

Directeur de recherche CNRS de classe exceptionnelle (DCRE2)
Laboratoire d'Océanographie de Villefranche
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Situation professionnelle

- 2015-présent : Chercheur associé, Institut du développement durable et des relations internationales, SciencesPo, France
- 2005-présent : Directeur de recherche au CNRS, Laboratoire d'Océanographie de Villefranche

Distinctions (sélection)

- Earth Science and Ecology and Evolution Leader Awards, Research.com (2024)
- Membre élu, Académie des sciences chinoise (2023)
- Prix Ruth Patrick de l'*Association for the Sciences of Limnology and Oceanography* (2020)
- Membre élu, Academia Europaea (2018)
- Médaille Blaise Pascal, *European Academy of Sciences* (2014)
- Membre élu, *European Academy of Sciences* (2014)

Thèmes de recherche

- Cycle du carbone et des carbonates dans l'océan
- Impacts des changements globaux (température, acidité, pollution) sur les organismes, les écosystèmes et les services écosystémiques
- Solutions aux changements climatiques

Activités éditoriales

- 2021-2024: éditeur, *Cambridge Prisms: Coastal Futures*
- 2018-2021 : éditeur de l'édition annuelle du *Copernicus State of the Ocean Report*
- 2011 : éditeur de l'ouvrage *Ocean acidification* publié par *Oxford University Press*
- 2010-2022 : éditeur, *Biogeosciences*
- 2006-présent : éditeur, *The Encyclopedia of Earth*
- 2004-2009 : éditeur-en-chef et fondateur, *Biogeosciences*

Assemblées consultatives nationales et internationales, organisation de congrès (sélection)

- 2023-present: Co-président, International Advisory Committee du projet Ocean Negative Carbon Emissions (MOST ONCE and Global ONCE)
- 2023-présent : Membre, Comité de pilotage du projet du Schéma territorial de restauration écologique de la métropole de Nice
- 2023-présent : Membre, Haut-conseil pour le climat et la biodiversité de la métropole de Nice
- 2022-present: Member, ASLO Redfield Award Committee
- 2021-présent: Membre, Scientific Advisory Board, Research Mission of the German Marine Research Alliance (Marine carbon sinks in decarbonisation pathways; CDRmare)
- 2021-présent : Président, Ocean Acidification & other ocean Changes – Impacts and Solutions (OACIS), Fondation Prince Albert II de Monaco
- 2021-2022 : Membre, Scientific Committee, BNP Paribas Foundation
- 2021-présent : Membre, International Advisory Board of the Aqaba Marine Park, Jordan
- 2021-présent : Membre, Comité scientifique du Programme Prioritaire de Recherche "Océan de solutions"
- 2021-2022 : Membre, Conseil métropolitain sur le climat, Métropole Nice Côte d'Azur
- 2021-2022 : Membre, Agence de sécurité sanitaire, environnementale et de gestion des risques, Métropole Nice Côte d'Azur

- 2018-2022 : Membre, Scientific and Technical Advisory Committee, Copernicus Marine Environment Monitoring Service
- 2017-2019 : Coordinating Lead and Contributing Author, IPCC Special Report on the Ocean and Cryosphere in a Changing Climate
- 2017-2019 : Contributing Author, IPCC Special Report on Global Warming of 1.5 °C
- 2016-présent : Membre, Comité scientifique de la Division Terre et Environnement de l'Académie Européenne des Sciences
- 2015-present: Comité régional d'orientations du Groupe régional d'experts sur le climat en région Provence-Alpes-Côte d'Azur
- 2013-2020 : Membre, Conseil scientifique de Office parlementaire d'évaluation des choix scientifiques et technologiques (OPECST)
- 2012-present : Membre, Advisory Board of the Ocean Acidification International Coordination Centre
- 2002 : Membre fondateur, European Geosciences Union (EGU)

Contrats de recherche (liste partielle)

- Carbon Sequestration in BLUE EcoSystems (C-BLUES), European Commission (2024-2027)
- Polar Ocean Mitigation Potential (POMP), European Commission (2024-2027)
- *The future of Arctic coastal ecosystems - Identifying transitions in fjord systems and adjacent coastal areas*, European Commission H2020 (2020-2024)

Sélection d'articles—Une liste complète est disponible ici: <https://bit.ly/3BMZH3j>

- Google Scholar: 40,472 citations; h-index: 95
- Web of Science: 215 items; 18,820 citations; h-index: 70
- Highly cited researcher in 2021 and 2022
- Research.com Ecology and Evolution leader (#388 in the world, #21 in France)
- Research.com Ecology and Evolution leader (#356 in the world, #13 in France)
- 10 highly cited papers¹ and one hot paper² in the fields of Environment and Ecology.

- <2018 Gattuso J.-P., Frankignoulle M. & Wollast R., 1998. Carbon and carbonate metabolism in coastal aquatic ecosystems. *Annual Review of Ecology and Systematics* 29:405-434.
- Gattuso J.-P., Frankignoulle M. & Smith S. V., 1999. Measurement of community metabolism and significance of coral reefs in the CO₂ source-sink debate. *Proceedings of the National Academy of Science U.S.A.* 96:13017-13022.
- Gattuso J.-P. & Buddemeier R. W., 2000. Ocean biogeochemistry: calcification and CO₂. *Nature* 407:311-312.
- Gattuso J.-P. & Hansson L. (eds.), 2011. *Ocean acidification*, 326 p. Oxford: Oxford University Press.
- Kroeker K., Kordas R., Crim R., Hendriks I., Ramajo L., Singh G., Duarte C. & Gattuso J.-P., 2013. Impacts of ocean acidification on marine organisms: quantifying sensitivities and interaction with warming. *Global Change Biology* 19:1884-1896.
- Wong P. P., Losada I. J., Gattuso J.-P., Hinkel J., Khattabi A., McInnes K., Saito Y. & Sallenger A., 2014. Coastal systems and low-lying areas. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 361-409. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- Gattuso J.-P., Hoegh-Guldberg O. & Pörtner H.-O., 2014. Coral reefs. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 97-100. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.

¹Highly cited papers received enough citations to place them in the top 1% of their academic field based on a highly cited threshold for the field and publication year.

²Hot papers are papers published in the past two years that are in the top one-tenth of one percent (0.1%) for their field and publication period.

- Gattuso J.-P., Brewer P., Hoegh-Guldberg O., Kleypas J. A., Pörtner H.-O. & Schmidt D., 2014. Ocean acidification. In: Field C. B. et al. (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 129-131. Cambridge, United Kingdom and New York, NY, USA: Cambridge University Press.
- Gattuso J.-P., Magnan A., Billé R., Cheung W. W. L., Howes E. L., Joos F., Allemand D., Bopp L., Cooley S., Eakin C. M., Hoegh-Guldberg O., Kelly R. P., Pörtner H., Rogers A. D., Baxter J. M., Laffoley D., Osborn D., Rankovic A., Rochette J., Sumaila U. R., Treyer S. & Turley C., 2015. Contrasting futures for ocean and society from different anthropogenic CO₂ emissions scenarios. *Science* 349:aac4722.
- Orr J. C., Epitalon J.-M. & Gattuso J.-P., 2015. Comparison of ten packages that compute ocean carbonate chemistry. *Biogeosciences* 12:1483-1510.
- Riebesell U. & Gattuso J.-P., 2015. Lessons learned from ocean acidification research. *Nature Climate Change* 5:12-14.
- Magnan A. K., Colombier M., Billé R., Hoegh-Guldberg O., Joos F., Pörtner H.-O., Waisman H., Spencer T. & Gattuso J.-P., 2016. Implications of the Paris Agreement for the ocean. *Nature Climate Change* 6:732-735.
- Kapsenberg L., Alliouane S., Gazeau F., Mousseau L. & Gattuso J.-P., 2017. Coastal ocean acidification and increasing total alkalinity in the northwestern Mediterranean Sea. *Ocean Science* 13:411-426.
- 2018 Bittig H. C., Steinhoff T., Claustre H., Fiedler B., Williams N. L., Sauzède R., Körtzinger A. & Gattuso J.-P., 2018. An alternative to static climatologies: robust estimation of open ocean CO₂ variables and nutrient concentrations from T, S, and O₂ data using Bayesian neural networks. *Frontiers in Marine Science* 5:328.
- Boyd P. W., Collins S., Dupont S., Fabricius K., Gattuso J. P., Havenhand J., Hutchins D. A., Riebesell U., Rintoul M. S., Vichi M., Biswas H., Ciotti A., Gao K., Gehlen M., Hurd C. L., Kurihara H., McGraw C. M., Navarro J. M., Nilsson G. E., Passow U. & Pörtner H.-O., 2018. Experimental strategies to assess the biological ramifications of multiple drivers of global ocean change - a review. *Global Change Biology* 24:2239-2261.
- Cramer W., Guiot J., Fader M., Garrabou J., Gattuso J.-P., Iglesias A., Lange M. A., Lionello P., Llasat M. C., Paz S., Peñuelas J., Snoussi M., Toreti A., Tsimplis M. N. & Xoplaki E., 2018. Climate change and interconnected risks to sustainable development in the Mediterranean. *Nature Climate Change* 8:972-980.
- Gattuso J.-P., Magnan A. K., Bopp L., Cheung W. W. L., Duarte C. M., Hinkel J., Mcleod E., Micheli F., Oschlies A., Williamson P., Billé R., Chalastani V. I., Gates R. D., Irisson J.-O., Middelburg J. J., Pörtner H.-O. & Rau G. H., 2018. Ocean solutions to address climate change and its effects on marine ecosystems. *Frontiers in Marine Science* 5:337.
- Orr J. C., Epitalon J.-M., Dickson A. G. & Gattuso J.-P., 2018. Routine uncertainty propagation for the marine carbon dioxide system. *Marine Chemistry* 207:84-107.
- 2019 Abram N., Gattuso J.-P., Prakash A., Chen L., Chidichimo M. P., Crate S., Enomoto H., Garschagen M., Gruber N., Harper S., Holland E., Kudela R. M., Rice J. D., Steffen K. & von Schuckmann K., 2019. Framing and context of the report. In: Pörtner H.-O., Roberts D., Masson-Delmotte V. & Zhai P. (Eds.), *Special Report on Ocean and Cryosphere in a Changing Climate*, pp. 73-129. Geneva: Intergovernmental Panel on Climate Change.
- Bitter M. C., Kapsenberg L., Gattuso J.-P. & Pfister C. A., 2019. Standing genetic variation fuels rapid adaptation to ocean acidification. *Nature Communications* 10:5821.
- IPCC, 2019. Summary for Policymakers. In: Pörtner H.-O., Roberts D. C., Masson-Delmotte V., Zhai P., M T., Poloczanska E., Mintenbeck K., Nicolai M., Okem A. & Petzold J. (Eds.), *IPCC Special Report on the Ocean and Cryosphere in a Changing Climate*, pp. 3-35. Geneva: Intergovernmental Panel on Climate Change.
- Magnan A. K., Garschagen M., Gattuso J.-P., Hay J. E., Hilmi N., Holland E., Isla F., Kofinas G., Losada I. J., Petzold J., Ratter B., Schuur T., Tabe T. & van de Wal R., 2019. Integrative cross-chapter box on low-lying islands and coasts. In: Pörtner H.-O., Roberts D., Masson-Delmotte V. & Zhai P. (Eds.), *Special Report on Ocean and Cryosphere in a Changing Climate*, pp. 657-674. Geneva: Intergovernmental Panel on Climate Change.
- von Schuckmann K., Le Traon P.-Y., Smith N., Pascual A., Djavidnia S., Gattuso J.-P., Grégoire M. & Nolan G., 2019. Copernicus Marine Service Ocean State Report. *Journal of Operational*

- 2020** Coppola L., Boutin J., Gattuso J.-P., Lefèvre D. & Metzl N., 2020. The carbonate system in the Ligurian Sea. In: Migon C., Nival P. & Sciandra A. (Eds.), *The Mediterranean Sea in the era of global change (volume 1) - Evidence from 30 years of multidisciplinary study of the Ligurian sea*, pp. 79-104. London: ISTE Science Publishing LTD.
- Duarte C. M., Agustí S., Barbier E., Britten G. L., Castilla J. C., Gattuso J.-P., Fulweiler R. W., Hughes T. P., Knowlton N., Lovelock C. E., Lotze H. K., Predragovic M., Poloczanska E., Roberts C. & Worm B., 2020. Rebuilding marine life. *Nature* 580:39-51.
- Fourrier M., Coppola L., Claustre H., d'Ortenzio F., Sauzède R. & Gattuso J. P., 2020. A regional neural network approach to estimate water-column nutrient concentrations and carbonate system variables in the Mediterranean Sea: CANYON-MED. *Frontiers in Marine Science* 7:620.
- Gattuso J.-P., Gentili B., Antoine D. & Doxaran D., 2020. Global distribution of photosynthetically available radiation on the seafloor. *Earth System Science Data* 12:1697-1709.
- Teixidó N., Caroselli E., Alliouane S., Ceccarelli C., Comeau S., Gattuso J.-P., Fici P., Micheli F., Mirasole A., Monismith S. G., Munari M., Palumbi S. R., Sheets E., Urbini L., De Vittor C., Goffredo S. & Gambi M. C., 2020. Ocean acidification causes variable trait shifts in a coral species. *Global Change Biology* 26:6813-6830.
- 2021** Gattuso J.-P., Epitalon J.-M., Lavigne H. & Orr J., 2021. seacarb: seawater carbonate chemistry. R package version 3.2.16. <https://CRAN.R-project.org/package=seacarb>
- Gattuso J.-P., Williamson P., Duarte C. & Magnan A. K., 2021. The potential for ocean-based climate action: negative emissions technologies and beyond. *Frontiers in Climate* 2:575716.
- Kleypas J., Allemand D., Anthony K., Baker A. C., Beck M., Hale L. Z., Hilmi N., Hoegh-Guldberg O., Hughes T., Kaufman L., Kayanne H., Magnan A., Mcleod E., Mumby P., Palumbi S., Richmond R., Rinkevich B., Steneck R. S., Voolstra C. R., Wachenfeld D. & Gattuso J.-P., 2021. Designing a blueprint for coral reef survival. *Biological Conservation* 257:109107.
- Magnan A. K., Pörtner H.-O., Duvat V. K. E., Garschagen M., Guinder V. A., Hoegh-Guldberg O., Zommers Z. & Gattuso J.-P., 2021. Estimating the global aggregated risk of anthropogenic climate change. *Nature Climate Change* 11:879-885.
- von Schuckmann K., Le Traon P.-Y., Smith N., Pascual A., Djavidnia S., Gattuso J.-P. (eds), 2021. Copernicus Marine Service Ocean State Report, Issue 5. *Journal of Operational Oceanography* 14:1-185.
- 2022** Duarte C. M., Gattuso J.-P., Hancke K., Gundersen H., Filbee-Dexter K., Pedersen M. F., Middelburg J. J., Burrows M. T., Krumhansl K. A., Wernberg T., Moore P., Pessarrodona A., Bachmann Ørberg S., Pinto I. S., Assis J., Queirós A. M., Smale D. A., Bekkby T., Serrão E. A. & Krause-Jensen D., 2022. Global estimates of the extent and production of macroalgal forests. *Global Ecology and Biogeography* 31:1422-1439.
- Fourrier M., Coppola L., d'Ortenzio F., Migon C. & Gattuso J.-P., 2022. Impact of intermittent convection in the northwestern Mediterranean Sea on oxygen content, nutrients and the carbonate system. *Journal of Geophysical Research- Oceans* 127:e2022JC018615.
- Gattuso J.-P., Jiao N., Chen F., Jouzel J., Le Quéré C., Lu Y., Tréguer P., von Schuckmann K., Wang Z. L. & Zang J., 2022. *Ocean-based climate action*. 12 p. Beijing and Brussels: Chinese Academy of Sciences and European Academy of Sciences.
- Williamson P. & Gattuso J.-P., 2022. Carbon removal using coastal blue carbon ecosystems is uncertain and unreliable, with questionable climatic cost-effectiveness. *Frontiers in Climate* 4.
- Fourrier M., Coppola L., d'Ortenzio F., Migon C. & Gattuso J.-P., 2022. Impact of intermittent convection in the northwestern Mediterranean Sea on oxygen content, nutrients and the carbonate system. *Journal of Geophysical Research- Oceans* 127:e2022JC018615.
- Lebrun A., Comeau S., Gazeau F. & Gattuso J.-P., 2022. Impact of climate change on coastal Arctic benthic communities. *Global and Planetary Change* 219:103980.
- 2023** Boyd P. W., Claustre H., Legendre L., Gattuso J.-P. & Le Traon P.-Y., in press. Operational monitoring of open-ocean carbon dioxide removal deployments: detection, attribution, and determination of side-effects. *Oceanography* 36.
- Gattuso J.-P., Alliouane S. & Fischer P., 2023. High-frequency, year-round time series of the carbonate chemistry in a high-Arctic fjord (Svalbard). *Earth System Science Data* 15:2809-2825.
- Heymans S. J. J., Gattuso J.-P., Hicks N., Neukermans G., Landschützer P. & Pörtner H. O., 2023. Blue Carbon: Challenges and opportunities to mitigate the climate and biodiversity crises. *European*

- Hurd C. L., Gattuso J.-P. & Boyd P. W., 2023. Air-sea carbon dioxide equilibrium: Will it be possible to use seaweeds for carbon removal offsets? *Journal of Phycology*. doi:10.1111/jpy.13405.
- Jiang L.-Q., Dunne J., Carter B. R., Tjiputra J. F., Terhaar J., Sharp J. D., Olsen A., Alin S., Bakker D. C. E., Feely R. A., Gattuso J.-P., Hogan P., Ilyina T., Lange N., Lauvset S. K., Lewis E. R., Lovato T., Palmieri J., Santana-Falcón Y., Schwinger J., Séférian R., Strand G., Swart N., Tanhua T., Tsujino H., Wanninkhof R., Watanabe M., Yamamoto A. & Ziehn T., 2023. Global surface ocean acidification indicators from 1750 to 2100. *Journal of Advances in Modeling Earth Systems* 15:e2022MS003563.
- Jiang L., Subhas A., Basso D., Fennel K. & Gattuso J.-P., 2023. Data reporting and sharing for ocean alkalinity enhancement research. *State of the Planet Guide to best practices in ocean alkalinity enhancement research*. doi:10.5194/sp-2-oae2023-13-2023.
- Oschlies A., Stevenson A., Bach L. T., Fennel K., Rickaby R., Satterfield T., Webb R. & Gattuso J.-P., 2023 (eds). *Guide to Best Practices in Ocean Alkalinity Enhancement Research (OAE Guide 23)*. 2-oae2023p. Copernicus Publications. doi:10.5194/sp-2-oae2023.
- Oschlies A., Bach L., Rickaby R., Satterfield T., Webb R. M. & Gattuso J.-P., 2023. Climate targets, carbon dioxide removal and the potential role of ocean alkalinity enhancement. In: Oschlies A., Stevenson A., Bach L., Fennel K., Rickaby R., Satterfield T., Webb R. M. & Gattuso J.-P. (Eds.), *Guide to best practices in ocean alkalinity enhancement research*. doi:10.5194/sp-2-oae2023-1-2023.
- Schlegel R., Bartsch I., Bischof K., Bjørst L., Dannevig H., Diehl N., Duarte P., Hovelsrud G., Juul-Pedersen T., Lebrun A., Merillett L., Miller C., Ren C., Sjer M., Søreide J. & Gattuso J.-P., 2023. Drivers of change in Arctic fjord socio-ecological systems: examples from the European Arctic. *Cambridge Prisms: Coastal Futures* 1:e13. doi:10.1017/cft.2023.1.
- Schlegel R. W., Singh R. K., Gentili B., Bélanger S., Castro de la Guardia L., Krause-Jensen D., Miller C. A., Sejr M. & Gattuso J.-P., 2023. Underwater light environment in Arctic fjords. *Earth System Science Data Discussions*. doi:10.5194/essd-2023-462.
- 2024** Attard K., Singh R. K., Gattuso J.-P., Filbee-Dexter K., Krause-Jensen D., Kühl M., Sejr M. K., Archambault P., Babin M., Bélanger S., Berg P., Glud R. N., Hancke K., Jänicke S., Qin J., Rysgaard S., Sørensen E. B., Tachon F., Wenzhöfer F. & Ardyna M., 2024. Seafloor primary production in a changing Arctic Ocean. *Proceedings of the National Academy of Science U.S.A.* 121:e2303366121.
- Carbonne C., Comeau S., Plichon K., Schaub S., Gattuso J.-P. & Teixidó N., 2024. Response of two temperate scleractinian corals to projected ocean warming and marine heatwaves. *Royal Society Open Science* 11:231683.
- Deprez L., Leadley P., Dooley K., Williamson P., Cramer C., Gattuso J.-P., Rankovic A., Carlson E. L. & Creutzig F., 2024. Sustainability limits needed for CO₂ removal. *Science* 383:484-486.
- Hurd C. L., Gattuso J.-P. & Boyd P. W., 2024. Air-sea carbon dioxide equilibrium: Will it be possible to use seaweeds for carbon removal offsets? *Journal of Phycology* 60:4-14.
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- Miller C. A., Gazeau F., Lebrun A., Gattuso J.-P., Alliouane S., Urrutti P., Schlegel R. W. & Comeau S., 2024. Productivity of mixed kelp communities in an Arctic fjord exhibit tolerance to a future climate. *Science of the Total Environment* 930:172571.
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- Schlegel R. W., Singh R. K., Gentili B., Bélanger S., Castro de la Guardia L., Krause-Jensen D., Miller C. A., Sejr M. & Gattuso J.-P., in press. Underwater light environment in Arctic fjords. *Earth System Science Data*.
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