

Sebastien Masson

List of Publications by Year in descending order

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76
papers

7,428
citations

87401

40
h-index

87275

74
g-index

78
all docs

78
docs citations

78
times ranked

8458
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatomy of the Indian Summer Monsoon and ENSO relationships in state-of-the-art CGCMs: role of the tropical Indian Ocean. <i>Climate Dynamics</i> , 2021, 56, 329-356.	1.7	9
2	EUREC<sup>4</sup>A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	3.7	88
3	Recipes for How to Force Oceanic Model Dynamics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001715.	1.3	35
4	Impact of Oceanâ€™s Atmosphere Current Feedback on Ocean Mesoscale Activity: Regional Variations and Sensitivity to Model Resolution. <i>Journal of Climate</i> , 2020, 33, 2585-2602.	1.2	17
5	Premonsoon/Postmonsoon Bay of Bengal Tropical Cyclones Intensity: Role of Airâ€™s Sea Coupling and Largeâ€™s scale Background State. <i>Geophysical Research Letters</i> , 2019, 46, 2149-2157.	1.5	23
6	Disentangling the Mesoscale Oceanâ€™s Atmosphere Interactions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2164-2178.	1.0	37
7	Remarkable Control of Western Boundary Currents by <i>Eddy Killing</i> , a Mechanical Airâ€™s Sea Coupling Process. <i>Geophysical Research Letters</i> , 2019, 46, 2743-2751.	1.5	52
8	Is there an effect of Bay of Bengal salinity on the northern Indian Ocean climatological rainfall?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 19-33.	0.6	15
9	Modulations of the Indian summer monsoon by the hot subtropical deserts: insights from coupled sensitivity experiments. <i>Climate Dynamics</i> , 2019, 52, 4527-4555.	1.7	8
10	Influence of airâ€™s sea coupling on Indian Ocean tropical cyclones. <i>Climate Dynamics</i> , 2019, 52, 577-598.	1.7	21
11	Towards a realistic simulation of boreal summer tropical rainfall climatology in state-of-the-art coupled models: role of the background snow-free land albedo. <i>Climate Dynamics</i> , 2018, 50, 3413-3439.	1.7	9
12	Impacts of the Mesoscale Oceanâ€™s Atmosphere Coupling on the Peruâ€™s Chile Ocean Dynamics: The Currentâ€™s Induced Wind Stress Modulation. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 812-833.	1.0	22
13	Intrinsic precursors and timescale of the tropical Indian Ocean Dipole: insights from partially decoupled numerical experiment. <i>Climate Dynamics</i> , 2018, 51, 1311-1332.	1.7	20
14	Can Ningaloo NiÃ±o/NiÃ±a Develop Without El NiÃ±oâ€™s Southern Oscillation?. <i>Geophysical Research Letters</i> , 2018, 45, 7040-7048.	1.5	33
15	Roles of land surface albedo and horizontal resolution on the Indian summer monsoon biases in a coupled oceanâ€™s atmosphere tropical-channel model. <i>Climate Dynamics</i> , 2017, 48, 1571-1594.	1.7	22
16	Indian Ocean and Indian summer monsoon: relationships without ENSO in oceanâ€™s atmosphere coupled simulations. <i>Climate Dynamics</i> , 2017, 49, 1429-1448.	1.7	26
17	Resolution dependence of the simulated precipitation and diurnal cycle over the Maritime Continent. <i>Climate Dynamics</i> , 2017, 48, 4009-4028.	1.7	24
18	Satellite Observations of Imprint of Oceanic Current on Wind Stress by Air-Sea Coupling. <i>Scientific Reports</i> , 2017, 7, 17747.	1.6	57

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19	CURRENT STATUS OF INTRASEASONALâ€“SEASONAL-TO-INTERANNUAL PREDICTION OF THE INDO-PACIFIC CLIMATE. World Scientific Series on Asia-Pacific Weather and Climate, 2016, , 63-107.	0.2	45
20	Control and Stabilization of the Gulf Stream by Oceanic Current Interaction with the Atmosphere. Journal of Physical Oceanography, 2016, 46, 3439-3453.	0.7	75
21	Control of shortwave radiation parameterization on tropical climate SST-forced simulation. Climate Dynamics, 2016, 47, 1807-1826.	1.7	3
22	Impacts of Indian and Atlantic oceans on ENSO in a comprehensive modeling framework. Climate Dynamics, 2016, 46, 2507-2533.	1.7	41
23	Mesoscale SSTâ€“wind stress coupling in the Peruâ€“Chile current system: Which mechanisms drive its seasonal variability?. Climate Dynamics, 2016, 47, 2309-2330.	1.7	31
24	The Louvain-La-Neuve sea ice model LIM3.6: global and regional capabilities. Geoscientific Model Development, 2015, 8, 2991-3005.	1.3	171
25	Do regions outside the tropical Pacific influence ENSO through atmospheric teleconnections?. Climate Dynamics, 2015, 45, 583-601.	1.7	20
26	Oceanic factors controlling the Indian summer monsoon onset in a coupled model. Climate Dynamics, 2015, 44, 977-1002.	1.7	38
27	The Curious Case of Indian Ocean Warming*,+. Journal of Climate, 2014, 27, 8501-8509.	1.2	337
28	Role of Tropical SST Variability on the Formation of Subtropical Dipoles. Journal of Climate, 2014, 27, 4486-4507.	1.2	28
29	The NOW regional coupled model: Application to the tropical Indian Ocean climate and tropical cyclone activity. Journal of Advances in Modeling Earth Systems, 2014, 6, 700-722.	1.3	32
30	The upper Bay of Bengal salinity structure in a high-resolution model. Ocean Modelling, 2014, 74, 36-52.	1.0	88
31	Impacts of Indian Ocean SST biases on the Indian Monsoon: as simulated in a global coupled model. Climate Dynamics, 2014, 42, 271-290.	1.7	41
32	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. Climate Dynamics, 2013, 40, 2123-2165.	1.7	1,425
33	Extratropical forcing of ENSO. Geophysical Research Letters, 2013, 40, 1605-1611.	1.5	51
34	Subtropical Dipole Modes Simulated in a Coupled General Circulation Model. Journal of Climate, 2012, 25, 4029-4047.	1.2	54
35	The role of the intra-daily SST variability in the Indian monsoon variability and monsoon-ENSOâ€“IOD relationships in a global coupled model. Climate Dynamics, 2012, 39, 729-754.	1.7	42
36	Impact of intra-daily SST variability on ENSO characteristics in a coupled model. Climate Dynamics, 2012, 39, 681-707.	1.7	117

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37	Large-scale impacts of submesoscale dynamics on phytoplankton: Local and remote effects. <i>Ocean Modelling</i> , 2012, 43-44, 77-93.	1.0	117
38	Assessing the oceanic control on the amplitude of sea surface cooling induced by tropical cyclones. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	92
39	Robustness of SST teleconnections and precursory patterns associated with the Indian summer monsoon. <i>Climate Dynamics</i> , 2012, 38, 2143-2165.	1.7	39
40	Possible role of warm SST bias in the simulation of boreal summer monsoon in SINTEX-F2 coupled model. <i>Climate Dynamics</i> , 2012, 38, 1561-1576.	1.7	25
41	Model of the Regional Coupled Earth system (MORCE): Application to process and climate studies in vulnerable regions. <i>Environmental Modelling and Software</i> , 2012, 35, 1-18.	1.9	57
42	Interannual relationships between Indian Summer Monsoon and Indo-Pacific coupled modes of variability during recent decades. <i>Climate Dynamics</i> , 2011, 37, 1019-1043.	1.7	26
43	Tidal mixing in the Indonesian Seas and its effect on the tropical climate system. <i>Climate Dynamics</i> , 2010, 34, 891-904.	1.7	75
44	Low and high frequency Madden-Julian oscillations in austral summer: interannual variations. <i>Climate Dynamics</i> , 2010, 35, 669-683.	1.7	36
45	Influence of the state of the Indian Ocean Dipole on the following year's El Niño. <i>Nature Geoscience</i> , 2010, 3, 168-172.	5.4	372
46	Modifications of gyre circulation by sub-mesoscale physics. <i>Ocean Modelling</i> , 2010, 34, 1-15.	1.0	118
47	Supplement to Cirene: Air-Sea Interactions in the Seychelles-Chagos Thermocline Ridge Region. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES1-ES4.	1.7	7
48	Cirene: Air-Sea Interactions in the Seychelles-Chagos Thermocline Ridge Region. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 45-62.	1.7	116
49	Tropical Indian Ocean variability revealed by self-organizing maps. <i>Climate Dynamics</i> , 2008, 31, 333-343.	1.7	39
50	Extended ENSO Predictions Using a Fully Coupled Ocean-Atmosphere Model. <i>Journal of Climate</i> , 2008, 21, 84-93.	1.2	240
51	The Role of the Western Arabian Sea Upwelling in Indian Monsoon Rainfall Variability. <i>Journal of Climate</i> , 2008, 21, 5603-5623.	1.2	220
52	Atmospheric Horizontal Resolution Affects Tropical Climate Variability in Coupled Models. <i>Journal of Climate</i> , 2008, 21, 730-750.	1.2	31
53	OPA9 - French Experiments on the Earth Simulator and Teraflop Workbench Tunings. , 2008, , 25-34.		0
54	Experimental Forecasts of the Indian Ocean Dipole Using a Coupled OAGCM. <i>Journal of Climate</i> , 2007, 20, 2178-2190.	1.2	169

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55	The Influence of Tropical Indian Ocean SST on the Indian Summer Monsoon. <i>Journal of Climate</i> , 2007, 20, 3083-3105.	1.2	65
56	Decadal Modulations of the Indian Ocean Dipole in the SINTEX-F1 Coupled GCM. <i>Journal of Climate</i> , 2007, 20, 2881-2894.	1.2	97
57	Termination of Indian Ocean Dipole Events in a Coupled General Circulation Model. <i>Journal of Climate</i> , 2007, 20, 3018-3035.	1.2	29
58	Seasonally Stratified Analysis of Simulated ENSO Thermodynamics. <i>Journal of Climate</i> , 2007, 20, 4615-4627.	1.2	2
59	Role of the ENSO-Indian Ocean coupling on ENSO variability in a coupled GCM. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	112
60	A CGCM Study on the Interaction between IOD and ENSO. <i>Journal of Climate</i> , 2006, 19, 1688-1705.	1.2	288
61	Seasonal Climate Predictability in a Coupled OAGCM Using a Different Approach for Ensemble Forecasts. <i>Journal of Climate</i> , 2005, 18, 4474-4497.	1.2	246
62	Paramount Impact of the Indian Ocean Dipole on the East African Short Rains: A CGCM Study. <i>Journal of Climate</i> , 2005, 18, 4514-4530.	1.2	344
63	Reducing Climatology Bias in an Ocean-Atmosphere CGCM with Improved Coupling Physics. <i>Journal of Climate</i> , 2005, 18, 2344-2360.	1.2	201
64	Annual ENSO simulated in a coupled ocean-atmosphere model. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 39, 41-60.	0.7	17
65	Impact of barrier layer on winter-spring variability of the southeastern Arabian Sea. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	97
66	Impact of salinity on the 1997 Indian Ocean dipole event in a numerical experiment. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	50
67	Evolution of Interannual Warm and Cold Events in the Southeast Atlantic Ocean. <i>Journal of Climate</i> , 2004, 17, 2318-2334.	1.2	95
68	Impacts of salinity on the eastern Indian Ocean during the termination of the fall Wyrтки Jet. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	33
69	The source of Benguela Niños in the South Atlantic Ocean. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	123
70	South Pacific origin of the decadal ENSO-like variation as simulated by a coupled GCM. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	126
71	A model study of the seasonal variability and formation mechanisms of the barrier layer in the eastern equatorial Indian Ocean. <i>Journal of Geophysical Research</i> , 2002, 107, SRF 18-1-SRF 18-20.	3.3	77
72	Ocean response to the March 1997 Westerly Wind Event. <i>Journal of Geophysical Research</i> , 2002, 107, SRF 16-1-SRF 16-20.	3.3	80

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73	A whirling ecosystem in the equatorial Atlantic. <i>Geophysical Research Letters</i> , 2002, 29, 48-1.	1.5	86
74	Role of non-linear oceanic processes in the response to westerly wind events: New implications for the 1997 El Niño onset. <i>Geophysical Research Letters</i> , 2001, 28, 1603-1606.	1.5	33
75	Influence of the Amazon River runoff on the tropical atlantic. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 137-142.	0.3	65
76	Coupled Ocean-Atmosphere Variability in the Tropical Indian Ocean. <i>Geophysical Monograph Series</i> , 0, , 189-211.	0.1	218