

Relevant scientific publications on the “keystone actors” concept (participating scientists in **bold**)

Papers published

1. Chambers, J., Wyborn, C., Ryan, M., Reid, R.S., Riechers, M., Serban, A., Bennett, N., Cvitanovic, C., Fernandez-Gimenez, M.E., Galvin, K., Goldstein, B., Klenk, N., Tengö, M., Brennan, R., Cockburn, J., Hill, R., Munera, C., Nel, J., **Österblom, H.**, Bednarek, A., Bennett, E., Brandeis, A., Charli-Joseph, L., Chatterton, P., Curran, K., Dumrongrojwatthana, P., Durán, A.P., Fada, S.J., Gerber, J.D., Green, J., Guerrero, A., Haller, T., Horcea-Milcu, A., Leimona, B., Montana, J., Rondeau, R., Spierenburg, M., Steyaert, P., Zähringer, J., Gruby, R., Hutton, J., Pickering, T. (2021) Six modes of co-production for sustainability. *Nature Sustainability* <https://www.nature.com/articles/s41893-021-00755-x>
2. Virdin, J., Vegh, T., **Jouffray, J.B.**, **Blasiak, R.**, Mason, S., **Österblom, H.**, Vermeer, D., Werner, N. (2021). The Oceans 100: Transnational Corporations in the Ocean Economy. *Science Advances* 7: eabc8041 <https://www.science.org/doi/10.1126/sciadv.abc8041>
3. Carmine, G., Mayorga, J., Miller, N.A., Park, J., Halpin, P.N., **Ortuño Crespo, G.**, **Österblom, H.**, Sala, E., Jacquet, J. (2020) Who is the high seas fishing industry? *One Earth* 3: 730-738 <https://reader.elsevier.com/reader/sd/pii/S2590332220306072?token=D872D523D9E9A4F43D65989F060BCDF34A54E37A79A25956830B152D5F823E590FE58EA86480A8D5F8F68611FD424156&originRegion=us-east-1&originCreation=20211026121918>
4. **Österblom, H.**, Cvitanovic, C., van Putten, I., Addison, P. **Blasiak, P.**, **Jouffray, J.-B.**, **Bebbington, J.**, Hall, J., Ison, S., LeBris, A., Mynott, S., Reid, D., Sugimoto, A. (2020) Science-industry collaboration – sideways or highways to ocean sustainability? *One Earth* 3: 79-88. <https://reader.elsevier.com/reader/sd/pii/S2590332220303006?token=6CFA02321FF6C3AC30C45B3752244C6F8E2F1C159580A77A1361F733B9B61274AEB2506A0AFEF80A61E4FA3D16BA0762&originRegion=us-east-1&originCreation=20211026122008>
5. Brodie Rudolph, T., Swilling, M., Ruckelshaus, M. Allison, E.H., **Österblom, H.**, Gelcich, H., Mbatha, P. (2020) A transition to sustainable ocean governance. *Nature Communications* 11: 3600 <https://www.nature.com/articles/s41467-020-17410-2>
6. **Österblom, H.**, **Bebbington, J.**, **Folke, C.**, **Blasiak, R.**, **Crona, B.**, **Henriksson, P.**, **Jouffray, J.-B.**, **Merrie, A.**, **Rockström, J.**, **Schultz, L.**, **Selig, E.**, **Spijkers, J.**, **Troell, M.**, **Wabnitz, C.** (2020) 海洋管理に向けた水産事業 (SeaBOS) の取り組み –発足の経緯と初期成果 [The Seafood Business for Ocean Stewardship (SeaBOS) initiative : Origin, Development and First Results] *Environmental Information Science* 49, 72-82
7. **Folke, C.**, **Österblom, H.**, **Jouffray, J.-B.**, Lambin, E., Scheffer, M., Adger, N.W., **Crona, B.**, Nyström, M., Levin, S., Carpenter, S.R., Anderies, J., Chapin III, S., Crépin, A.-S., Dauriach, A., Galaz, V., Gordon, L., Kautsky, N. Walker, B., Watson, J., Wilen, J., de Zeeuw, A. (2020) An invitation for more research on transnational corporations and the biosphere *Nature Ecology and Evolution* (response) <https://www.nature.com/articles/s41559-020-1145-2>
8. **Jouffray, J.-B.**, **Blasiak, R.**, Norström, A.V., **Österblom, H.**, Nyström, M. (2020) The Blue Acceleration: The Trajectory of Human expansion into the ocean. *One Earth* 2 (1) 43- 54. <https://reader.elsevier.com/reader/sd/pii/S2590332219302751?token=8A2FFE9C787045AAADD202174C9B934C469FF0C482CF607C2457D6C578DB24A631656D372BA2B95CF73BD3225E1651AB&originRegion=us-east-1&originCreation=20211026122113>
9. Norström, A.V., Cvitanovic, C., Löf, M.F., West, S., Wyborn, C., Balvanera, P., Bednarek, A.T., Bennett, E.M., Biggs, R., de Bremond, A., Campbell, B.M., Canadell, J. G., Carpentier, S.R., Folke, C., Fulton, E.A., Gaffney, O., Gelcich, S., **Jouffray, J.-B.**, Leach, M., LeTissier, M., Martín-López, B., Loutre, M.-F., Meadow, A.M., Nagendra, H., Payne, D., Peterson, G., Reyers, B., Scholes, B., Speranza, C.I., Spierenburg, M., Stafford-Smith, M., Tengö, M., van der Hel, S., van Putten, I., **Österblom, H.** (2020) Principles for knowledge co-production in sustainability research. *Nature Sustainability* 1:9 <https://www.nature.com/articles/s41893-019-0448-2>
10. **Blasiak, R.**, **Jouffray, J.B.**, **Wabnitz, C.C.** and **Österblom, H.**, 2019. Scientists should disclose origin in marine gene patents. *Trends in ecology & evolution*, 34(5), pp.392- 395. [https://www.cell.com/trends/ecology-evolution/fulltext/S0169-5347\(19\)30051-5](https://www.cell.com/trends/ecology-evolution/fulltext/S0169-5347(19)30051-5)
11. Nyström, M., **Jouffray, J.-B.**, Norström, A.V., **Crona, B.**, **Søgaard Jörgensen, P.**, Carpenter, S.R., Bodin, Ö., Galaz, V., **Folke, C.** (2019). Anatomy and resilience of the global production ecosystem. *Nature* 575, 98-108, <https://www.nature.com/articles/s41586-019-1712-3> doi:10.1038/s41586-019-1712-3 (2019).

12. **Jouffray, J.-B., Crona, B., Wassenius, W., Bebbington, J., Scholtens, B.** (2019) Leverage points in the financial sector for seafood sustainability. *Science Advances* 5: 10, eaxx3324
<https://www.science.org/doi/10.1126/sciadv.aax3324>
13. **Bebbington, J., Österblom, H., Crona, B. Jouffray, J.-B., Larrinaga, C., Russell, S., Scholtens, B.** (2019) Accounting and Accountability in the Anthropocene *Accounting, Organizations and Society*.
<https://doi.org/10.1108/AAAJ-11-2018-3745>
<https://www.emerald.com/insight/content/doi/10.1108/AAAJ-11-2018-3745/full/html>
14. **Folke, C., Österblom, H., Jouffray, J.-B., Lambin, E., Scheffer, M., Adger, N.W., Crona, B., Nyström, M., Levin, S., Carpenter, S.R., Anderies, J., Chapin III, S., Crépin, A.-S., Dauriach, A., Galaz, V., Gordon, L., Kautsky, N. Walker, B., Watson, J., Wilen, J., de Zeeuw, A.** (2019) Transnational corporation and the challenge of biosphere stewardship. *Nature Ecology and Evolution* 3: 1396-1403
<https://www.nature.com/articles/s41559-019-0978-z>
15. Galaz, V., **Crona, B., Dauriach, A., Jouffray, J.-B., Österblom, H., Fichtner, J.** (2018) Tax havens and global environmental degradation. *Nature Ecology and Evolution* 2: 1352-1357
<https://www.nature.com/articles/s41559-018-0497-3>
16. **Blasiak, R., Jouffray, J.-B., Wabnitz, C.C.C., Sundström, E., Österblom, H.** (2018). Corporate control and global governance of marine genetic resources. *Science Advances* 4 (6): eaar5237
<https://www.science.org/doi/10.1126/sciadv.aar5237>
17. **Österblom, H., Jouffray, J.-B., Folke, C., Rockström, J.** (2017) Emergence of a global science-business initiative for ocean stewardship. *Proceedings of the National Academy of Sciences, USA* 114: 9038-9043
<https://www.pnas.org/content/114/34/9038>
18. **Österblom, H.** (2017). Reimagining ocean governance using the keystone species concept. *Nature Ecology & Evolution* 1: 1033 doi:10.1038/s41559-017-0133 <https://www.nature.com/articles/s41559-017-0133>
19. **Österblom, H., Jouffray, J.-B., Spijkers, J.** (2016) Where and how to prioritize fishery reform? *Proceedings of the National Academy of Sciences, USA* www.pnas.org/cgi/doi/10.1073/pnas.1605723113
<https://www.pnas.org/content/113/25/E3473>
20. **Österblom, H., Jouffray, J.B., Folke, C., Crona, B., Merrie, A., Troell, M., Rockström, J.** (2015) Transnational Corporations as 'Keystone Actors' in Marine Ecosystems *PLOS ONE* 10(5): e0127533.
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0127533>

Blue papers for the High Level Panel for a Sustainable Ocean Economy

1. Swilling, M., Ruckelshaus, M., Brodie Rudolph, T. Allison, E.H., Gelcich, S., Mbatha, P., **Österblom, H.** 2020. The Ocean Transition: What to Learn from System Transitions. Washington, DC: World Resources Institute. www.oceanpanel.org/blue-papers/ocean-transition-what-learn-system-transitions
2. **Österblom, H., Wabnitz, C.C.C.** Tladi, D., Allison, E.H., Arnaud-Haond, S., **Bebbington, J.,** Bennett, N., **Blasiak, R.,** Boonstra, W. Choudhury, A., Cisneros-Montemayor, A., Daw, A., Fabinyi, M., Franz, N., Harden-Davies, H., Kleiber, D., Lopes, P., McDougall, C., Resosudarmo, B.P. Selim, S.A. 2020 Towards Ocean Equity. Washington, DC: World Resources Institute. Available online at <https://www.oceanpanel.org/sites/default/files/2020-04/towards-ocean-equity.pdf>
3. **Blasiak, R.,** R. Wynberg, K. Grorud-Colvert, S. Thambisetty, et al. 2020. The Ocean Genome: Conservation and the Fair, Equitable and Sustainable Use of Marine Genetic Resources. Washington, DC: World Resources Institute. <https://oceanpanel.org/sites/default/files/2020-09/The%20Ocean%20Genome%20Conservation%20and%20the%20Fair%20Equitable%20and%20Sustainable%20Use%20of%20Marine%20Genetic%20Resources.pdf>
4. Sumaila, U.R., M. Walsh, K. Hoareau, A. Cox, et al. 2020. Ocean Finance: Financing the Transition to a Sustainable Ocean Economy. Washington, DC: World Resources Institute.
<https://oceanpanel.org/sites/default/files/2020-10/Ocean%20Finance%20Full%20Paper.pdf>