

Natalya Demina

List of Publications by Year in descending order

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82
papers

239
citations

933447

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all docs

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docs citations

82
times ranked

27
citing authors

#	ARTICLE	IF	CITATIONS
1	The Use of the Synthetic Method of Harmonic Analysis for Investigating the Structure of Space Natural Bodies. Studies in Systems, Decision and Control, 2021, , 215-224.	1.0	0
2	Creation of a Simulation Model of Spacecraftsâ€™ Navigation Referencing to the Digital Map of the Moon. Studies in Systems, Decision and Control, 2021, , 193-204.	1.0	2
3	The Use of Photometric Structural Analysis and Digitized Positional Observation Data to Study Small Celestial Bodies. Astronomy Reports, 2021, 65, 427-434.	0.9	1
4	The Physical Surface of the Moon: A Digital Model Based on Satellite Altimetry. Astronomy Reports, 2021, 65, 435-444.	0.9	4
5	Analysis of Photoelectric Occultations and Development of a Digital Model of the Lunar Libration Zone. Astronomy Reports, 2021, 65, 580-587.	0.9	0
6	The Study of Geodynamic Parameters on the Basis of Adaptive Regression Modeling. Studies in Systems, Decision and Control, 2021, , 225-236.	1.0	0
7	The Digital Fractal Model of the Earth Based on Space Measurements Data. , 2021, , .		0
8	The Use of Deterministic Mathematical Modeling for the Prediction of Dynamic Geophysical Processes. , 2021, , .		0
9	Automated Complex for the Study of Digital Model of Titan. , 2021, , .		0
10	The Earth Remote Sensing Method via Quantum and Optical Systems. , 2021, , .		0
11	Meteorite hazard model for a space mission to Mars. Journal of Physics: Conference Series, 2021, 2103, 012031.	0.4	1
12	Studying the fractal properties of Ceres. Journal of Physics: Conference Series, 2021, 2103, 012035.	0.4	1
13	The analysis of Titanâ€™s physical surface using multifractal geometry methods. Journal of Physics: Conference Series, 2021, 2103, 012017.	0.4	0
14	Analysis of modern observations of meteor showers based on PTM methods. Journal of Physics: Conference Series, 2021, 2103, 012024.	0.4	0
15	The search for statistical patterns of pathological activity in human EEG signals in focal epilepsy. Journal of Physics: Conference Series, 2021, 2103, 012044.	0.4	1
16	Structural analysis of the comet 45P/Honda based on isophote modeling. Journal of Physics: Conference Series, 2021, 2103, 012022.	0.4	0
17	The Study of Dynamic Parameters of Corporate Graphic Stations Using Methods of Adaptive Regression Multi-Parameter Modeling. , 2020, , .		0
18	The creation of a regression model of the Earthâ€™s pole motion with a feature of dynamic prediction. Journal of Physics: Conference Series, 2020, 1697, 012029.	0.4	0

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19	The study of the influence of interstellar extinction laws on the parameters of photometric system using astrophysical observations taken at EAO. Journal of Physics: Conference Series, 2020, 1697, 012032.	0.4	0
20	The development of projective metric method for analyzing star positions. Journal of Physics: Conference Series, 2020, 1697, 012033.	0.4	1
21	Development of Methods for Navigational Referencing of Circumlunar Spacecrafts to the Selenocentric Dynamic Coordinate System. Astronomy Reports, 2020, 64, 795-803.	0.9	12
22	Creation of a theoretical simulation model of orbital referencing of lunar objectsâ€™ optical observations taken by space lunar satellite to the selenocentric coordinate system. Journal of Physics: Conference Series, 2020, 1697, 012016.	0.4	2
23	The study of models of space selenophysics using multi-parameter analysis and fractal geometry. Journal of Physics: Conference Series, 2020, 1697, 012024.	0.4	3
24	The Study of Selenophysical Parameters with the Use of the Noise-Immune Method of Robust Estimates. Uchenye Zapiski Kazanskogo Universiteta Seriya Fiziko-Matematicheskie Nauki, 2020, 162, 481-491.	0.0	0
25	The Use of Multi-Parameter Analysis and Fractal Geometry for Investigating the Structure of the Lunar Surface. Uchenye Zapiski Kazanskogo Universiteta Seriya Fiziko-Matematicheskie Nauki, 2020, 162, 223-236.	0.0	5
26	THE DEVELOPMENT OF A SELENOCENTRIC SATELLITE SIMULATION NAVIGATION SYSTEM BY MEANS OF THE LUNAR SURFACE MODEL. , 2020, , .		0
27	THE CREATION OF DIGITAL SATELLITE SELENOCENTRIC MAPS USING FRACTAL GEOMETRY AND MULTI-PARAMETER HARMONIC MODELING. , 2020, , .		0
28	Analysis of the surfaces and gravitational fields of planets using robust modeling methods. Journal of Physics: Conference Series, 2019, 1400, 022019.	0.4	6
29	ANALYSIS OF THE GEODYNAMIC ACTIVITY NEAR LARGE RESERVOIRS. , 2019, , .		0
30	THE ROBUST METHOD FOR SELENOPHYSICAL PARAMETERS ESTIMATIONS. , 2019, , .		0
31	THE GRAVITATIONAL ANOMALIES ACCOUNTING METHOD AT GEODETIC OBSERVATIONS. , 2019, , .		0
32	THE MULTIFACTORIAL SIMULATION OF ASSESSING THE ACCURACY OF MODERN STAR CATALOGUES. , 2019, , .		0
33	THE DEVELOPMENT OF THE GEODETIC EDUCATION AND GEODETIC STUDIES IN KAZAN. , 2019, , .		0
34	Non-stationarity and cross-correlation effects in the MHD solar activity. Advances in Space Research, 2018, 61, 639-644.	2.6	11
35	Analysis of topocentric and gravimetric data from modern space missions. Journal of Physics: Conference Series, 2018, 1135, 012002.	0.4	7
36	Studies of Modern Star Catalogs Based on Photoelectric Observations of Lunar Occultations of Stars. Astronomy Reports, 2018, 62, 1042-1049.	0.9	9

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37	Creation of a Global Selenocentric Coordinate Reference Frame. Astronomy Reports, 2018, 62, 1016-1020.	0.9	17
38	Analysis of the terrestrial global digital model using fractal geometry and harmonic expansion into spherical functions. Journal of Physics: Conference Series, 2018, 1135, 012003.	0.4	6
39	Construction of simulation models of lunar observations. Journal of Physics: Conference Series, 2018, 1135, 012001.	0.4	2
40	Modeling of the physical selenocentric surface using modern satellite observations and harmonic analysis methods. Journal of Physics: Conference Series, 2018, 1038, 012003.	0.4	14
41	Use of multiparametric analysis of meteor showers for their parental bodiesâ€™ genetic parameters determination. Journal of Physics: Conference Series, 2018, 1038, 012019.	0.4	0
42	The fractal analysis of the topography and gravitational field of Venus. Journal of Physics: Conference Series, 2018, 1038, 012020.	0.4	7
43	Analysis of the topography and gravitational field of Venus using space missions data and fractal geometry. , 2018, , .		0
44	Analysis of lunar macromodels using â€œClementineâ€, â€œKaguyaâ€, and â€œLROâ€ space missions data. , 2018, , .		0
45	Analysis of the selenophysics parameters using the space missions data. , 2018, , .		0
46	The study of the space topographic models using fractal methods and harmonic multi-parametric analysis. , 2018, , .		0
47	ANALYSIS MHD SOLAR ACTIVITY USING ROBUST METHODS. , 2018, , .		0
48	THE METHOD OF REDUCING DISSIMILAR SPACE IMAGES TO THE SINGLE REFERENCE SYSTEM. , 2018, , .		0
49	MAKING THE MULTICOMPONENT MODEL OF EARTH LATITUDE ALTERNATION USING SOFTWARE PACKAGE ASRM-2017. , 2018, , .		0
50	USING ROBUST REGRESSION METHODS FOR IMPROVE THE ACCURACY OF THE ESTIMATING OF OBSERVATIONAL MODELS PARAMETERS. , 2018, , .		0
51	ANALYSIS OF THE TERRESTRIAL POLE COORDINATES USING REGRESSION DYNAMIC MODELING. , 2018, , .		0
52	THE STUDY OF FULL FLOW STATISTICAL FEATURES OF THE X-RAYS CYGNUS X-1 BINARY SYSTEM. , 2018, , .		0
53	MAKING THE SOFTWARE PACKAGE FOR ANALYSIS THE STATISTICAL MODELS OF SPACE OBSERVATIONS. , 2018, , .		0
54	ANALYSIS GPS AND DORIS GEOCENTER OSCILLATION MEASUREMENTS USING SOFTWARE PACKAGE ASDRM. , 2018, , .		0

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55	USING THE AUTOMATED SYSTEM ROBUST MODELING FOR STUDY THE SURFACES AND GRAVITY FIELDS PLANETS. , 2018, , .		0
56	ANALYSIS LUNAR MAPS USING MULTIFRACTAL METHOD. , 2018, , .		0
57	DEVELOPMENT OF NEW METHODS OF AUTO- AND CROSS-CORRELATION ANALYSIS OF QUASI-STAR OBJECTS X-RAYS INTENSITY. , 2018, , .		0
58	DEVELOPMENT OF THE SOFTWARE PACKAGE INTERACTIVE AUTOMATED SYSTEM FOR OPTIMAL REGRESSIONS MODELING. , 2018, , .		0
59	USING ADAPTIVE REGRESSIONS FOR ANALYSIS OF SERVER TIME PARAMETERS. , 2018, , .		0
60	Analysis of dynamical and quasidynamical space coordinate systems. , 2017, , .		2
61	Construction of the navigational reference network on the surface of the Moon. , 2017, , .		0
62	Center of space education, science and technologies in EAO. , 2017, , .		0
63	The fractal analysis of the gravitational field and topography of the Mars. Journal of Physics: Conference Series, 2017, 929, 012002.	0.4	11
64	The method for celestial bodies center of mass position relative to their figures determination on the basis of harmonic analysis of the expansion in spherical functions in order to refine the physical libration parameters. Journal of Physics: Conference Series, 2017, 929, 012013.	0.4	3
65	The fractal method application for space maps analysis. , 2017, , .		1
66	THE METHOD OF ASTRONOMICAL REFRACTION ANOMALIES ANALYSIS BASED ON AEROLOGICAL DATA. , 2017, , .		0
67	THE METHOD OF MOONQUAKES SELENOPHYSICAL PARAMETERS ANALYSIS. , 2017, , .		0
68	THE STUDY OF THE LUNAR MACRO-FIGURE MODELS USING MULTI-PARAMETRIC HARMONIC ANALYSIS AND EXPANSION IN SPHERICAL FUNCTIONS. , 2017, , .		0
69	ANALYSIS OF 430322 LUNAR OCCULTATION. , 2017, , .		0
70	DEVELOPMENT OF SOFTWARE AND ANALYTICAL COMPLEX FOR BRAIN ACTIVITY MONITORING DURING SPACE FLIGHT. , 2017, , .		0
71	MULTI-PARAMETRIC ANALYSIS OF THE LUNAR INTERNAL STRUCTURE BASED ON SPACE DATA. , 2017, , .		0
72	Cross MFA analysis in studying the obsessive-compulsive disorder. Journal of Physics: Conference Series, 2016, 741, 012073.	0.4	7

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73	Making dynamical reference lunar system. , 2016, , .		0
74	Analysis of the Lyridsâ€™ meteor stream structure for long timeslots. Advances in Space Research, 2016, 58, 541-544.	2.6	14
75	Selenocentric reference coordinates net in the dynamic system. Journal of Physics: Conference Series, 2015, 661, 012014.	0.4	12
76	Synchronization of EEG activity in patients with bipolar disorder. Journal of Physics: Conference Series, 2015, 661, 012022.	0.4	0
77	Lorentzianâ€™ analysis of the accuracy of modern catalogues of stellar positions. Journal of Physics: Conference Series, 2015, 661, 012015.	0.4	4
78	Asteroid and comet hazard: Identification problem of observed space objects with the parental bodies. Advances in Space Research, 2014, 54, 2415-2418.	2.6	22
79	Use of Cross-Correlation Analysis of EEG Signals for Detecting Risk Level for Development of Schizophrenia. Bio-Medical Engineering, 2013, 47, 153-156.	0.5	22
80	Analysis of data of â€™Clementineâ€™ and â€™KAGUYAâ€™ missions and â€™ULCNâ€™ and â€™KSC-1162â€™ catalogues. Advances in Space Research, 2012, 50, 1564-1569.	2.6	29
81	TEACHING COURSES ON SPACE GEODESY, ASTRONOMY, AND NATURAL SCIENCE CONCEPTIONS AT KAZAN FEDERAL UNIVERSITY. , 2011, , .		0
82	SCIENTIFIC AND EDUCATIONAL CENTER OF SPACE RESEARCHES AND TECHNOLOGIES IN KAZAN FEDERAL UNIVERSITY. , 2011, , .		0