

Fabrice Papa

List of Publications by Year in descending order

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108
papers

7,091
citations

61977

43
h-index

66906

78
g-index

129
all docs

129
docs citations

129
times ranked

6536
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of anthropogenic and natural sources to atmospheric methane variability. <i>Nature</i> , 2006, 443, 439-443.	27.8	935
2	Characterization and Space-Time Downscaling of the Inundation Extent over the Inner Niger Delta Using GIEMS and MODIS Data. <i>Journal of Hydrometeorology</i> , 2014, 15, 171-192.	1.9	530
3	Global inundation dynamics inferred from multiple satellite observations, 1993-2000. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	385
4	Interannual variability of surface water extent at the global scale, 1993-2004. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	251
5	Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. <i>Remote Sensing of Environment</i> , 2015, 158, 348-361.	11.0	213
6	Changes in land surface water dynamics since the 1990s and relation to population pressure. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	184
7	An attempt to quantify the impact of changes in wetland extent on methane emissions on the seasonal and interannual time scales. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	177
8	Satellite altimeter-derived monthly discharge of the Ganga-Brahmaputra River and its seasonal to interannual variations from 1993 to 2008. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	174
9	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). <i>Geoscientific Model Development</i> , 2013, 6, 617-641.	3.6	165
10	Ganga-Brahmaputra river discharge from Jason-2 radar altimetry: An update to the long-term satellite-derived estimates of continental freshwater forcing flux into the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	138
11	A modeling study of the processes of surface salinity seasonal cycle in the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3926-3947.	2.6	125
12	Surface freshwater storage and dynamics in the Amazon basin during the 2005 exceptional drought. <i>Environmental Research Letters</i> , 2012, 7, 044010.	5.2	120
13	The Hydrological Modeling and Analysis Platform (HyMAP): Evaluation in the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2012, 13, 1641-1665.	1.9	111
14	Global off-line evaluation of the ISBA-TRIP flood model. <i>Climate Dynamics</i> , 2012, 38, 1389-1412.	3.8	110
15	Interannual variations of river water storage from a multiple satellite approach: A case study for the Rio Negro River basin. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
16	ENVISAT radar altimeter measurements over continental surfaces and ice caps using the ICE-2 retracking algorithm. <i>Remote Sensing of Environment</i> , 2005, 95, 150-163.	11.0	98
17	A new river flooding scheme for global climate applications: Off-line evaluation over South America. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	98
18	The upper Bay of Bengal salinity structure in a high-resolution model. <i>Ocean Modelling</i> , 2014, 74, 36-52.	2.4	88

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19	Near-surface salinity and stratification in the north Bay of Bengal from moored observations. <i>Geophysical Research Letters</i> , 2016, 43, 4448-4456.	4.0	87
20	Monitoring Flood and Discharge Variations in the Large Siberian Rivers From a Multi-Satellite Technique. <i>Surveys in Geophysics</i> , 2008, 29, 297-317.	4.6	86
21	Water level changes, subsidence, and sea level rise in the Ganges-Brahmaputra-Meghna delta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1867-1876.	7.1	86
22	The Lake Chad hydrology under current climate change. <i>Scientific Reports</i> , 2020, 10, 5498.	3.3	84
23	A global analysis of extreme coastal water levels with implications for potential coastal overtopping. <i>Nature Communications</i> , 2021, 12, 3775.	12.8	84
24	Variations of surface water extent and water storage in large river basins: A comparison of different global data sources. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	79
25	Observed interannual variability of near-surface salinity in the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3315-3329.	2.6	79
26	Evolution of Sea Level of the Big Aral Sea from Satellite Altimetry and Its Implications for Water Balance. <i>Journal of Great Lakes Research</i> , 2005, 31, 520-534.	1.9	74
27	Satellite-based estimates of groundwater storage variations in large drainage basins with extensive floodplains. <i>Remote Sensing of Environment</i> , 2011, 115, 1588-1594.	11.0	71
28	Salinity Measurements Collected by Fishermen Reveal a "River in the Sea" Flowing Along the Eastern Coast of India. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1897-1908.	3.3	71
29	A Global Dynamic Long-Term Inundation Extent Dataset at High Spatial Resolution Derived through Downscaling of Satellite Observations. <i>Journal of Hydrometeorology</i> , 2017, 18, 1305-1325.	1.9	62
30	Impact of Ganges-Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992-1999 period. <i>Journal of Earth System Science</i> , 2011, 120, 859-872.	1.3	61
31	Modelling sub-grid wetland in the ORCHIDEE global land surface model: evaluation against river discharges and remotely sensed data. <i>Geoscientific Model Development</i> , 2012, 5, 941-962.	3.6	58
32	Preliminary Assessment of SARAL/AltiKa Observations over the Ganges-Brahmaputra and Irrawaddy Rivers. <i>Marine Geodesy</i> , 2015, 38, 568-580.	2.0	58
33	Satellite-derived surface and sub-surface water storage in the Ganges-Brahmaputra River Basin. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 15-35.	2.4	56
34	Evaluation of the ISBA-TRIP continental hydrologic system over the Niger basin using in situ and satellite derived datasets. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1745-1773.	4.9	55
35	Stable atmospheric methane in the 2000s: key-role of emissions from natural wetlands. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11609-11623.	4.9	55
36	Satellite-based estimates of surface water dynamics in the Congo River Basin. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 66, 196-209.	2.8	55

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37	Ob' River flood inundations from satellite observations: A relationship with winter snow parameters and river runoff. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	53
38	Amazon Hydrology From Space: Scientific Advances and Future Challenges. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000728.	23.0	53
39	The spatio-temporal variability of groundwater storage in the Amazon River Basin. <i>Advances in Water Resources</i> , 2019, 124, 41-52.	3.8	52
40	Sea ice cover in the Caspian and Aral Seas from historical and satellite data. <i>Journal of Marine Systems</i> , 2004, 47, 89-100.	2.1	51
41	Modern hydro-biological state of the Small Aral sea. <i>Environmetrics</i> , 2005, 16, 375-392.	1.4	51
42	Modeling surface water dynamics in the Amazon Basin using MOSART-Inundation v1.0: impacts of geomorphological parameters and river flow representation. <i>Geoscientific Model Development</i> , 2017, 10, 1233-1259.	3.6	48
43	Surface freshwater storage and variability in the Amazon basin from multi-satellite observations, 1993-2007. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,951.	3.3	47
44	Use of the Topex-Poseidon dual-frequency radar altimeter over land surfaces. <i>Remote Sensing of Environment</i> , 2003, 87, 136-147.	11.0	46
45	Diagnosing water variations within the Amazon basin using satellite data. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	46
46	Towards improved storm surge models in the northern Bay of Bengal. <i>Continental Shelf Research</i> , 2017, 135, 58-73.	1.8	46
47	Wetland dynamics using a suite of satellite observations: A case study of application and evaluation for the Indian Subcontinent. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	44
48	Impact of Continental Freshwater Runoff on Coastal Sea Level. <i>Surveys in Geophysics</i> , 2019, 40, 1437-1466.	4.6	43
49	Inundated wetland dynamics over boreal regions from remote sensing: the use of Topex-Poseidon dual-frequency radar altimeter observations. <i>International Journal of Remote Sensing</i> , 2006, 27, 4847-4866.	2.9	42
50	Comparison of visible and multi-satellite global inundation datasets at high-spatial resolution. <i>Remote Sensing of Environment</i> , 2018, 216, 427-441.	11.0	42
51	Estimating terrestrial snow depth with the TOPEX-Poseidon altimeter and radiometer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 2162-2169.	6.3	41
52	A Long-Term, High-Resolution Wetland Dataset over the Amazon Basin, Downscaled from a Multiwavelength Retrieval Using SAR Data. <i>Journal of Hydrometeorology</i> , 2013, 14, 594-607.	1.9	41
53	Observed year-to-year sea surface salinity variability in the Bay of Bengal during the 2009-2014 period. <i>Ocean Dynamics</i> , 2015, 65, 173-186.	2.2	41
54	A study of Bangladesh's sub-surface water storages using satellite products and data assimilation scheme. <i>Science of the Total Environment</i> , 2018, 625, 963-977.	8.0	41

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55	Interannual variations of the terrestrial water storage in the Lower Ob' Basin from a multisatellite approach. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2443-2453.	4.9	40
56	Combining data sets of satellite-retrieved products for basin-scale water balance study: 2. Evaluation on the Mississippi Basin and closure correction model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,100.	3.3	39
57	Surface Freshwater Storage Variations in the Orinoco Floodplains Using Multi-Satellite Observations. <i>Remote Sensing</i> , 2015, 7, 89-110.	4.0	38
58	Water Resources in Africa under Global Change: Monitoring Surface Waters from Space. <i>Surveys in Geophysics</i> , 2023, 44, 43-93.	4.6	38
59	A modeling study of processes controlling the Bay of Bengal sea surface salinity interannual variability. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8471-8495.	2.6	37
60	Bay of Bengal Sea surface salinity variability using a decade of improved SMOS re-processing. <i>Remote Sensing of Environment</i> , 2020, 248, 111964.	11.0	37
61	Mapping Dynamic Water Fraction under the Tropical Rain Forests of the Amazonian Basin from SMOS Brightness Temperatures. <i>Water (Switzerland)</i> , 2017, 9, 350.	2.7	34
62	High resolution mapping of inundation area in the Amazon basin from a combination of L-band passive microwave, optical and radar datasets. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 81, 58-71.	2.8	34
63	Water level estimation by remote sensing for the 2008 flooding of the Kosi River. <i>International Journal of Remote Sensing</i> , 2014, 35, 424-440.	2.9	32
64	Ice cover variability in the Caspian and Aral seas from active and passive microwave satellite data. <i>Polar Research</i> , 2003, 22, 43-50.	1.6	31
65	Improved Bathymetric Dataset and Tidal Model for the Northern Bay of Bengal. <i>Marine Geodesy</i> , 2016, 39, 422-438.	2.0	31
66	Hydrological Variability and Changes in the Arctic Circumpolar Tundra and the Three Largest Pan-Arctic River Basins from 2002 to 2016. <i>Remote Sensing</i> , 2018, 10, 402.	4.0	30
67	Seasonal modulation of M2 tide in the Northern Bay of Bengal. <i>Continental Shelf Research</i> , 2017, 137, 154-162.	1.8	28
68	Toward a High-Resolution Monitoring of Continental Surface Water Extent and Dynamics, at Global Scale: from GIEMS (Global Inundation Extent from Multi-Satellites) to SWOT (Surface Water Ocean Tj ETQq0 0 0 rgt /Overlck 10 TF 5		
69	Trade-offs Between 1D and 2D Regional River Hydrodynamic Models. <i>Water Resources Research</i> , 2020, 56, e2019WR026812.	4.2	27
70	Hydrological Applications of Satellite Altimetry Rivers, Lakes, Man-Made Reservoirs, Inundated Areas. , 2017, , 459-504.		27
71	Surface Water Storage in Rivers and Wetlands Derived from Satellite Observations: A Review of Current Advances and Future Opportunities for Hydrological Sciences. <i>Remote Sensing</i> , 2021, 13, 4162.	4.0	26
72	Recent salinity intrusion in the Bengal delta: Observations and possible causes. <i>Continental Shelf Research</i> , 2020, 202, 104142.	1.8	22

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73	Comparisons of Global Terrestrial Surface Water Datasets over 15 Years. <i>Journal of Hydrometeorology</i> , 2017, 18, 993-1007.	1.9	21
74	Low-water maps of the groundwater table in the central Amazon by satellite altimetry. <i>Geophysical Research Letters</i> , 2014, 41, 1981-1987.	4.0	20
75	Monsoonal intraseasonal oscillations in the ocean heat content over the surface layers of the Bay of Bengal. <i>Journal of Marine Systems</i> , 2017, 167, 19-32.	2.1	19
76	Signature of Indian Ocean Dipole on the western boundary current of the Bay of Bengal. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 136, 91-106.	1.4	19
77	Variations of Surface and Subsurface Water Storage in the Lower Mekong Basin (Vietnam and Cambodia). <i>Journal of Hydrology</i> , 2019, 421, 1015-1027.	2.7	19
78	Uncertainties in Mean River Discharge Estimates Associated With Satellite Altimeter Temporal Sampling Intervals: A Case Study for the Annual Peak Flow in the Context of the Future SWOT Hydrology Mission. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 569-573.	3.1	18
79	Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1364-1373.	6.3	18
80	High-Resolution Intertidal Topography from Sentinel-2 Multi-Spectral Imagery: Synergy between Remote Sensing and Numerical Modeling. <i>Remote Sensing</i> , 2019, 11, 2888.	4.0	18
81	How much inundation occurs in the Amazon River basin?. <i>Remote Sensing of Environment</i> , 2022, 278, 113099.	11.0	18
82	Synergy of active and passive satellite microwave data for the study of first-year sea ice in the Caspian and Aral seas. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2170-2176.	6.3	17
83	Hotspots of Relative Sea Level Rise in the Tropics. <i>Journal of Geophysical Research</i> , 2019, 124, 203-262.		16
84	Evaluation of all-weather microwave-derived land surface temperatures with in situ CEOP measurements. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
85	Fifteen Years (1993-2007) of Surface Freshwater Storage Variability in the Ganges-Brahmaputra River Basin Using Multi-Satellite Observations. <i>Water (Switzerland)</i> , 2017, 9, 245.	2.7	14
86	Backscattering signatures at Ka, Ku, C and S bands from low resolution radar altimetry over land. <i>Advances in Space Research</i> , 2021, 68, 989-1012.	2.6	14
87	Impact of the inundation occurrence on the deep convection at continental scale from satellite observations and modeling experiments. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	13
88	Long-term total water storage change from a Satellite Water Cycle reconstruction over large southern Asian basins. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3033-3055.	4.9	13
89	Historical and future contributions of inland waters to the Congo Basin carbon balance. <i>Earth System Dynamics</i> , 2021, 12, 37-62.	7.1	13
90	Global-scale analysis of satellite-derived time series of naturally inundated areas as a basis for floodplain modeling. <i>Advances in Geosciences</i> , 2021, 0, 27, 45-50.	12.0	12

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91	Ice cover variability in the Caspian and Aral seas from active and passive microwave satellite data. Polar Research, 2003, 22, 43-50.	1.6	11
92	A combined use of in situ and satellite-derived observations to characterize surface hydrology and its variability in the Congo River basin. Hydrology and Earth System Sciences, 2022, 26, 1857-1882.	4.9	10
93	Topography of the intertidal zone along the shoreline of Chittagong (Bangladesh) using PROBA-V imagery. International Journal of Remote Sensing, 2018, 39, 9004-9024.	2.9	8
94	Disentangling vertical land motion and waves from coastal sea level altimetry and tide gauges. Continental Shelf Research, 2021, 231, 104596.	1.8	8
95	Assessing the Potential of Upcoming Satellite Altimeter Missions in Operational Flood Forecasting Systems. Remote Sensing, 2021, 13, 4459.	4.0	8
96	The Cause of an Extremely Low Salinity Anomaly in the Bay of Bengal During 2012 Spring. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017361.	2.6	7
97	Toward a High-Resolution Monitoring of Continental Surface Water Extent and Dynamics, at Global Scale: from GIEMS (Global Inundation Extent from Multi-Satellites) to SWOT (Surface Water Ocean) Tj ETQq1 1 0.784314 rg8T /Over		
98	Surface Freshwater Storage Variations in the Orinoco Floodplains Using Multi-Satellite Observations. Remote Sensing, 2015, 7, 89-110.	4.0	5
99	River Flood Modeling and Remote Sensing Across Scales: Lessons from Brazil. , 2021, , 61-103.		4
100	Coherent Satellite Monitoring of the Water Cycle Over the Amazon. Part 1: Methodology and Initial Evaluation. Water Resources Research, 2021, 57, e2020WR028647.	4.2	4
101	Variations of sea ice extent in the Caspian and Aral seas derived from combination of active and passive satellite microwave data. , 0, , .		3
102	Study and monitoring of sea ice cover in the caspian and aral seas from TOPEX/POSEIDON microwave data. Elsevier Oceanography Series, 2003, 69, 141-145.	0.1	3
103	Redistribution of riverine and rainfall freshwater by the Bay of Bengal circulation. Ocean Dynamics, 2021, 71, 1113-1139.	2.2	3
104	Satellite Altimetry for Monitoring Lake Level Changes. , 2005, , 141-146.		3
105	Correction to "Wetland dynamics using a suite of satellite observations: A case study of application and evaluation for the Indian Subcontinent" Geophysical Research Letters, 2006, 33, .	4.0	0
106	Altimetry backscattering signatures at Ku and S bands over land and ice sheets. Proceedings of SPIE, 2015, , .	0.8	0
107	Backscattering Signatures at Ku Band Over Africa from Jason-3 and Swim. , 2021, , .		0
108	Amazon Water Cycle Observed from Space. Eos, 2022, 103, .	0.1	0