

Deepak K Ray

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

15,995
citations

201575

27
h-index

315616

38
g-index

42
all docs

42
docs citations

42
times ranked

20035
citing authors

#	ARTICLE	IF	CITATIONS
1	Solutions for a cultivated planet. <i>Nature</i> , 2011, 478, 337-342.	13.7	5,821
2	Yield Trends Are Insufficient to Double Global Crop Production by 2050. <i>PLoS ONE</i> , 2013, 8, e66428.	1.1	2,328
3	Closing yield gaps through nutrient and water management. <i>Nature</i> , 2012, 490, 254-257.	13.7	2,055
4	Recent patterns of crop yield growth and stagnation. <i>Nature Communications</i> , 2012, 3, 1293.	5.8	1,146
5	Climate variation explains a third of global crop yield variability. <i>Nature Communications</i> , 2015, 6, 5989.	5.8	1,138
6	Leverage points for improving global food security and the environment. <i>Science</i> , 2014, 345, 325-328.	6.0	584
7	Climate change has likely already affected global food production. <i>PLoS ONE</i> , 2019, 14, e0217148.	1.1	470
8	The effects of climate extremes on global agricultural yields. <i>Environmental Research Letters</i> , 2019, 14, 054010.	2.2	382
9	Future warming increases probability of globally synchronized maize production shocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6644-6649.	3.3	301
10	Global gridded crop model evaluation: benchmarking, skills, deficiencies and implications. <i>Geoscientific Model Development</i> , 2017, 10, 1403-1422.	1.3	213
11	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). <i>Geoscientific Model Development</i> , 2015, 8, 261-277.	1.3	190
12	Increasing global crop harvest frequency: recent trends and future directions. <i>Environmental Research Letters</i> , 2013, 8, 044041.	2.2	164
13	Climate adaptation by crop migration. <i>Nature Communications</i> , 2020, 11, 1243.	5.8	153
14	Direct human influence on atmospheric CO2 seasonality from increased cropland productivity. <i>Nature</i> , 2014, 515, 398-401.	13.7	118
15	Impact of land use on Costa Rican tropical montane cloud forests: Sensitivity of orographic cloud formation to deforestation in the plains. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	103
16	Stronger temperature–moisture couplings exacerbate the impact of climate warming on global crop yields. <i>Nature Food</i> , 2021, 2, 683-691.	6.2	100
17	A regional scale assessment of land use/land cover and climatic changes on water and energy cycle in the upper Midwest United States. <i>International Journal of Climatology</i> , 2010, 30, 2025-2044.	1.5	99
18	Effects of land use in Southwest Australia: 1. Observations of cumulus cloudiness and energy fluxes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	73

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19	Spatial and temporal uncertainty of crop yield aggregations. <i>European Journal of Agronomy</i> , 2017, 88, 10-21.	1.9	63
20	Reviews and syntheses: An empirical spatiotemporal description of the global surfaceâ€™atmosphere carbon fluxes: opportunities and data limitations. <i>Biogeosciences</i> , 2017, 14, 3685-3703.	1.3	58
21	A backcast land use change model to generate past land use maps: application and validation at the Muskegon River watershed of Michigan, USA. <i>Journal of Land Use Science</i> , 2010, 5, 1-29.	1.0	43
22	Global Relationships between Cropland Intensification and Summer Temperature Extremes over the Last 50 Years. <i>Journal of Climate</i> , 2017, 30, 7505-7528.	1.2	43
23	The impact of conflict-driven cropland abandonment on food insecurity in South Sudan revealed using satellite remote sensing. <i>Nature Food</i> , 2021, 2, 990-996.	6.2	39
24	Using Backcast Land-Use Change and Groundwater Travel-Time Models to Generate Land-Use Legacy Maps for Watershed Management. <i>Ecology and Society</i> , 2007, 12, .	1.0	38
25	Dry season clouds and rainfall in northern Central America: Implications for the Mesoamerican Biological Corridor. <i>Global and Planetary Change</i> , 2006, 54, 150-162.	1.6	31
26	Observational estimates of radiative forcing due to land use change in southwest Australia. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	31
27	Crop harvests for direct food use insufficient to meet the UNâ€™s food security goal. <i>Nature Food</i> , 2022, 3, 367-374.	6.2	31
28	Coupling land use and groundwater models to map land use legacies: Assessment of model uncertainties relevant to land use planning. <i>Applied Geography</i> , 2012, 34, 356-370.	1.7	30
29	Sensitivity of global major crop yields to climate variables: A non-parametric elasticity analysis. <i>Science of the Total Environment</i> , 2020, 748, 141431.	3.9	25
30	Biogeography of Tropical Montane Cloud Forests. Part I: Remote Sensing of Cloud-Base Heights. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 960-975.	0.6	22
31	The Impact of Future Land Use Scenarios on Runoff Volumes in the Muskegon River Watershed. <i>Environmental Management</i> , 2010, 46, 351-366.	1.2	20
32	Importance of land use versus atmospheric information verified from cloud simulations from a frontier region in Costa Rica. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	11
33	Roles of atmospheric and land surface data in dynamic regional downscaling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
34	Land use leverage points to reduce GHG emissions in U.S. agricultural supply chains. <i>Environmental Research Letters</i> , 2021, 16, 115002.	2.2	7
35	Cloud cover conditions and stability of the Western Ghats montane wet forests. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	5
36	Should Gene Editing Be Used to Develop Crops for Continuous-Living-Cover Agriculture? A Multi-Sector Stakeholder Assessment Using a Cooperative Governance Approach. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 843093.	2.0	4

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37	Dry season precipitation over the Mesoamerican Biological Corridor is more sensitive to deforestation than to greenhouse gas driven climate change. <i>Climatic Change</i> , 2013, 119, 775-783.	1.7	3
38	Regionalizing crop types to enhance global ecosystem modelling of maize production. <i>Environmental Research Letters</i> , 0, , .	2.2	0