

# Egor Illarionov

## List of Publications by Year in descending order

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18  
papers

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citations

1477746

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19  
docs citations

19  
times ranked

128  
citing authors

#	ARTICLE	IF	CITATIONS
1	End-to-end neural network approach to 3D reservoir simulation and adaptation. Journal of Petroleum Science and Engineering, 2022, 208, 109332.	2.1	10
2	Parametrization of Sunspot Groups Based on Machine-Learning Approach. Solar Physics, 2022, 297, 1.	1.0	2
3	Reconstruction of the Solar Activity from the Catalogs of the Zurich Observatory. Solar Physics, 2022, 297, .	1.0	2
4	Mean Square Geodesic Deviation in the Zeldovich Problem on Light Propagation in a Universe with Inhomogeneities. Astronomy Reports, 2021, 65, 362-369.	0.2	1
5	The Observational Uncertainty of Coronal Hole Boundaries in Automated Detection Schemes. Astrophysical Journal, 2021, 913, 28.	1.6	16
6	Compression of Solar Spectroscopic Observations: a Case Study of Mg II k Spectral Line Profiles Observed by NASA's IRIS Satellite. , 2021, , .		3
7	Finite memory time and anisotropy effects for initial magnetic energy growth in random flow of conducting media. Physical Review E, 2021, 104, 015214.	0.8	4
8	Prediction of Solar Flares and Background Fluxes of X-Ray Radiation According to Synoptic Ground-Based Observations Using Machine-Learning Models. Cosmic Research, 2020, 58, 444-449.	0.2	2
9	Machine-learning Approach to Identification of Coronal Holes in Solar Disk Images and Synoptic Maps. Astrophysical Journal, 2020, 903, 115.	1.6	6
10	Magnetic helicity and higher helicity invariants as constraints for dynamo action. Fluid Dynamics Research, 2018, 50, 011407.	0.6	6
11	Reconstruction of Centennial Series of Solar Activity. Geomagnetism and Aeronomy, 2018, 58, 1021-1028.	0.2	1
12	Segmentation of coronal holes in solar disc images with a convolutional neural network. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5014-5021.	1.6	27
13	Higher helicity invariants and solar dynamo. Geomagnetism and Aeronomy, 2017, 57, 113-118.	0.2	4
14	Asymmetry in the form of solar spots. Geomagnetism and Aeronomy, 2016, 56, 1031-1035.	0.2	2
15	Intermittency and random matrices. Journal of Plasma Physics, 2015, 81, .	0.7	5
16	The Properties of the Tilts of Bipolar Solar Regions. Solar Physics, 2015, 290, 351-361.	1.0	12
17	A new dynamo pattern revealed by the tilt angle of bipolar sunspot groups. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2975-2984.	1.6	41
18	Cluster analysis for pattern recognition in solar butterfly diagrams. Astronomische Nachrichten, 2011, 332, 590-596.	0.6	9