

Fabrice Papa

List of Publications by Year in descending order

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108
papers

7,091
citations

61984

43
h-index

66911

78
g-index

129
all docs

129
docs citations

129
times ranked

6536
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Resources in Africa under Global Change: Monitoring Surface Waters from Space. <i>Surveys in Geophysics</i> , 2023, 44, 43-93.	4.6	38
2	Amazon Water Cycle Observed from Space. <i>Eos</i> , 2022, 103, .	0.1	0
3	A combined use of in situ and satellite-derived observations to characterize surface hydrology and its variability in the Congo River basin. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1857-1882.	4.9	10
4	How much inundation occurs in the Amazon River basin?. <i>Remote Sensing of Environment</i> , 2022, 278, 113099.	11.0	18
5	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
6	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
7	River Flood Modeling and Remote Sensing Across Scales: Lessons from Brazil. , 2021, , 61-103.		4
8	Coherent Satellite Monitoring of the Water Cycle Over the Amazon. Part 1: Methodology and Initial Evaluation. <i>Water Resources Research</i> , 2021, 57, e2020WR028647.	4.2	4
9	A global analysis of extreme coastal water levels with implications for potential coastal overtopping. <i>Nature Communications</i> , 2021, 12, 3775.	12.8	84
10	The Cause of an Extremely Low Salinity Anomaly in the Bay of Bengal During 2012 Spring. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017361.	2.6	7
11	Redistribution of riverine and rainfall freshwater by the Bay of Bengal circulation. <i>Ocean Dynamics</i> , 2021, 71, 1113-1139.	2.2	3
12	Backscattering Signatures at Ku Band Over Africa from Jason-3 and Swim. , 2021, , .		0
13	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
14	Amazon Hydrology From Space: Scientific Advances and Future Challenges. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000728.	23.0	53
15	Disentangling vertical land motion and waves from coastal sea level altimetry and tide gauges. <i>Continental Shelf Research</i> , 2021, 231, 104596.	1.8	8
16	Assessing the Potential of Upcoming Satellite Altimeter Missions in Operational Flood Forecasting Systems. <i>Remote Sensing</i> , 2021, 13, 4459.	4.0	8
17	Water level changes, subsidence, and sea level rise in the Gangesâ€“Brahmaputraâ€“Meghna delta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1867-1876.	7.1	86
18	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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19	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
20	Trade-offs Between 1-km and 2-km Regional River Hydrodynamic Models. <i>Water Resources Research</i> , 2020, 56, e2019WR026812.	4.2	27
21	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
22	The Lake Chad hydrology under current climate change. <i>Scientific Reports</i> , 2020, 10, 5498.	3.3	84
23	Variations of Surface and Subsurface Water Storage in the Lower Mekong Basin (Vietnam and Thailand). <i>Journal of Hydrology</i> , 2019, 574, 123-134.	2.7	19
24	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
25	Impact of Continental Freshwater Runoff on Coastal Sea Level. <i>Surveys in Geophysics</i> , 2019, 40, 1437-1466.	4.6	43
26	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
27	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
28	Hotspots of Relative Sea Level Rise in the Tropics. <i>Journal of Climate</i> , 2019, 32, 203-262.		16
29	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
30	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
31	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
32	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
33	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
34	Topography of the intertidal zone along the shoreline of Chittagong (Bangladesh) using PROBA-V imagery. <i>International Journal of Remote Sensing</i> , 2018, 39, 9004-9024.	2.9	8
35	Towards improved storm surge models in the northern Bay of Bengal. <i>Continental Shelf Research</i> , 2017, 135, 58-73.	1.8	46
36	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

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37	Comparisons of Global Terrestrial Surface Water Datasets over 15 Years. Journal of Hydrometeorology, 2017, 18, 993-1007.	1.9	21
38	Seasonal modulation of M2 tide in the Northern Bay of Bengal. Continental Shelf Research, 2017, 137, 154-162.	1.8	28
39	Monsoonal intraseasonal oscillations in the ocean heat content over the surface layers of the Bay of Bengal. Journal of Marine Systems, 2017, 167, 19-32.	2.1	19
40	Modeling surface water dynamics in the Amazon Basin using MOSART-Inundation v1.0: impacts of geomorphological parameters and river flow representation. Geoscientific Model Development, 2017, 10, 1233-1259.	3.6	48
41	Fifteen Years (1993â€“2007) of Surface Freshwater Storage Variability in the Ganges-Brahmaputra River Basin Using Multi-Satellite Observations. Water (Switzerland), 2017, 9, 245.	2.7	14
42	Mapping Dynamic Water Fraction under the Tropical Rain Forests of the Amazonian Basin from SMOS Brightness Temperatures. Water (Switzerland), 2017, 9, 350.	2.7	34
43	Hydrological Applications of Satellite Altimetry Rivers, Lakes, Man-Made Reservoirs, Inundated Areas. , 2017, , 459-504.		27
44	A modeling study of processes controlling the Bay of Bengal sea surface salinity interannual variability. Journal of Geophysical Research: Oceans, 2016, 121, 8471-8495.	2.6	37
45	Improved Bathymetric Dataset and Tidal Model for the Northern Bay of Bengal. Marine Geodesy, 2016, 39, 422-438.	2.0	31
46	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 /Overlock 10 Tf 5		
47	Nearâ€“surface salinity and stratification in the north Bay of Bengal from moored observations. Geophysical Research Letters, 2016, 43, 4448-4456.	4.0	87
48	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 /Overlock 10 Tf 5		
49	Observed interannual variability of nearâ€“surface salinity in the <sc>B</sc>ay of <sc>B</sc>engal. Journal of Geophysical Research: Oceans, 2015, 120, 3315-3329.	2.6	79
50	Surface Freshwater Storage Variations in the Orinoco Floodplains Using Multi-Satellite Observations. Remote Sensing, 2015, 7, 89-110.	4.0	38
51	Multiangule Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1364-1373.	6.3	18
52	Altimetry backscattering signatures at Ku and S bands over land and ice sheets. Proceedings of SPIE, 2015, , .	0.8	0
53	Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. Remote Sensing of Environment, 2015, 158, 348-361.	11.0	213
54	Observed year-to-year sea surface salinity variability in the Bay of Bengal during the 2009â€“2014 period. Ocean Dynamics, 2015, 65, 173-186.	2.2	41

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55	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
56	Preliminary Assessment of SARAL/AltiKa Observations over the Ganges-Brahmaputra and Irrawaddy Rivers. <i>Marine Geodesy</i> , 2015, 38, 568-580.	2.0	58
57	Surface Freshwater Storage Variations in the Orinoco Floodplains Using Multi-Satellite Observations. <i>Remote Sensing</i> , 2015, 7, 89-110.	4.0	5
58	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
59	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
60	The upper Bay of Bengal salinity structure in a high-resolution model. <i>Ocean Modelling</i> , 2014, 74, 36-52.	2.4	88
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	The Hydrological Modeling and Analysis Platform (HyMAP): Evaluation in the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2012, 13, 1641-1665.	1.9	111
70	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
71	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
72	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

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73	Changes in land surface water dynamics since the 1990s and relation to population pressure. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	184
74	Gangaâ€‘Brahmaputra river discharge from Jasonâ€‘2 radar altimetry: An update to the longâ€‘term satelliteâ€‘derived estimates of continental freshwater forcing flux into the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	138
75	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
76	Global off-line evaluation of the ISBA-TRIP flood model. <i>Climate Dynamics</i> , 2012, 38, 1389-1412.	3.8	110
77	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
78	Evaluation of â€‘all weatherâ€‘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
79	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
80	Impact of Gangesâ€‘Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992â€‘1999 period. <i>Journal of Earth System Science</i> , 2011, 120, 859-872.	1.3	61
81	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
82	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
83	Satellite altimeterâ€‘derived monthly discharge of the Gangaâ€‘Brahmaputra River and its seasonal to interannual variations from 1993 to 2008. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	174
84	Interannual variability of surface water extent at the global scale, 1993â€‘2004. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	251
85	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
86	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
87	A new river flooding scheme for global climate applications: Offâ€‘line evaluation over South America. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	98
88	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
89	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
90	Global inundation dynamics inferred from multiple satellite observations, 1993â€‘2000. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	385

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91	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
92	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
93	Correction to "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	0
94	Inundated wetland dynamics over boreal regions from remote sensing: the use of Topexâ€‘Poseidon dualâ€‘frequency radar altimeter observations. <i>International Journal of Remote Sensing</i> , 2006, 27, 4847-4866.	2.9	42
95	Contribution of anthropogenic and natural sources to atmospheric methane variability. <i>Nature</i> , 2006, 443, 439-443.	27.8	935
96	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
97	Modern hydro-biological state of the Small Aral sea. <i>Environmetrics</i> , 2005, 16, 375-392.	1.4	51
98	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
99	Satellite Altimetry for Monitoring Lake Level Changes. , 2005, , 141-146.		3
100	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
101	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
102	Use of the Topexâ€‘Poseidon dual-frequency radar altimeter over land surfaces. <i>Remote Sensing of Environment</i> , 2003, 87, 136-147.	11.0	46
103	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
104	Study and monitoring of sea ice cover in the caspian and aral seas from TOPEX/POSEIDON microwave data. <i>Elsevier Oceanography Series</i> , 2003, 69, 141-145.	0.1	3
105	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	11
106	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
107	Variations of sea ice extent in the Caspian and Aral seas derived from combination of active and passive satellite microwave data. , 0, , .		3
108	Global-scale analysis of satellite-derived time series of naturally inundated areas as a basis for floodplain modeling. <i>Advances in Geosciences</i> , 0, 27, 45-50.	12.0	12