

# Pier Luigi Buttigieg

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,880  
citations

279487

23  
h-index

197535

49  
g-index

77  
all docs

77  
docs citations

77  
times ranked

6266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial diversity through an oceanographic lens: refining the concept of ocean provinces through trophic level analysis and productivity-specific length scales. <i>Environmental Microbiology</i> , 2022, 24, 404-419.	1.8	9
2	Unifying the known and unknown microbial coding sequence space. <i>ELife</i> , 2022, 11, .	2.8	41
3	The Ocean Biomolecular Observing Network (OBON). <i>Marine Technology Society Journal</i> , 2022, 56, 106-107.	0.3	4
4	Perspectives on Documenting Methods to Create Ocean Best Practices. <i>Frontiers in Marine Science</i> , 2021, 7, .	1.2	6
5	Comparison of Two 16S rRNA Primers (V3 and V4) for Studies of Arctic Microbial Communities. <i>Frontiers in Microbiology</i> , 2021, 12, 637526.	1.5	77
6	A streamlined workflow for conversion, peer review, and publication of genomics metadata as omics data papers. <i>GigaScience</i> , 2021, 10, .	3.3	6
7	Evolving and Sustaining Ocean Best Practices to Enable Interoperability in the UN Decade of Ocean Science for Sustainable Development. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	10
8	Hydrographic fronts shape productivity, nitrogen fixation, and microbial community composition in the southern Indian Ocean and the Southern Ocean. <i>Biogeosciences</i> , 2021, 18, 3733-3749.	1.3	14
9	Establishing the Foundation for the Global Observing System for Marine Life. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	11
10	OBO Foundry in 2021: operationalizing open data principles to evaluate ontologies. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	1.4	77
11	Toward a Global Public Repository of Community Protocols to Encourage Best Practices in Biomolecular Ocean Observing and Research. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	12
12	Best Practices uptake process across the Ocean Observing Community. , 2021, , .		0
13	The Ontologies Community of Practice: A CGIAR Initiative for Big Data in Agrifood Systems. <i>Patterns</i> , 2020, 1, 100105.	3.1	53
14	Lessons Learnt From Linking Global Recommendations With Localized Marine Restoration Schemes and Policy Options by Using Mixed Methods. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	1
15	Diversity and metabolism of <i>Woeseiales</i> bacteria, global members of marine sediment communities. <i>ISME Journal</i> , 2020, 14, 1042-1056.	4.4	51
16	Transforming the study of organisms: Phenomic data models and knowledge bases. <i>PLoS Computational Biology</i> , 2020, 16, e1008376.	1.5	12
17	Global Observational Needs and Resources for Marine Biodiversity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	77
18	A Response to Scientific and Societal Needs for Marine Biological Observations. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	26

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19	Editorial: Oceanobs'19: An Ocean of Opportunity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	10
20	Semantic Harmonisation of Numeric Data from Open Government Data. , 2019, , .		1
21	Ocean Data Product Integration Through Innovation-The Next Level of Data Interoperability. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	40
22	The Ocean Best Practices System - Supporting a Transparent and Accessible Ocean. , 2019, , .		4
23	Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	73
24	The Bari Manifesto: An interoperability framework for essential biodiversity variables. <i>Ecological Informatics</i> , 2019, 49, 22-31.	2.3	43
25	Gene expression and ultrastructure of meso- and thermophilic methanotrophic consortia. <i>Environmental Microbiology</i> , 2018, 20, 1651-1666.	1.8	90
26	Marine microbes in 4D " using time series observation to assess the dynamics of the ocean microbiome and its links to ocean health. <i>Current Opinion in Microbiology</i> , 2018, 43, 169-185.	2.3	54
27	Recurrent patterns of microdiversity in a temperate coastal marine environment. <i>ISME Journal</i> , 2018, 12, 237-252.	4.4	135
28	Characterization of bacterioplankton communities and quantification of organic carbon pools off the Galapagos Archipelago under contrasting environmental conditions. <i>PeerJ</i> , 2018, 6, e5984.	0.9	8
29	Sharing Best Practices Among Operators and Users of Oceanographic Data: Challenge, Status, and Plans of the Ocean Best Practices Project. <i>Marine Technology Society Journal</i> , 2018, 52, 8-12.	0.3	0
30	Modelling plankton ecosystems in the meta-omics era. Are we ready?. <i>Marine Genomics</i> , 2017, 32, 1-17.	0.4	29
31	Diazotroph Diversity in the Sea Ice, Melt Ponds, and Surface Waters of the Eurasian Basin of the Central Arctic Ocean. <i>Frontiers in Microbiology</i> , 2016, 7, 1884.	1.5	39
32	EXTRACT: interactive extraction of environment metadata and term suggestion for metagenomic sample annotation. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw005.	1.4	40
33	Value, but high costs in post-deposition data curation. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, bav126.	1.4	12
34	The environment ontology in 2016: bridging domains with increased scope, semantic density, and interoperation. <i>Journal of Biomedical Semantics</i> , 2016, 7, 57.	0.9	173
35	MyOSD 2014: Evaluating Oceanographic Measurements Contributed by Citizen Scientists in Support of Ocean Sampling Day. <i>Journal of Microbiology and Biology Education</i> , 2016, 17, 163-171.	0.5	6
36	Emerging semantics to link phenotype and environment. <i>PeerJ</i> , 2015, 3, e1470.	0.9	15

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37	Semantics in Support of Biodiversity Knowledge Discovery: An Introduction to the Biological Collections Ontology and Related Ontologies. PLoS ONE, 2014, 9, e89606.	1.1	111
38	The R package otu2ot for implementing the entropy decomposition of nucleotide variation in sequence data. Frontiers in Microbiology, 2014, 5, 601.	1.5	19
39	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. Journal of Biomedical Semantics, 2014, 5, 5.	0.9	47
40	Ultra-high-resolution paleoenvironmental records via direct laser-based analysis of lipid biomarkers in sediment core samples. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15669-15674.	3.3	45
41	A guide to statistical analysis in microbial ecology: a community-focused, living review of multivariate data analyses. FEMS Microbiology Ecology, 2014, 90, 543-550.	1.3	314
42	Meeting report: advancing practical applications of biodiversity ontologies. Standards in Genomic Sciences, 2014, 9, .	1.5	11
43	Biogeographic patterns of bacterial microdiversity in Arctic deep-sea sediments (HAUSGARTEN, Fram) Tj ETQq1 1 0,784314 rgBT /Ovele 1.5 17	1.5	17
44	The environment ontology: contextualising biological and biomedical entities. Journal of Biomedical Semantics, 2013, 4, 43.	0.9	244
45	Clarifying Concepts and Terms in Biodiversity Informatics. Standards in Genomic Sciences, 2013, 8, 352-359.	1.5	5
46	Ecogenomic Perspectives on Domains of Unknown Function: Correlation-Based Exploration of Marine Metagenomes. PLoS ONE, 2013, 8, e50869.	1.1	11
47	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MlxS) specifications. Nature Biotechnology, 2011, 29, 415-420.	9.4	608
48	CDinFusion â€“ Submission-Ready, On-Line Integration of Sequence and Contextual Data. PLoS ONE, 2011, 6, e24797.	1.1	7
49	Quantifying the effect of environment stability on the transcription factor repertoire of marine microbes. Microbial Informatics and Experimentation, 2011, 1, 9.	7.6	5
50	MetaBar - a tool for consistent contextual data acquisition and standards compliant submission. BMC Bioinformatics, 2010, 11, 358.	1.2	10
51	Perspectives on presentation and pedagogy in aid of bioinformatics education. Briefings in Bioinformatics, 2010, 11, 587-597.	3.2	6
52	Megx.net: integrated database resource for marine ecological genomics. Nucleic Acids Research, 2010, 38, D391-D395.	6.5	35
53	Applying graph theoretic approaches to microbial metagenomes. , 2010, , .		0
54	Pseudomonas syringae Pathovars and Related Pathogens â€“ Identification, Epidemiology and Genomics. , 2008, , .		9

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55	Cathepsin B is essential for regeneration of scratch-wounded normal human epidermal keratinocytes. European Journal of Cell Biology, 2007, 86, 747-761.	1.6	60
56	Aligning Standards Communities: Sustainable Darwin Core MlxS Interoperability. Biodiversity Information Science and Standards, 0, 5, .	0.0	2
57	The Ontologies Community of Practice: An Initiative by the CGIAR Platform for Big Data in Agriculture. SSRN Electronic Journal, 0, , .	0.4	4
58	The Global Omics Observatory Network: Shaping standards for long-term molecular observation. Biodiversity Information Science and Standards, 0, 3, .	0.0	8
59	Unifying European Biodiversity Informatics (BioUnify). Research Ideas and Outcomes, 0, 2, e7787.	1.0	6
60	New molecular methods to assess biodiversity. Potentials and pitfalls of DNA metabarcoding: a workshop report. Research Ideas and Outcomes, 0, 5, .	1.0	2
61	Semantically Defining Populations for 'Omics Research. Biodiversity Information Science and Standards, 0, 1, e20435.	0.0	1
62	Building semantics in the domain of trait data: an OBO Library approach. Biodiversity Information Science and Standards, 0, 1, e20293.	0.0	0
63	FAIR.ReD: Semantic knowledge graph infrastructure for the life sciences. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
64	Semantic Interoperability Solutions for the Essential Variables: Focus on biodiversity. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
65	Mainstreaming Molecular Biodiversity: A call for a unified and interoperable framework. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
66	Towards an Ontology of Comparative Biogeography: New insights into the semantics of biodiversity conservation. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
67	Integrating ABCD and DarwinCore: Toward a better foundation for biodiversity information standards. Biodiversity Information Science and Standards, 0, 3, .	0.0	9
68	Streamlined Conversion of Omics Metadata into Manuscript Facilitates Publishing and Reuse of Omics Data. Biodiversity Information Science and Standards, 0, 4, .	0.0	0