D Bala Subrahamanyam

List of Publications by Year
in descending order

44 papers	511 citations	623734 14 h-index	752698 20 g-index
47 all docs	47 docs citations	47 times ranked	416 citing authors

#	Article	IF	Citations
1	Prediction of tropical cyclone trajectories over the Northern Indian Ocean using COSMO. Meteorology and Atmospheric Physics, 2021, 133, 789-802.	2.0	2
2	Numerical simulation of sea-breeze circulation over the Arabian Sea during the passage of a cyclonic storm OCKHI using a regional atmospheric model COSMO. Dynamics of Atmospheres and Oceans, 2021, 96, 101265.	1.8	1
3	Prediction of heavy rainfall days over a peninsular Indian station using the machine learning algorithms. Journal of Earth System Science, 2021, 130, 1.	1.3	8
4	Impact of a very severe cyclonic storm â€˜OCKHIâ€™ on the vertical structure of marine atmospheric boundary layer over the Arabian Sea. Bulletin of Atmospheric Science and Technology, 2020, 1, 407-431.	0.9	3
5	An assessment of a very severe cyclonic storm in the Arabian sea using the COSMO model. SN Applied Sciences, 2020, 2, 1.	2.9	2
6	Performance evaluation of COSMO numerical weather prediction model in prediction of OCKHI: one of the rarest very severe cyclonic storms over the Arabian Seaâ€”a case study. Natural Hazards, 2019, 96, 431-459.	3.4	14
7	Two years observations on the diurnal evolution of coastal atmospheric boundary layer features over Thiruvananthapuram (8.5â˜ N, 76.9â˜ E), India. Theoretical and Applied Climatology, 2018, 131, 77-90.	2.8	15
8	A sea breeze induced thunderstorm over an inland station over Indian South Peninsula â€“ A case study. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 148, 96-111.	1.6	12
9	Evaluation of ABL parametrization schemes in the COSMO, a regional non-hydrostatic atmospheric model over an inhomogeneous environment. Modeling Earth Systems and Environment, 2015, 1, 1.	3.4	8
10	Atmospheric Boundary-Layer Processes and Atmospheric Modeling. Advances in Meteorology, 2015, 2015, 1-2.	1.6	0
11	Diurnal variations of the low-level jet over peninsular India during the onset of Asian summer monsoon. Theoretical and Applied Climatology, 2015, 120, 287-298.	2.8	16
12	Assessment of a surface-layer parameterization scheme in an atmospheric model for varying meteorological conditions. Annales Geophysicae, 2014, 32, 669-675.	1.6	4
13	Improvements in Sensible Heat-Flux Parametrization in the High-Resolution Regional Model (HRM) Through the Modified Treatment of the Roughness Length for Heat. Boundary-Layer Meteorology, 2013, 147, 569-578.	2.3	3
14	Airborne measurements of O3, CO, CH4 and NMHCs over the Bay of Bengal during winter. Atmospheric Environment, 2012, 59, 597-609.	4.1	12
15	Spatial and temporal variabilities in vertical structure of the Marine Atmospheric Boundary Layer over Bay of Bengal during Winter Phase of Integrated Campaign for Aerosols, gases and Radiation Budget. Atmospheric Research, 2012, 107, 178-185.	4.1	11
16	Impact of Annular Solar Eclipse of 15 January 2010 on the Atmospheric Boundary Layer Characteristics Over Thumba: A Case Study. Pure and Applied Geophysics, 2012, 169, 741-753.	1.9	11
17	Location-specific weather predictions for Sriharikota (13.72Â°N, 80.22Â°E) through numerical atmospheric models during satellite launch campaigns. Natural Hazards, 2012, 61, 893-910.	3.4	5
18	Short period variations of the aerosol mass concentrations over Bay of Bengal: Association with quasi-periodic variations in the Marine Atmospheric Boundary Layer parameters and fluxes. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 77, 78-84.	1.6	2

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19	Vertical structure of sea-breeze circulation over Thumba (8.5Â°N,Â76.9Â°E,ÂIndia) in the winter months and a case study during W-ICARB field experiment. Meteorology and Atmospheric Physics, 2012, 115, 113-121.	2.0	10
20	Characterization of airâ€“sea interaction processes over the Bay of Bengal during the winter phase of ICARB field experiment. Atmospheric Research, 2011, 99, 97-111.	4.1	14
21	Vertical profiles of aerosol black carbon in the atmospheric boundary layer over a tropical coastal station: Perturbations during an annular solar eclipse. Atmospheric Research, 2011, 99, 471-478.	4.1	30
22	Atmospheric Surface-Layer Response to the Annular Solar Eclipse of 15 January 2010 over Thiruvananthapuram, India. Boundary-Layer Meteorology, 2011, 141, 325-332.	2.3	15
23	Solar eclipse induced impacts on sea/land breeze circulation over Thumba: A case study. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 703-708.	1.6	23
24	Characterization of the Vertical Structure of Coastal Atmospheric Boundary Layer over Thumba (,) during Different Seasons. Advances in Meteorology, 2011, 2011, 1-9.	1.6	26
25	Characterization of sea/land breeze circulation along the west coast of Indian sub-continent during pre-monsoon season. Atmospheric Research, 2010, 95, 367-378.	4.1	56
26	Seasonal variability in mixed layer height and its impact on trace gas distribution over a tropical urban site: Ahmedabad. Atmospheric Research, 2010, 96, 79-87.	4.1	28
27	Effect of varied atmospheric stability on sea surface drag in shallow seas and its impact on wind-wave growth. Natural Hazards, 2009, 49, 213-224.	3.4	4
28	Parameterization of sea surface drag under varying sea state and its dependence on wave age. Natural Hazards, 2009, 49, 187-197.	3.4	11
29	Parameterization of rain induced surface roughness and its validation study using a third generation wave model. Ocean Science Journal, 2009, 44, 125-143.	1.3	8
30	Impact of wind speed and atmospheric stability on airâ€“sea interface fluxes over the East Asian Marginal Seas. Atmospheric Research, 2009, 94, 81-90.	4.1	7
31	Spatio-temporal Variability of Surface-layer Turbulent Fluxes Over the Bay of Bengal and Arabian sea During the ICARB Field Experiment. Boundary-Layer Meteorology, 2008, 126, 297-309.	2.3	13
32	Intercomparison of Airâ€“Sea Interface Fluxes over the Yellow Sea and Korea Strait: Impact of Tsushima Warm Current. Boundary-Layer Meteorology, 2008, 127, 333-344.	2.3	6
33	Nudging of vertical profiles of meteorological parameters in one-dimensional atmospheric model: A step towards improvements in numerical simulations. Ocean Science Journal, 2008, 43, 165-173.	1.3	3
34	On the marine atmospheric boundary layer characteristics over Bay of Bengal and Arabian Sea during the Integrated Campaign for Aerosols, gases and Radiation Budget (ICARB). Journal of Earth System Science, 2008, 117, 281-291.	1.3	13
35	Parameterization of Wave Attenuation in Muddy Beds and Implication on Coastal Structures. Coastal Engineering Journal, 2008, 50, 309-324.	1.9	8
36	Air-sea interaction processes over the east-asian marginal seas surrounding the Korean peninsula. Annales Geophysicae, 2007, 25, 1477-1486.	1.6	6

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37	A case study of sea breeze circulation at Thumba Coast through observations and modelling. , 2006, , .		3
38	Improvements in simulation of atmospheric boundary layer parameters through data assimilation in ARPS mesoscale atmospheric model. , 2006, 6404, 115.		2
39	A comparative study of air-sea exchange coefficients and turbulent fluxes over Indian sub-continent and Korean peninsula. , 2006, 6404, 263.		2
40	Observations of the atmospheric surface layer parameters over a semi arid region during the solar eclipse of August 11th, 1999. Journal of Earth System Science, 2004, 113, 353-363.	1.3	29
41	Variability of Mixed-Layer Heights over the Indian Ocean and Central Arabian Sea during INDOEX, IFP-99. Boundary-Layer Meteorology, 2003, 107, 683-695.	2.3	32
42	Wind Speed dependence of Air-Sea Exchange parameters over the Indian Ocean during INDOEX, IFP-99. Annales Geophysicae, 2003, 21, 1667-1679.	1.6	16
43	Airâ€“sea interface fluxes over the Indian Ocean during INDOEX, IFP-99. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 291-305.	1.6	14
44	Applications of Mesoscale Atmospheric Models in Short-Range Weather Predictions During Satellite Launch Campaigns in India. , 0, , .		0