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 11-23        | 449                  |
| Kozai, T.                                                                                          | Role and characteristics of PFALs                                                                    | 10.1016/B978-0-323-85152-7.00014-8 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000148">https://www.sciencedirect.com/science/article/pii/B9780323851527000148</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 25-54        | 449                  |
| Kozai, T.                                                                                          | Contribution of PFALs to the Sustainable Development Goals (SDGs) and beyond                         | 10.1016/B978-0-323-85152-7.00016-1 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000161">https://www.sciencedirect.com/science/article/pii/B9780323851527000161</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 55-78        | 449                  |
| Kozai, T.                                                                                          | Balances and use efficiencies of CO2, water and energy                                               | 10.1016/B978-0-323-85152-7.00003-3 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000033">https://www.sciencedirect.com/science/article/pii/B9780323851527000033</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 129-151      | 449                  |
| Kozai, T., Uraisami, K., Kai, K. and Hayashi, E.                                                   | Productivity: Definition and application                                                             | 10.1016/B978-0-323-85152-7.00009-4 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000094">https://www.sciencedirect.com/science/article/pii/B9780323851527000094</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 197-216      | 449                  |
| Kozai, T., Amagai, Y., Lu, N., Hayashi, E., Ibaraki, Y., Takagaki, M., Shinohara, Y. and Maruo, T. | Towards commercial production of head vegetables in plant factories with artificial lighting (PFALs) | 10.1016/B978-0-323-85152-7.00019-7 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000197">https://www.sciencedirect.com/science/article/pii/B9780323851527000197</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 417-434      | 449                  |
| Kozai, T., Niu, G. and Masabni, G.                                                                 | Concluding remarks                                                                                   | 10.1016/B978-0-323-85152-7.00011-2 | <a href="https://www.sciencedirect.com/science/article/pii/B9780323851527000112">https://www.sciencedirect.com/science/article/pii/B9780323851527000112</a>                                                     | Plant Factory : Basics, Applications and Advances                                                        | Elsevier         | 9780323851527/e9780323859226 | 2021        | 435-437      | 449                  |
| Kozai, T. and Niu, G.                                                                              | Introduction                                                                                         | 10.1016/B978-0-12-816691-8.00001-7 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000017">https://www.sciencedirect.com/science/article/pii/B9780128166918000017</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 3-6          | 487                  |
| Kozai, T. and Niu, G.                                                                              | Role of the plant factory with artificial lighting (PFAL) in urban areas                             | 10.1016/B978-0-12-816691-8.00002-9 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000029">https://www.sciencedirect.com/science/article/pii/B9780128166918000029</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 7-34         | 487                  |
| Kozai, T.                                                                                          | PFAL business and R&D in Asia and North America : status and perspectives : Japan                    | 10.1016/B978-0-12-816691-8.00003-0 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000030">https://www.sciencedirect.com/science/article/pii/B9780128166918000030</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 35-39        | 487                  |
| Kozai, T. and Niu, G.                                                                              | Plant factory as a resource efficient closed plant production system                                 | 10.1016/B978-0-12-816691-8.00005-4 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000054">https://www.sciencedirect.com/science/article/pii/B9780128166918000054</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 93-115       | 487                  |
| Takagaki, M., Hara, H. and Kozai, T.                                                               | Micro- and mini-PFALs for improving the quality of life in urban areas                               | 10.1016/B978-0-12-816691-8.00006-6 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000066">https://www.sciencedirect.com/science/article/pii/B9780128166918000066</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 117-128      | 487                  |
| Niu, G., Kozai, T. and Sabeh, N.                                                                   | Physical environmental factors and their properties                                                  | 10.1016/B978-0-12-816691-8.00011-X | <a href="https://www.sciencedirect.com/science/article/pii/B978012816691800011X">https://www.sciencedirect.com/science/article/pii/B978012816691800011X</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 185-196      | 487                  |
| Kozai, T.                                                                                          | Plant production process, floor plan, and layout of PFAL                                             | 10.1016/B978-0-12-816691-8.00019-4 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000194">https://www.sciencedirect.com/science/article/pii/B9780128166918000194</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 261-271      | 487                  |
| Nunomura, O., Kozai, T., Shinozaki, K. and Oshio, T.                                               | Seeding, seedling production and transplanting                                                       | 10.1016/B978-0-12-816691-8.00021-2 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000212">https://www.sciencedirect.com/science/article/pii/B9780128166918000212</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 285-298      | 487                  |
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| Nguyen, Q.T., Xiao, Y. and Kozai, T.                                                               | Photoautotrophic micropropagation                                                                    | 10.1016/B978-0-12-816691-8.00023-6 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000236">https://www.sciencedirect.com/science/article/pii/B9780128166918000236</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 333-346      | 487                  |
| Kozai, T., Sakaguchi, S., Akiyama, T., Yamada, K. and Ohshima, K.                                  | Design and management of PFALs                                                                       | 10.1016/B978-0-12-816691-8.00025-X | <a href="https://www.sciencedirect.com/science/article/pii/B978012816691800025X">https://www.sciencedirect.com/science/article/pii/B978012816691800025X</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 357-375      | 487                  |
| Kozai, T. and Niu, G.                                                                              | Challenges for the next-generation PFALs                                                             | 10.1016/B978-0-12-816691-8.00032-7 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000327">https://www.sciencedirect.com/science/article/pii/B9780128166918000327</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 463-469      | 487                  |
| Kozai, T. and Niu, G.                                                                              | Conclusions : resource-saving and resource-consuming characteristics of PFALs                        | 10.1016/B978-0-12-816691-8.00033-9 | <a href="https://www.sciencedirect.com/science/article/pii/B9780128166918000339">https://www.sciencedirect.com/science/article/pii/B9780128166918000339</a>                                                     | Plant Factory : Second edition : An Indoor Vertical Farming System for Efficient Quality Food Production | Elsevier         | 9780128166918/e9780128166925 | 2020        | 471-475      | 487                  |
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| 著者名<br>Author(s)                                                                                       | 章タイトル<br>Chapter title                                                                                         | DOI                                | URL                                                                                                                                                         | 書籍タイトル<br>Book Title                                                                       | 出版社<br>Publisher | ISBN                         | 出版年<br>Year | ページ<br>pages | 総ページ数<br>Total Pages |
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| Kozai, T.                                                                                              | Concluding Remarks                                                                                             | 10.1007/978-981-13-1065-2_27       | <a href="https://link.springer.com/chapter/10.1007/978-981-13-1065-2_27">https://link.springer.com/chapter/10.1007/978-981-13-1065-2_27</a>                 | Smart Plant Factory Chapter27                                                              | Springer         | 9789811310645/e9789811310652 | 2018        | 433-441      | 456                  |
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