

Mauro Sulis

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,799
citations

361413
20
h-index

414414
32
g-index

46
all docs

46
docs citations

46
times ranked

2247
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An overview of current applications, challenges, and future trends in distributed process-based models in hydrology. Journal of Hydrology, 2016, 537, 45-60. | 5.4 | 349 |
| 2 | Surfaceâ€‘subsurface model intercomparison: A first set of benchmark results to diagnose integrated hydrology and feedbacks. Water Resources Research, 2014, 50, 1531-1549. | 4.2 | 222 |
| 3 | A Scale-Consistent Terrestrial Systems Modeling Platform Based on COSMO, CLM, and ParFlow. Monthly Weather Review, 2014, 142, 3466-3483. | 1.4 | 140 |
| 4 | The integrated hydrologic model intercomparison project, <scp>IHâ€‘MIP2</scp>: A second set of benchmark results to diagnose integrated hydrology and feedbacks. Water Resources Research, 2017, 53, 867-890. | 4.2 | 113 |
| 5 | A comparison of two physics-based numerical models for simulating surface waterâ€‘groundwater interactions. Advances in Water Resources, 2010, 33, 456-467. | 3.8 | 108 |
| 6 | Assessment of climate change impacts at the catchment scale with a detailed hydrological model of surfaceâ€‘subsurface interactions and comparison with a land surface model. Water Resources Research, 2011, 47, . | 4.2 | 85 |
| 7 | Monitoring and Modeling the Terrestrial System from Pores to Catchments: The Transregional Collaborative Research Center on Patterns in the Soilâ€‘Vegetationâ€‘Atmosphere System. Bulletin of the American Meteorological Society, 2015, 96, 1765-1787. | 3.3 | 80 |
| 8 | Studying the influence of groundwater representations on land surfaceâ€‘atmosphere feedbacks during the European heat wave in 2003. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,301. | 3.3 | 74 |
| 9 | Hydrologic response to multimodel climate output using a physically based model of groundwater/surface water interactions. Water Resources Research, 2012, 48, . | 4.2 | 62 |
| 10 | Global Groundwater Modeling and Monitoring: Opportunities and Challenges. Water Resources Research, 2021, 57, . | 4.2 | 62 |
| 11 | Implementation and scaling of the fully coupled Terrestrial Systems Modeling Platform (TerrSysMP) Tj ETQq1 1 0.784314 rgBT /Overlo Geoscientific Model Development, 2014, 7, 2531-2543. | 3.6 | 54 |
| 12 | Impact of grid resolution on the integrated and distributed response of a coupled surfaceâ€‘subsurface hydrological model for the des Anglais catchment, Quebec. Hydrological Processes, 2011, 25, 1853-1865. | 2.6 | 50 |
| 13 | Human Water Use Impacts on the Strength of the Continental Sink for Atmospheric Water. Geophysical Research Letters, 2018, 45, 4068-4076. | 4.0 | 36 |
| 14 | Impacts of grid resolution on surface energy fluxes simulated with an integrated surface-groundwater flow model. Hydrology and Earth System Sciences, 2015, 19, 4317-4326. | 4.9 | 35 |
| 15 | The subsurfaceâ€‘land surfaceâ€‘atmosphere connection under convective conditions. Advances in Water Resources, 2015, 83, 240-249. | 3.8 | 32 |
| 16 | Comparison of two modeling approaches for groundwaterâ€‘surface water interactions. Hydrological Processes, 2013, 27, 2258-2270. | 2.6 | 29 |
| 17 | Incorporating a root water uptake model based on the hydraulic architecture approach in terrestrial systems simulations. Agricultural and Forest Meteorology, 2019, 269-270, 28-45. | 4.8 | 28 |
| 18 | Coupling Groundwater, Vegetation, and Atmospheric Processes: A Comparison of Two Integrated Models. Journal of Hydrometeorology, 2017, 18, 1489-1511. | 1.9 | 26 |

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|----|--|------|-----------|
| 19 | Evaluating the Influence of Plant-Specific Physiological Parameterizations on the Partitioning of Land Surface Energy Fluxes. <i>Journal of Hydrometeorology</i> , 2015, 16, 517-533. | 1.9 | 24 |
| 20 | The concept of dualâ€‘boundary forcing in land surfaceâ€‘subsurface interactions of the terrestrial hydrologic and energy cycles. <i>Water Resources Research</i> , 2014, 50, 8531-8548. | 4.2 | 22 |
| 21 | The role of aerodynamic resistance in thermal remote sensing-based evapotranspiration models. <i>Remote Sensing of Environment</i> , 2021, 264, 112602. | 11.0 | 22 |
| 22 | Effects of horizontal grid resolution on evapotranspiration partitioning using TerrSysMP. <i>Journal of Hydrology</i> , 2018, 557, 910-915. | 5.4 | 20 |
| 23 | Connection Between Root Zone Soil Moisture and Surface Energy Flux Partitioning Using Modeling, Observations, and Data Assimilation for a Temperate Grassland Site in Germany. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2839-2862. | 3.0 | 20 |
| 24 | Quantifying the Impact of Subsurfaceâ€‘Land Surface Physical Processes on the Predictive Skill of Subseasonal Mesoscale Atmospheric Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9131-9151. | 3.3 | 18 |
| 25 | Introduction of an Experimental Terrestrial Forecasting/Monitoring System at Regional to Continental Scales Based on the Terrestrial Systems Modeling Platform (v1.1.0). <i>Water (Switzerland)</i> , 2018, 10, 1697. | 2.7 | 17 |
| 26 | Conjunctive Use of a Hydrological Model and a Multicriteria Decision Support System for a Case Study on the Caia Catchment, Portugal. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 141-152. | 1.9 | 14 |
| 27 | Analysis of coupling errors in a physically-based integrated surface waterâ€‘groundwater model. <i>Advances in Water Resources</i> , 2012, 49, 86-96. | 3.8 | 14 |
| 28 | Evaluating the dualâ€‘boundary forcing concept in subsurfaceâ€‘land surface interactions of the hydrological cycle. <i>Hydrological Processes</i> , 2016, 30, 1563-1573. | 2.6 | 12 |
| 29 | Insights Into the Aerodynamic Versus Radiometric Surface Temperature Debate in Thermalâ€‘Based Evaporation Modeling. <i>Geophysical Research Letters</i> , 2022, 49, . | 4.0 | 11 |
| 30 | An assessment of recharge estimates from stream and well data and from a coupled surface-water/groundwater model for the des Anglais catchment, Quebec (Canada). <i>Hydrogeology Journal</i> , 2015, 23, 1731-1743. | 2.1 | 10 |
| 31 | Potential Added Value of Incorporating Human Water Use on the Simulation of Evapotranspiration and Precipitation in a Continentalâ€‘Scale Bedrockâ€‘toâ€‘Atmosphere Modeling System: A Validation Study Considering Observational Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1959-1980. | 3.8 | 3 |
| 32 | Downwelling longwave radiation and sensible heat flux observations are critical for surface temperature and emissivity estimation from flux tower data. <i>Scientific Reports</i> , 2022, 12, . | 3.3 | 3 |
| 33 | Advances in Catchment Science through Integrated Hydrological Modelling and Monitoring. <i>Water (Switzerland)</i> , 2021, 13, 1013. | 2.7 | 0 |