

Jean-Pierre Gattuso
Curriculum vitae (version courte, 2025-12-29)

Directeur de recherche CNRS émérite
Laboratoire d'Océanographie de Villefranche
181 chemin du Lazaret
F-06230 Villefranche-sur-mer
Téléphone : +33 (0)493763859
Email : jean-pierre.gattuso@imev-mer.fr - Web : <https://jpgattuso.github.io>

Courte biographie

Je suis Directeur de recherche au CNRS au Laboratoire d'Océanographie de Villefranche (Sorbonne Université). Je suis également chercheur associé à l'Institut du Développement Durable et des Relations Internationales (IDDRI-SciencesPo, Paris). Mes recherches portent sur les effets de l'acidification et du réchauffement de l'océan sur les écosystèmes marins et les services qu'ils rendent à la société. J'étudie également les solutions fondées sur l'océan pour atténuer le changement climatique et s'y adapter. J'ai dirigé le lancement de l'*Ocean Acidification International Coordination Centre* à l'Agence internationale de l'énergie atomique. J'ai coédité le premier ouvrage consacré à l'acidification des océans (Oxford University Press) et contribué à plusieurs produits du GIEC (5e Rapport d'évaluation, rapports spéciaux sur un réchauffement de 1,5 °C, et sur l'océan et la cryosphère). J'ai coprésidé le [One Ocean Science Congress](#), un événement spécial des Nations unies organisé en amont de la Conférence des Nations unies sur l'océan de 2025. J'ai reçu la médaille Vladimir Vernadsky de l'European Geosciences Union, la médaille Blaise Pascal de l'Académie européenne des sciences, le prix Ruth Patrick de l'*Association for the Sciences of Limnology and Oceanography* (ASLO), et suis Chevalier de la Légion d'honneur. Je suis membre élu de l'Académie européenne des sciences, de l' Academia Europaea et de l'Académie des sciences chinoise. Je suis également *Fellow* de l'ASLO ainsi que du programme ONCE (Ocean Negative Carbon Emissions). Plus d'informations : <https://jpgattuso.github.io>.

Situation professionnelle

- 2025-présent : Directeur de recherche émérite au CNRS
- 2015-présent : Chercheur associé, Institut du développement durable et des relations internationales, SciencesPo, France
- 2017-2025 : Directeur de recherche CNRS de classe exceptionnelle (DRCE2)
- 2006-2009 : *Research Professor, Marine Biology Institute*, Université de Shantou, Chine
- 2004-2005 : Professeur invité, *Rutgers University* et *National Center for Atmospheric Research*, USA
- 1993-1997 : Directeur de recherche, Centre Scientifique de Monaco, Principauté de Monaco
- 1990-présent: chercheur CNRS
- 1988-1990 : Chercheur postdoctoral, *Australian Institute of Marine Science*
- 1985-1987 : Assistant, Université de Nice

Distinctions (sélection)

- 2025: *Chevalier, Ordre national de la Légion d'honneur*
- 2025: Fellow, *Association for the Sciences of Limnology and Oceanography*
- 2025: Fellow, *Gobal Ocean Negative CO₂ Emissions*
- 2025: Prix "Engagé pour l'océan" de la Fondation de la mer
- 2024: *Earth Science and Ecology and Evolution Leader Awards*, Research.com
- 2023: Membre élu, Académie des sciences chinoise
- 2020: Prix Ruth Patrick de l'*Association for the Sciences of Limnology and Oceanography*
- 2018: Membre élu, Academia Europaea
- 2014: Médaille Blaise Pascal, *European Academy of Sciences*
- 2014: Membre élu, *European Academy of Sciences*
- 2012: Médaille Vladimir Vernadsky, *European Geosciences Union*

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)

- 2025-present: Membre, Comité scientifique de la Fondation de la mer
- 2024-present: Membre, OceanObs'29 Advisory Committee
- 2023-2025: Co-président, One Ocean Science Congress, événement spécial de la conférence des Nations unies sur l'océan, Nice
- 2023-2025: Co-président, International Advisory Committee du projet Ocean Negative Carbon Emissions (MOST ONCE and Global ONCE)
- 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 en cours

- Carbon Sequestration in BLUe EcoSystems (C-BLUES), European Commission (2024-2027)
- Polar Ocean Mitigation Potential (POMP), European Commission (2024-2027)

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

- Google Scholar: 48897 citations; h-index: 103
- Web of Science: 250 items; 23762 citations; h-index: 77
- Highly cited researcher en 2021, 2022 et 2024
- Research.com Earth Science leader (2026: #257 in the world, #14 in France)
- Research.com Ecology and Evolution leader (2023: #284 in the world, #12 in France)
- 10 highly cited papers¹.

- <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.

- 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., Waismann 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 Schukmann 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., Sauzéde 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*

- 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., Merillet 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.
- 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.
- 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.
- Filbee-Dexter K., Pessarrodona A., Pedersen M. F., Wernberg T., Duarte C. M., Assis J., Bekkby T., Burrows M. T., Carlson D. F., Gattuso J.-P., Gundersen H., Hancke K., Krumhansl K. A., Kuwae T., Middelburg J. J., Moore P., Bachmann Ørberg S., Queirós A. M., Serrão E. A., Smale D. A., Pinto I. S., Suzuki N. & Krause-Jensen D., 2024. Carbon export from seaweed forests to deep ocean sinks. *Nature Geoscience* 17:552-559.
- Hulver A. M., Carbonne C., Teixidó N., Comeau S., Kemp D. W., Keister E. F., Gattuso J.-P. & Grottoli A. G., 2024. Elevated heterotrophic capacity as a strategy for Mediterranean corals to cope with low pH at CO₂ vents. *PLoS ONE* 19:e0306725.
- 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.
- Pernet F., Dupond S., Gattuso J.-P., Metian M. & Gazeau F., 2024. Cracking the myth: Bivalve farming is not a CO₂ sink. *Reviews in Aquaculture*.
- 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., 2024. Underwater light environment in Arctic fjords. *Earth System Science Data* 16:2773-2788.
- Teixidó N., Carlot J., Alliouane S., Ballesteros E., De Vittor C., Gambi M. C., Gattuso J., Kroeker K., Micheli F., Mirasole A., Parravacini V. & Villéger S., 2024. Functional changes across marine habitats due to ocean acidification. *Global Change Biology* 30, e17105. doi:10.1111/gcb.17105.
- 2025**
- Boyd P., Gattuso J.-P., Legendre L., Moustakis Y. & Pongratz J., 2025. Effective carbon dioxide removal requires a One-Earth approach. *Environmental Research Letters* 20:111004.
- Carlot J., Galobart C., Gómez-Gras D., Santamaría J., Golo R., Sini M., Cebrian E., Gerovasileiou V., Ponti M., Turicchia E., Comeau S., Rilov G., Tamburello L., Pulido Mantas T., Cerrano C., Ledoux J. B., Gattuso J.-P., Ramirez-Calero S., Millan L., Montefalcone M., Katsanevakis S., Bensoussan N., Garrabou J. & Teixidó N., 2025. Vulnerability of benthic trait diversity across the Mediterranean Sea following mass mortality events. *Nature Communications* 16:1571.
- Castro de la Guardia L., Bartsch I., Hop H., Niedzwiedz S., Düsedau L., Diehl N., Krause-Jensen D., Sejr M., Ager T. G., Gattuso J., Schlegel R. W., Miller C. A., Filbee-Dexter K. & Duarte P., 2025. Predicting potential Arctic kelp distribution and lower-depth biomass from seafloor irradiance.

Limnology and Oceanography: Methods.

- Doney S., Lebling K., Ashford O. S., Pearce C. R., Burns W., Nawaz S., Satterfield T., Findlay H. S., Gallo N. D., Gattuso J.-P., Halloran P., Ho D. T., Levin L. A., Savoldelli C., Singh P. A. & Webb R., 2025. Principles for responsible and effective marine carbon dioxide removal development and governance. 75 p. Washington, DC: World Resources Institute.
- Gattuso J.-P., Houllier F., Adams J. B., Amon D., Bambridge T., Cheung W. W. L., Chiba S., Cortés J., Duarte C. M., Frölicher T. L., Gelcich S., Gjerde K., Greaves D., Haugan P., Li D., Takoko M. & Tuda A., 2025. Recommendations to Heads of State and Government from the International Scientific Committee of the One Ocean Science Congress. 14 p. Nice: One Ocean Science Congress.
- Gattuso J.-P., Houllier F., Adams J., Amon D., Bambridge T., Cheung W., Chiba S., Cortés J., Duarte C. M., Frölicher T., Gelcich S., Gjerde K., Greaves D., Haugan P. M., Li D. & Tuda A., 2025. US federal cuts threaten international ocean science and diplomacy. *Nature Ecology & Evolution* 9:1079-1080.
- Hassoun A. E. R., Mojtabahid M., Merheb M., Lionello P., Gattuso J.-P. & Cramer W., 2025. Climate change risks on key open marine and coastal mediterranean ecosystems. *Scientific Reports* 15:24907.
- Lebrun A., Miller C., Gazeau F., Urruti P., Alliouane S., Gattuso J.-P. & Comeau S., 2025. Tolerance of organisms composing an Arctic kelp community to ocean warming and marine heatwaves. *Journal of Ecology* 113:1938-1954.
- Metzl N., Fin J., Lo Monaco C., Mignon C., Alliouane S., Bomblet B., Boutin J., Bozec Y., Comeau S., Conan P., Coppola L., Cuet P., Ferreira E., Gattuso J.-P., Gazeau F., Goyet C., Grossteffan E., Lansard B., Lefèvre D., Lefèvre N., Leseurre C., Petton S., Pujo-Pay M., Rabouille C., Reverdin G., Ridame C., Rimmelin-Maury P., Ternon J.-F., Touratier F., Tribollet A., Wagener T. & Wimart-Rousseau C., 2025. An updated synthesis of ocean total alkalinity and dissolved inorganic carbon measurements from 1993 to 2023: the SNAPO-CO₂-v2 dataset. *Earth System Science Data* 17:1075-1100.
- Oschlies A., Bach L., Fennel K., Gattuso J.-P. & Mengis N., 2025. Perspectives and challenges of marine carbon dioxide removal. *Frontiers in Climate* 6. doi:10.3389/fclim.2024.1506181
- Pernet F., Dupont S., Gattuso J.-P., Metian M. & Gazeau F., 2025. Bivalve farming is not a CO₂ sink: From myth to legend — Where is science? *Reviews in Aquaculture* 17:e70067.
- Veytia D., Comte A., Viard F., Gattuso J.-P., Bopp L., Bonnin M. & Shin Y., 2025. Océan et climat : quelles options pour demain ? Un regard sur la recherche en France. The Conversation.
- Veytia D., Mariani G., Marti Barclay V., Airoldi L., Claudet J., Cooley S., Magnan A., Neill S., Sumaila R., Thébaud O., Voolstra C. R., Williamson P., Bonnin M., Langridge J., Comte A., Viard F., Shin Y.-J., Bopp L. & Gattuso J.-P., 2025. A machine learning-based evidence map of ocean-related options for climate change mitigation and adaptation. *npj Ocean Sustainability* 4:60.