

# Igor Gejadze

## List of Publications by Year in descending order

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14  
papers

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citations

1478505

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1058476

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docs citations

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times ranked

257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discharge Estimation in Ungauged Basins Through Variational Data Assimilation: The Potential of the SWOT Mission. <i>Water Resources Research</i> , 2018, 54, 2405-2423.	4.2	63
2	River discharge estimation from synthetic SWOT-type observations using variational data assimilation and the full Saint-Venant hydraulic model. <i>Journal of Hydrology</i> , 2018, 559, 638-647.	5.4	59
3	On optimal solution error covariances in variational data assimilation problems. <i>Journal of Computational Physics</i> , 2010, 229, 2159-2178.	3.8	44
4	Computation of the analysis error covariance in variational data assimilation problems with nonlinear dynamics. <i>Journal of Computational Physics</i> , 2011, 230, 7923-7943.	3.8	29
5	Discharge estimation under uncertainty using variational methods with application to the full Saint-Venant hydraulic network model. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 405-430.	1.6	22
6	On gauss-verifiability of optimal solutions in variational data assimilation problems with nonlinear dynamics. <i>Journal of Computational Physics</i> , 2015, 280, 439-456.	3.8	7
7	Design of the control set in the framework of variational data assimilation. <i>Journal of Computational Physics</i> , 2016, 325, 358-379.	3.8	6
8	Uncertainty Quantification for River Flow Simulation Applied to a Real Test Case: The Garonne Valley. <i>Springer Water</i> , 2018, , 169-187.	0.3	6
9	Implicit treatment of model error using inflated observation error covariance. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2496-2508.	2.7	4
10	A new robust discharge estimation method applied in the context of SWOT satellite data processing. <i>Journal of Hydrology</i> , 2022, 610, 127909.	5.4	3
11	Variational data assimilation to improve subsurface drainage model parameters. <i>Journal of Hydrology</i> , 2022, 610, 128006.	5.4	3
12	Optimal solution error quantification in variational data assimilation involving imperfect models. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 276-290.	1.6	2
13	On the use of derivatives in the polynomial chaos based global sensitivity and uncertainty analysis applied to the distributed parameter models. <i>Journal of Computational Physics</i> , 2019, 381, 218-245.	3.8	2
14	River discharge estimation under uncertainty from synthetic SWOT-type observations using variational data assimilation. <i>Houille Blanche</i> , 2018, 104, 84-89.	0.3	1