

George Galanis

List of Publications by Year in descending order

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53
papers

1,233
citations

430442

18
h-index

360668

35
g-index

54
all docs

54
docs citations

54
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar and photovoltaic forecasting through post-processing of the Global Environmental Multiscale numerical weather prediction model. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 284-296.	4.4	176
2	Multi-criteria site selection for offshore renewable energy platforms. <i>Renewable Energy</i> , 2016, 87, 791-806.	4.3	100
3	Assessing the European offshore wind and wave energy resource for combined exploitation. <i>Renewable Energy</i> , 2017, 101, 244-264.	4.3	98
4	Wind power prediction based on numerical and statistical models. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 112, 25-38.	1.7	96
5	Applications of Kalman filters based on non-linear functions to numerical weather predictions. <i>Annales Geophysicae</i> , 2006, 24, 2451-2460.	0.6	86
6	A one-dimensional Kalman filter for the correction of near surface temperature forecasts. <i>Meteorological Applications</i> , 2002, 9, 437-441.	0.9	61
7	10-year high resolution study of wind, sea waves and wave energy assessment in the Greek offshore areas. <i>Renewable Energy</i> , 2016, 90, 399-419.	4.3	55
8	Wave energy potential in the Eastern Mediterranean Levantine Basin. An integrated 10-year study. <i>Renewable Energy</i> , 2014, 69, 311-323.	4.3	53
9	Set valued functions in Fréchet spaces: Continuity, Hukuhara differentiability and applications to set differential equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 61, 559-575.	0.6	39
10	A new methodology for the extension of the impact of data assimilation on ocean wave prediction. <i>Ocean Dynamics</i> , 2009, 59, 523-535.	0.9	35
11	Solar forecasting with hourly updated numerical weather prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111768.	8.2	35
12	Wave height characteristics in the Mediterranean Sea by means of numerical modeling, satellite data, statistical and geometrical techniques. <i>Marine Geophysical Researches</i> , 2012, 33, 1-15.	0.5	34
13	A hybrid Bayesian Kalman filter and applications to numerical wind speed modeling. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 167, 1-22.	1.7	26
14	A statistical methodology for the estimation of extreme wave conditions for offshore renewable applications. <i>Renewable Energy</i> , 2015, 80, 205-218.	4.3	25
15	Combination of statistical Kalman filters and data assimilation for improving ocean waves analysis and forecasting. <i>Ocean Modelling</i> , 2012, 59-60, 11-23.	1.0	23
16	Wind gust estimation by combining a numerical weather prediction model and statistical post-processing. <i>Energy Procedia</i> , 2017, 125, 190-198.	1.8	23
17	Statistical post processes for the improvement of the results of numerical wave prediction models. A combination of Kolmogorov-Zurbenko and Kalman filters. <i>Journal of Operational Oceanography</i> , 2011, 4, 23-31.	0.6	21
18	Extreme wind events in a complex maritime environment: Ways of quantification. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 149, 89-101.	1.7	20

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19	Second order tangent bundles of infinite dimensional manifolds. <i>Journal of Geometry and Physics</i> , 2004, 52, 127-136.	0.7	17
20	Wave height characteristics in the north Atlantic ocean: a new approach based on statistical and geometrical techniques. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 83-103.	1.9	17
21	Development of a High-Resolution Wind Forecast System Based on the WRF Model and a Hybrid Kalman-Bayesian Filter. <i>Energies</i> , 2019, 12, 3050.	1.6	17
22	Assimilation of radar altimeter data in numerical wave models: an impact study in two different wave climate regions. <i>Annales Geophysicae</i> , 2007, 25, 581-595.	0.6	16
23	Low wind speed events: persistence and frequency. <i>Wind Energy</i> , 2017, 20, 1033-1047.	1.9	16
24	Combined Kalman Filter and Universal Kriging to Improve Storm Wind Speed Predictions for the Northeastern United States. <i>Weather and Forecasting</i> , 2019, 34, 587-601.	0.5	15
25	An Integrated Energy Simulation Model for Buildings. <i>Energies</i> , 2020, 13, 1170.	1.6	14
26	Positive, unbounded and monotone solutions of the singular second Painlevé equation on the half-line. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2004, 57, 401-419.	0.6	13
27	A new methodology for using buoy measurements in sea wave data assimilation. <i>Ocean Dynamics</i> , 2010, 60, 1205-1218.	0.9	13
28	Projective limits of Banach-Lie groups. <i>Periodica Mathematica Hungarica</i> , 1996, 32, 179-191.	0.5	11
29	Statistical methods for the prediction of night-time cooling and minimum temperature. <i>Meteorological Applications</i> , 2006, 13, 169.	0.9	10
30	Differentiability on semilinear spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009, 71, 4732-4738.	0.6	7
31	The impact of sea surface currents in wave power potential modeling. <i>Ocean Dynamics</i> , 2015, 65, 1547-1565.	0.9	7
32	Isomorphism classes for Banach vector bundle structures of second tangents. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2006, 141, 489.	0.3	6
33	Infinite-dimensional second order ordinary differential equations via. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2007, 67, 2829-2838.	0.6	6
34	On a Type of Fréchet Principal Bundles over Banach Bases. <i>Periodica Mathematica Hungarica</i> , 1997, 35, 15-30.	0.5	5
35	Bundles of acceleration on Banach manifolds. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 63, e465-e471.	0.6	4
36	A new Kalman filter based on Information Geometry techniques for optimizing numerical environmental simulations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 1423-1435.	1.9	4

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37	Model aggregation using optimal transport and applications in wind speed forecasting. <i>Environmetrics</i> , 2018, 29, e2531.	0.6	4
38	A Mediterranean cold front identification scheme combining wind and thermal criteria. <i>International Journal of Climatology</i> , 2021, 41, 6497-6510.	1.5	4
39	Classical and Quasi-Newton Methods for a Meteorological Parameters Prediction Boundary Value Problem. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 2683-2693.	0.7	4
40	A Generalized Frame Bundle for Certain Fr�chet Vector Bundles and Linear Connections. <i>Tokyo Journal of Mathematics</i> , 1997, 20, .	0.2	4
41	A generalized second-order frame bundle for Fr�chet manifolds. <i>Journal of Geometry and Physics</i> , 2005, 55, 291-305.	0.7	3
42	A coupled modeling study of mechanical and thermodynamical air-ocean interface processes under sea storm conditions. <i>Dynamics of Atmospheres and Oceans</i> , 2020, 91, 101140.	0.7	3
43	Information geometry applications for optimizing numerical simulations. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 994-997.	1.2	2
44	Periodic value problems of differential systemson infinite-dimensional spaces and applications to differential geometry. <i>Computers and Mathematics With Applications</i> , 2004, 47, 1809-1815.	1.4	1
45	Wave power estimation by means of spectral wave models and satellite records. <i>Journal of Operational Oceanography</i> , 2017, 10, 93-113.	0.6	1
46	Operational atmospheric and wave modelling in the California�s coastline and offshore area with applications to wave energy monitoring and assessment. <i>Journal of Operational Oceanography</i> , 2017, 10, 135-153.	0.6	1
47	A two-step hybrid system towards optimized wave height forecasts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 753-766.	1.9	1
48	A methodology for optimizing probabilistic wind power forecasting. <i>Advances in Geosciences</i> , 0, 45, 289-294.	12.0	1
49	Universal connections in Fr�chet principal bundles. <i>Periodica Mathematica Hungarica</i> , 2007, 54, 1-13.	0.5	0
50	On the numerical solution of a boundary value problem which rises in the prediction of meteorological parameters. , 2012, , .		0
51	Optimization of numerical weather/wave prediction models based on information geometry and computational techniques. , 2014, , .		0
52	New efficient optimizing techniques for Kalman filters and numerical weather prediction models. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
53	An Integrated Weather and Sea State Forecasting System for the Arabian Peninsula (WASSF). <i>Springer Proceedings in Complexity</i> , 2014, , 173-177.	0.2	0