

Konstantinos Varotsos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1060303/publications.pdf>

Version: 2024-02-01

308
papers

8,985
citations

17405

63
h-index

58464

82
g-index

346
all docs

346
docs citations

346
times ranked

3227
citing authors

#	ARTICLE	IF	CITATIONS
1	A new method of nowcasting extreme cosmic ray events. Remote Sensing Letters, 2023, 14, 576-584.	0.6	11
2	Capabilities on Remote Microwave Technologies to Assess the State of Water Systems. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	9
3	Scaling Behavior of Peat Properties during the Holocene: A Case Study from Central European Russia. Land, 2022, 11, 862.	1.2	7
4	On the effects of aviation on carbon-methane cycles and climate change during the period 2015-2100. Atmospheric Pollution Research, 2021, 12, 184-194.	1.8	16
5	Optical Spectral Tools for Diagnosing Water Media Quality: A Case Study on the Angara/Yenisey River System in the Siberian Region. Land, 2021, 10, 342.	1.2	16
6	Editorial Sir John Houghton. Remote Sensing Letters, 2021, 12, 364-376.	0.6	9
7	The Signature of the Coronavirus Lockdown in Air Pollution in Greece. Water, Air, and Soil Pollution, 2021, 232, 119.	1.1	27
8	Diagnostic model for the society safety under COVID-19 pandemic conditions. Safety Science, 2021, 136, 105164.	2.6	25
9	Operational Diagnosis of Arctic Waters with Instrumental Technology and Information Modeling. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	15
10	Nowcasting of air pollution episodes in megacities: A case study for Athens, Greece. Atmospheric Pollution Research, 2021, 12, 101099.	1.8	17
11	Air Quality over China. Remote Sensing, 2021, 13, 3542.	1.8	8
12	COVID-19 pandemic decision support system for a population defense strategy and vaccination effectiveness. Safety Science, 2021, 142, 105370.	2.6	18
13	Assessment of Siberian Permafrost in the Climate Change Regime. , 2021, , .		0
14	On the Contribution of Remote Sensing to the Investigation of the Effects of UV-B on Mechanisms of Ecology, Biodiversity, and Conservation. , 2021, , .		0
15	A new model for the spread of COVID-19 and the improvement of safety. Safety Science, 2020, 132, 104962.	2.6	52
16	A Novel Approach to Monitoring the Quality of Lakes Water by Optical and Modeling Tools: Lake Sevan as a Case Study. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	31
17	A New Climate Nowcasting Tool Based on Paleoclimatic Data. Sustainability, 2020, 12, 5546.	1.6	13
18	Synergy of Active and Passive Remote Sensing Data for Effective Mapping of Oil Palm Plantation in Malaysia. Forests, 2020, 11, 858.	0.9	17

#	ARTICLE	IF	CITATIONS
19	Editorial: A new start with motto "festina lente". Remote Sensing Letters, 2020, 11, 609-610.	0.6	1
20	Microwave Remote Sensing Tools in Environmental Science. , 2020, , .		12
21	Remote Sensing Letters contribution to the success of the Sustainable Development Goals - UN 2030 agenda. Remote Sensing Letters, 2020, 11, 715-719.	0.6	31
22	On the Recovery of the Water Balance. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	7
23	Paleoecological and recent data show a steady temporal evolution of carbon dioxide and temperature. Atmospheric Pollution Research, 2020, 11, 714-722.	1.8	22
24	A New Passive Microwave Tool for Operational Forest Fires Detection: A Case Study of Siberia in 2019. Remote Sensing, 2020, 12, 835.	1.8	23
25	Remote Sensing and Data Processing Algorithms. , 2020, , 45-97.		0
26	Microwave Remote Sensing Monitoring and Global Climate Change Problems. , 2020, , 295-393.		0
27	Constructive Method of Vegetation Microwave Monitoring. , 2020, , 99-120.		0
28	Space Methods and Monitoring Tools for the Investigation of Aquatic Systems. , 2020, , 195-294.		0
29	Microwave Tools for Diagnosing Forest. , 2020, , 163-194.		0
30	Vegetation in Remote. , 2020, , 145-162.		0
31	Basic Concepts of Microwave Radiometry. , 2020, , 1-43.		0
32	Global Climate Monitoring with Microwave Measurements. , 2020, , 395-457.		0
33	New Optical Tools for Water Quality Diagnostics. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	29
34	A Fuzzy Model of Risk Assessment for Environmental Start-Up Projects in the Air Transport Sector. International Journal of Environmental Research and Public Health, 2019, 16, 3573.	1.2	49
35	On the link between atmospheric cloud parameters and cosmic rays. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 189, 98-106.	0.6	7
36	Monitoring and forecasting of tropical cyclones: A new information-modeling tool to reduce the risk. International Journal of Disaster Risk Reduction, 2019, 36, 101088.	1.8	19

#	ARTICLE	IF	CITATIONS
37	Modeling the state of marine ecosystems: A case study of the Okhotsk Sea. <i>Journal of Marine Systems</i> , 2019, 194, 1-10.	0.9	13
38	Future Temperature Extremes Will Be More Harmful: A New Critical Factor for Improved Forecasts. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4015.	1.2	12
39	Abrupt changes in global tropospheric temperature. <i>Atmospheric Research</i> , 2019, 217, 114-119.	1.8	10
40	Microwave polarization characteristics of snow at 6.9 and 18.7 GHz: Estimating the water content of the snow layers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 225, 219-226.	1.1	11
41	Has global warming already arrived?. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 182, 31-38.	0.6	15
42	The observational and empirical thermospheric CO ₂ and NO power do not exhibit power-law behavior; an indication of their reliability. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 168, 1-7.	0.6	6
43	The deterioration of materials as a result of air pollution as derived from satellite and ground based observations. <i>Atmospheric Environment</i> , 2018, 185, 91-99.	1.9	20
44	The Dependence of the Soil Microwave Attenuation on Frequency and Water Content in Different Types of Vegetation: an Empirical Model. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	17
45	Assessment of biophysical properties of Royal Belum tropical forest, Malaysia. <i>Singapore Journal of Tropical Geography</i> , 2018, 39, 90-106.	0.6	10
46	A sensitivity study of diffusional mass transfer of gases in tropical storm hydrometeors. <i>Theoretical and Applied Climatology</i> , 2018, 134, 1083-1100.	1.3	7
47	On the association between the recent episode of the quasi-biennial oscillation and the strong El Niño event. <i>Theoretical and Applied Climatology</i> , 2018, 133, 569-577.	1.3	15
48	Pollution of Arctic Waters Has Reached a Critical Point: an Innovative Approach to This Problem. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	35
49	The development of remote sensing in the last 40 years. <i>International Journal of Remote Sensing</i> , 2018, 39, 8387-8427.	1.3	37
50	The Earth as a planet. <i>International Journal of Remote Sensing</i> , 2018, 39, 5767-5769.	1.3	0
51	Anomalous mesospheric ozone variability is not a precursor to earthquakes: A case study in Greece. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 179, 181-184.	0.6	1
52	A New Monitoring System for the Surface Marine Anomalies. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	28
53	The global signature of the El Niño/La Niña Southern Oscillation. <i>International Journal of Remote Sensing</i> , 2018, 39, 5965-5977.	1.3	8
54	On the wrong inference of long-range correlations in climate data; the case of the solar and volcanic forcing over the Tropical Pacific. <i>Theoretical and Applied Climatology</i> , 2017, 128, 761-767.	1.3	2

#	ARTICLE	IF	CITATIONS
55	Simulation results from a coupled model of carbon dioxide and methane global cycles. <i>Ecological Modelling</i> , 2017, 359, 69-79.	1.2	42
56	On the temporal evolution of the tropical stratospheric ozone. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 157-158, 1-5.	0.6	2
57	A Modeling System for Monitoring Water Quality in Lagoons. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	11
58	Nature-society system survivability model: Simulations of the principal natural and anthropogenic processes. <i>Environmental Development</i> , 2017, 24, 170-178.	1.8	9
59	Impacts of climate warming on atmospheric phase transition mechanisms. <i>Theoretical and Applied Climatology</i> , 2017, 130, 1111-1122.	1.3	11
60	On the association of aerosol optical depth and total ozone fluctuations with recent earthquakes in Greece. <i>Acta Geophysica</i> , 2017, 65, 659-665.	1.0	12
61	Impacts of air pollution and climate on materials in Athens, Greece. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 439-448.	1.9	19
62	A new big data approach based on geocological information-modeling system. <i>Big Earth Data</i> , 2017, 1, 47-63.	2.0	36
63	The Earth's Population Can Reach 14 Billion in the 23rd Century without Significant Adverse Effects on Survivability. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 885.	1.2	32
64	Mission to Mars: Adaptive Identifier for the Solution of Inverse Optical Metrology Tasks. <i>Earth, Moon and Planets</i> , 2016, 118, 1-14.	0.3	5
65	Modelling the CO ₂ atmosphere-ocean flux in the upwelling zones using radiative transfer tools. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 150-151, 47-54.	0.6	36
66	On the progress of the 2015-2016 El Niño event. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2007-2011.	1.9	56
67	Climate scaling behaviour in the dynamics of the marine interstitial ciliate community. <i>Theoretical and Applied Climatology</i> , 2016, 125, 439-447.	1.3	13
68	Precursory signals of the major El Niño Southern Oscillation events. <i>Theoretical and Applied Climatology</i> , 2016, 124, 903-912.	1.3	21
69	Scaling regimes and linear/nonlinear responses of last millennium climate to volcanic and solar forcings. <i>Earth System Dynamics</i> , 2016, 7, 133-150.	2.7	40
70	Tempting long-memory in the historic surface ozone concentrations at Athens, Greece. <i>Atmospheric Pollution Research</i> , 2015, 6, 1055-1057.	1.8	5
71	On the scaling of the solar incident flux. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7301-7306.	1.9	23
72	Satellite Images for Monitoring Mangrove Cover Changes in a Fast Growing Economic Region in Southern Peninsular Malaysia. <i>Remote Sensing</i> , 2015, 7, 14360-14385.	1.8	95

#	ARTICLE	IF	CITATIONS
73	An assessment of the stray light in 25 years of Dobson total ozone data at Athens, Greece. Atmospheric Measurement Techniques, 2015, 8, 3037-3046.	1.2	7
74	New Ecoinformatics Tools in Environmental Science. , 2015, , .		65
75	Symmetric scaling properties in global surface air temperature anomalies. Theoretical and Applied Climatology, 2015, 121, 767-773.	1.3	6
76	Sharp rise in hurricane and cyclone count during the last century. Theoretical and Applied Climatology, 2015, 119, 629-638.	1.3	14
77	Modeling the carbon and nitrogen cycles. Frontiers in Environmental Science, 2014, 2, .	1.5	19
78	Mission to Mars. Reliable method for liquid solutions diagnostics. Frontiers in Environmental Science, 2014, 2, .	1.5	15
79	Evidence for two abrupt warming events of SST in the last century. Theoretical and Applied Climatology, 2014, 116, 51-60.	1.3	42
80	The local and regional atmospheric oxidants at Athens (Greece). Environmental Science and Pollution Research, 2014, 21, 4430-4440.	2.7	15
81	Signature of tropospheric ozone and nitrogen dioxide from space: A case study for Athens, Greece. Atmospheric Environment, 2014, 89, 721-730.	1.9	29
82	New spectral functions of the near-ground albedo derived from aircraft diffraction spectrometer observations. Atmospheric Chemistry and Physics, 2014, 14, 6953-6965.	1.9	34
83	1/f noise in the UV solar spectral irradiance. Theoretical and Applied Climatology, 2013, 111, 641-648.	1.3	21
84	On the 11 year solar cycle signature in global total ozone dynamics. Meteorological Applications, 2013, 20, 72-79.	0.9	31
85	Is there any long-term memory effect in the tropical cyclones?. Theoretical and Applied Climatology, 2013, 114, 643-650.	1.3	24
86	On the 1/f noise in the UV solar spectral irradiance. Theoretical and Applied Climatology, 2013, 114, 725-727.	1.3	4
87	An Effective Tool for the Tropical Cyclones Monitoring. , 2013, , .		1
88	The global signature of the ENSO and SST-like fields. Theoretical and Applied Climatology, 2013, 113, 197-204.	1.3	26
89	Plausible reasons for the inconsistencies between the modeled and observed temperatures in the tropical troposphere. Geophysical Research Letters, 2013, 40, 4906-4910.	1.5	17
90	Does scattered radiation undergo bluing within clouds?. AIP Conference Proceedings, 2013, , .	0.3	1

#	ARTICLE	IF	CITATIONS
91	On the scaling effect in global surface air temperature anomalies. Atmospheric Chemistry and Physics, 2013, 13, 5243-5253.	1.9	77
92	The grand challenges to air pollution. Frontiers in Environmental Science, 2013, 1, .	1.5	1
93	On the SUVR Variability in Athens, Greece: An Overview. Springer Atmospheric Sciences, 2013, , 939-944.	0.4	0
94	Total Ozone Observations Made by Dobson Spectrophotometer at the Most SE Station in Europe the Last Twenty Years. Springer Atmospheric Sciences, 2013, , 923-929.	0.4	0
95	Remote Sensing and Atmospheric Ozone. , 2012, , .		7
96	The exceptional ozone depletion over the Arctic in January–March 2011. Remote Sensing Letters, 2012, 3, 343-352.	0.6	41
97	The Gutenberg-Richter law for earthquakes in air pollution episodes: A case study for Athens, Greece. Acta Geophysica, 2012, 60, 280-290.	1.0	6
98	An adaptive information technology for the operative diagnostics of the tropical cyclones; solar–terrestrial coupling mechanisms. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 89, 83-89.	0.6	35
99	Intrinsic properties of Sahel precipitation anomalies and rainfall. Theoretical and Applied Climatology, 2012, 109, 627-633.	1.3	75
100	Effects of Air Pollution on Materials and Cultural Heritage: ICP Materials Celebrates 25 Years of Research. International Journal of Corrosion, 2012, 2012, 1-16.	0.6	79
101	A new tool for the study of the ozone hole dynamics over Antarctica. Atmospheric Environment, 2012, 47, 428-434.	1.9	40
102	An observational study of the atmospheric ultra-fine particle dynamics. Atmospheric Environment, 2012, 59, 312-319.	1.9	54
103	On the limits of the air pollution predictability: the case of the surface ozone at Athens, Greece. Environmental Science and Pollution Research, 2012, 19, 295-300.	2.7	43
104	The traditional measurement of ozone concentration in the atmosphere. , 2012, , 1-78.		1
105	The Montreal Protocol. , 2012, , 339-378.		1
106	New aspects of global climate-dynamics research and remote sensing. International Journal of Remote Sensing, 2011, 32, 579-600.	1.3	82
107	New features of land and sea surface temperature anomalies. International Journal of Remote Sensing, 2011, 32, 3231-3238.	1.3	57
108	On the corrosion and soiling effects on materials by air pollution in Athens, Greece. Atmospheric Chemistry and Physics, 2011, 11, 12039-12048.	1.9	57

#	ARTICLE	IF	CITATIONS
109	Interannual variability of cirrus clouds in the tropics in El Niño Southern Oscillation (ENSO) regions based on International Satellite Cloud Climatology Project (ISCCP) satellite data. <i>International Journal of Remote Sensing</i> , 2011, 32, 6395-6405.	1.3	6
110	A note on the comparison between total ozone from Oslo CTM2 and SBUV satellite data. <i>International Journal of Remote Sensing</i> , 2011, 32, 2535-2545.	1.3	4
111	A new modeling tool for the diffusion of gases in ice or amorphous binary mixture in the polar stratosphere and the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3099-3105.	1.9	30
112	Corrigendum to "A new modeling tool for the diffusion of gases in ice or amorphous binary mixture in the polar stratosphere and the upper troposphere" published in <i>Atmos. Chem. Phys.</i> , 10, 3099-3105, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3333-3333.	1.9	1
113	On the altitude dependence of the temperature scaling behaviour at the global troposphere. <i>International Journal of Remote Sensing</i> , 2010, 31, 343-349.	1.3	79
114	Major atmospheric events monitored by deep underground muon data. <i>Remote Sensing Letters</i> , 2010, 1, 169-178.	0.6	4
115	3-D visualizations of coastal bathymetry by utilization of airborne TOPSAR polarized data. <i>International Journal of Digital Earth</i> , 2010, 3, 187-206.	1.6	18
116	Long-term memory dynamics of total ozone content. <i>International Journal of Remote Sensing</i> , 2009, 30, 3897-3905.	1.3	4
117	Comparison of the Athens Dobson spectrophotometer with World Standard Instruments. <i>International Journal of Remote Sensing</i> , 2009, 30, 3943-3950.	1.3	5
118	Surface ultraviolet radiation and ozone content in Europe as indicators of environment quality. <i>International Journal of Remote Sensing</i> , 2009, 30, 4123-4143.	1.3	5
119	The enhanced deterioration of the cultural heritage monuments due to air pollution. <i>Environmental Science and Pollution Research</i> , 2009, 16, 590-592.	2.7	73
120	3-D reconstruction of coastal bathymetry from AIRSAR/POLSAR data. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 117-123.	0.7	19
121	The contribution of remote sensing to the implementation of the Montreal Protocol and the monitoring of its success. <i>International Journal of Remote Sensing</i> , 2009, 30, 3853-3873.	1.3	7
122	Scaling behaviour of the global tropopause. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 677-683.	1.9	67
123	Nitric acid and particulate matter measurements at Athens, Greece, in connection with corrosion studies. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8309-8316.	1.9	49
124	The 20th anniversary of the Montreal Protocol and the unexplainable 60% of ozone loss. <i>Environmental Science and Pollution Research</i> , 2008, 15, 448-449.	2.7	11
125	Editorial Comment "the Montreal Protocol. <i>International Journal of Remote Sensing</i> , 2008, 29, 5455-5459.	1.3	1
126	Surface solar ultraviolet irradiance and total ozone during summertime. <i>International Journal of Remote Sensing</i> , 2008, 29, 2667-2673.	1.3	1

#	ARTICLE	IF	CITATIONS
127	Technical Report: Standardization of the Athens Dobson spectrophotometer versus Reference Dobson spectrophotometer O64. International Journal of Remote Sensing, 2008, 29, 1917-1920.	1.3	4
128	A sequential analysis method for the prediction of tropical hurricanes. International Journal of Remote Sensing, 2008, 29, 2787-2798.	1.3	25
129	Association of the vertical ozone structure with the lower-stratospheric circulation. International Journal of Remote Sensing, 2008, 29, 2685-2695.	1.3	3
130	Scaling effect in planetary waves over Antarctica. International Journal of Remote Sensing, 2008, 29, 2697-2704.	1.3	24
131	Tropospheric aerosol forcing of climate: a case study for the greater area of Greece. International Journal of Remote Sensing, 2008, 29, 2507-2517.	1.3	95
132	An overview of small satellites in remote sensing. International Journal of Remote Sensing, 2008, 29, 4285-4337.	1.3	94
133	Impacts of the solar eclipse of 29 March 2006 on the surface ozone concentration, the solar ultraviolet radiation and the meteorological parameters at Athens, Greece. Atmospheric Chemistry and Physics, 2008, 8, 425-430.	1.9	71
134	The Antarctic 2006 ozone hole. International Journal of Remote Sensing, 2007, 28, 1-2.	1.3	15
135	Technical note: Validation of ENVISAT (SCIAMACHY) versus Dobson and TOMS atmospheric ozone measurements in Athens, Greece: Input for the upcoming IPY campaign. International Journal of Remote Sensing, 2007, 28, 2073-2075.	1.3	2
136	Holograph Interferometry for Modelling Rate Change of Shoreline from Airsar Data. , 2007, , .		2
137	Geophysical validation of MIPAS-ENVISAT operational ozone data. Atmospheric Chemistry and Physics, 2007, 7, 4807-4867.	1.9	130
138	Technical Note: Long-term memory effect in the atmospheric CO ₂ concentration at Mauna Loa. Atmospheric Chemistry and Physics, 2007, 7, 629-634.	1.9	127
139	Editorial and cover: Fifty years after the first artificial satellite: from Sputnik 1 to ENVISAT. International Journal of Remote Sensing, 2007, 28, 2071-2072.	1.3	82
140	Subject area 3: Atmospheric chemistry and physics. Environmental Science and Pollution Research, 2007, 14, 384-387.	2.7	82
141	Long-range persistence in global Aerosol Index dynamics. International Journal of Remote Sensing, 2006, 27, 3593-3603.	1.3	123
142	A complex study of Etna's volcanic plume from ground-based, in situ and spaceborne observations. International Journal of Remote Sensing, 2006, 27, 1855-1864.	1.3	16
143	Long-memory processes in ozone and temperature variations at the region 60° S–60° N. Atmospheric Chemistry and Physics, 2006, 6, 4093-4100.	1.9	170
144	Deposition measurement of particulate matter in connection with corrosion studies. Analytical and Bioanalytical Chemistry, 2006, 384, 1320-1330.	1.9	134

#	ARTICLE	IF	CITATIONS
145	Modern Computational Techniques for Environmental Data; Application to the Global Ozone Layer. Lecture Notes in Computer Science, 2005, , 504-510.	1.0	60
146	News on the Antarctic Ozone Hole. Environmental Science and Pollution Research, 2005, 12, 322-322.	2.7	0
147	Scaling properties of air pollution in Athens, Greece and Baltimore, Maryland. Atmospheric Environment, 2005, 39, 4041-4047.	1.9	194
148	Nitric acid measurements in connection with corrosion studies. Atmospheric Environment, 2005, 39, 6664-6672.	1.9	107
149	Power-law correlations in column ozone over Antarctica. International Journal of Remote Sensing, 2005, 26, 3333-3342.	1.3	131
150	Airborne measurements of aerosol, ozone, and solar ultraviolet irradiance in the troposphere. Journal of Geophysical Research, 2005, 110, .	3.3	109
151	Greenhouse effect problems. , 2004, , 71-132.		0
152	The extraordinary events of the major, sudden stratospheric warming, the diminutive antarctic ozone hole, and its split in 2002. Environmental Science and Pollution Research, 2004, 11, 405-411.	2.7	69
153	Atmospheric pollution and remote sensing: implications for the southern hemisphere ozone hole split in 2002 and the northern mid-latitude ozone trend. Advances in Space Research, 2004, 33, 249-253.	1.2	57
154	New features observed in the 11-year solar cycle. International Journal of Remote Sensing, 2004, 25, 2141-2157.	1.3	80
155	Global Ecodynamics. , 2004, , .		39
156	The Long-Term Coupling between Column Ozone and Tropopause Properties. Journal of Climate, 2004, 17, 3843-3854.	1.2	98
157	Modelling the global changes of the environment. , 2004, , 481-522.		0
158	Global environmental change and the World Ocean. , 2004, , 191-234.		0
159	High-latitude environment and global ecodynamics. , 2004, , 235-379.		0
160	Biogeochemical cycles of pollutants in the environment. , 2004, , 381-480.		1
161	Long-term variation in surface ozone and its precursors in Athens, Greece. Environmental Science and Pollution Research, 2003, 10, 19-23.	2.7	70
162	What is the lesson from the unprecedented event over antarctica in 2002. Environmental Science and Pollution Research, 2003, 10, 80-81.	2.7	119

#	ARTICLE	IF	CITATIONS
163	Why did a "œno-ozone-hole" episode occur in Antarctica?. Eos, 2003, 84, 183-183.	0.1	12
164	On the longitude dependence of total ozone trends over middle-latitudes. International Journal of Remote Sensing, 2003, 24, 1361-1367.	1.3	85
165	Major sudden warming and strange twist of the ozone hole over Antarctica in 2002. Europhysics News, 2003, 34, 66-67.	0.1	4
166	Review article - Remote sensing and global tropospheric ozone observed dynamics. International Journal of Remote Sensing, 2002, 23, 159-178.	1.3	75
167	Climate change problems and carbon dioxide emissions: Expecting "Rio+10"™. Environmental Science and Pollution Research, 2002, 9, 97-98.	2.7	8
168	On the plausible association between environmental conditions and human eye damage. Environmental Science and Pollution Research, 2002, 9, 163-165.	2.7	42
169	The southern hemisphere ozone hole split in 2002. Environmental Science and Pollution Research, 2002, 9, 375-376.	2.7	235
170	Aircraft observations of the solar ultraviolet irradiance throughout the troposphere. Journal of Geophysical Research, 2001, 106, 14843-14854.	3.3	73
171	Arctic ozone loss in threshold conditions: Match observations in 1997/1998 and 1998/1999. Journal of Geophysical Research, 2001, 106, 7495-7503.	3.3	66
172	Global tropospheric ozone dynamics. Environmental Science and Pollution Research, 2001, 8, 57-62.	2.7	83
173	Global tropospheric ozone dynamics. Environmental Science and Pollution Research, 2001, 8, 113-119.	2.7	80
174	On the seasonal variation of the surface ozone in Athens, Greece. Atmospheric Environment, 2001, 35, 315-320.	1.9	102
175	Human Eye Diseases Resulting from SUVR Exposure. Radiation Protection Dosimetry, 2000, 91, 25-27.	0.4	3
176	Erythemal Weighted Ultraviolet Trends Over Northern Latitudes. Radiation Protection Dosimetry, 2000, 91, 157-160.	0.4	3
177	New evidence for ozone depletion over Athens, Greece. International Journal of Remote Sensing, 2000, 21, 2951-2955.	1.3	78
178	Aircraft Observations of the Vertical Gradient of Biologically Effective Ultraviolet Radiation. Radiation Protection Dosimetry, 2000, 91, 161-163.	0.4	2
179	Match observations in the Arctic winter 1996/97: High stratospheric ozone loss rates correlate with low temperatures deep inside the polar vortex. Geophysical Research Letters, 2000, 27, 205-208.	1.5	62
180	Erythemally weighted UV trends over northern latitudes derived from Nimbus 7 TOMS measurements. Journal of Geophysical Research, 2000, 105, 7373-7382.	3.3	82

#	ARTICLE	IF	CITATIONS
181	The role of the cloud optical thickness in the attenuation of the solar ultraviolet radiation reaching the ground: Implications to the human health impacts. <i>Toxicological and Environmental Chemistry</i> , 1999, 69, 381-393.	0.6	0
182	On the uptake of O ₃ into aerosol and water droplets over Athens, Greece. <i>Toxicological and Environmental Chemistry</i> , 1999, 68, 117-131.	0.6	4
183	On the role of the lower-stratospheric circulation to the vertical ozone structure. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 481-485.	0.2	0
184	On the altitude dependence of solar effective UV. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 515-517.	0.2	59
185	Impact of total ozone variability on surface solar ultraviolet radiation change. implication for ocular damage. <i>Toxicological and Environmental Chemistry</i> , 1999, 71, 13-19.	0.6	1
186	Climate Change in the Arctic and its Empirical Diagnostics. <i>Energy and Environment</i> , 1999, 10, 469-482.	2.7	3
187	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 187-207.	1.4	64
188	An estimation of the surface solar ultraviolet irradiance during an extreme total ozone minimum. <i>Meteorology and Atmospheric Physics</i> , 1998, 68, 171-176.	0.9	79
189	Sun education in Greece. <i>Clinics in Dermatology</i> , 1998, 16, 525-526.	0.8	11
190	Total ozone and solar ultraviolet radiation, as derived from satellite and ground-based instrumentation at Dundee, Scotland. <i>International Journal of Remote Sensing</i> , 1998, 19, 3301-3305.	1.3	11
191	In situ measurements of stratospheric ozone depletion rates in the Arctic winter 1991/1992: A Lagrangian approach. <i>Journal of Geophysical Research</i> , 1998, 103, 5843-5853.	3.3	102
192	Total ozone measurements over Athens: intercomparison between Dobson, TOMS (version 6) and SBUV measurements. <i>International Journal of Remote Sensing</i> , 1998, 19, 3327-3333.	1.3	4
193	Total ozone depletion over Greece as deduced from satellite observations. <i>International Journal of Remote Sensing</i> , 1998, 19, 3317-3325.	1.3	3
194	Technical note On the influence of stray light on total ozone measurements made with Dobson spectrophotometer no. 118 in Athens, Greece. <i>International Journal of Remote Sensing</i> , 1998, 19, 3307-3315.	1.3	4
195	Health effects on human eye resulting from the increased ambient solar ultraviolet radiation. <i>Toxicological and Environmental Chemistry</i> , 1997, 61, 43-68.	0.6	5
196	Retrieval of optical properties of cloud layers from transmitted solar radiance and irradiance data. , 1997, 3237, 77.		1
197	Some further calculations on the uptake of HC1 by stratospheric sulphate aerosol droplets. <i>Toxicological and Environmental Chemistry</i> , 1997, 59, 31-41.	0.6	1
198	Thessaloniki '91 field measurement campaign. II. Ozone formation in the greater Thessaloniki area. <i>Atmospheric Environment</i> , 1997, 31, 1115-1126.	1.9	21

#	ARTICLE	IF	CITATIONS
199	Surface solar ultraviolet radiation: A theoretical approach of the SUVR reaching the ground in Athens, Greece. <i>Environmental Science and Pollution Research</i> , 1997, 4, 69-73.	2.7	77
200	Spatial and Temporal Variability of Tropospheric Ozone over Europe. , 1997, , 35-64.		11
201	A review on Greenhouse Effect and Ozone Dynamics over Greece. , 1997, , 175-228.		1
202	Atmospheric Soundings in Support of the Definition of the Tropopause Region in the South-Eastern Mediterranean Region. , 1997, , 281-284.		0
203	The spatial variation of ozone depletion in Europe. , 1997, , 9-22.		0
204	The mid-latitude total ozone trends in the northern hemisphere. <i>Geophysical Research Letters</i> , 1996, 23, 555-558.	1.5	81
205	Technical Note The use of TOMS data in the calculation of atmospheric turbidity parameters. <i>International Journal of Remote Sensing</i> , 1996, 17, 399-403.	1.3	2
206	Global total ozone dynamics. <i>Environmental Science and Pollution Research</i> , 1996, 3, 153-157.	2.7	74
207	Global total ozone dynamics. <i>Environmental Science and Pollution Research</i> , 1996, 3, 205-209.	2.7	84
208	A new parameterization of the integral ozone transmission. <i>Solar Energy</i> , 1996, 56, 573-581.	2.9	15
209	Monitoring UV radiation using polysulphone film badges at two different sites. <i>Toxicological and Environmental Chemistry</i> , 1996, 54, 211-217.	0.6	0
210	MEASUREMENT OF TOTAL OZONE CONTENT FROM SATELLITE AND SURFACE OBSERVATIONS. <i>Mapping Sciences and Remote Sensing</i> , 1996, 33, 189-195.	0.0	0
211	O ₃ destruction by clouds: Observational and theoretical studies over Athens, Greece. <i>Toxicological and Environmental Chemistry</i> , 1996, 57, 63-78.	0.6	1
212	Atmospheric Ozone Trends and Other Factors of Surface Ultraviolet Radiation Variability. <i>Environmental Conservation</i> , 1995, 22, 259-261.	0.7	70
213	Observational evidence for chemical ozone depletion over the Arctic in winter 1991â€“92. <i>Nature</i> , 1995, 375, 131-134.	13.7	178
214	Atmospheric greenhouse effect in the context of global climate change. <i>Il Nuovo Cimento Della Societ� Italiana Di Fisica C</i> , 1995, 18, 123-151.	0.2	139
215	Further evidence of the role of air pollution on solar ultraviolet radiation reaching the ground. <i>International Journal of Remote Sensing</i> , 1995, 16, 1883-1886.	1.3	89
216	Volcanic eruptions and global ozone dynamics. <i>International Journal of Remote Sensing</i> , 1995, 16, 1887-1895.	1.3	78

#	ARTICLE	IF	CITATIONS
217	Simulation ozone model in the middle atmosphere of the Northern Midlatitudes. Toxicological and Environmental Chemistry, 1995, 48, 11-29.	0.6	0
218	On the association between the column ozone and the spectral solar ultraviolet radiation. Toxicological and Environmental Chemistry, 1995, 50, 119-130.	0.6	1
219	Temporal variations of the total ozone content over Greece as deduced from satellite observations. Toxicological and Environmental Chemistry, 1995, 48, 1-9.	0.6	2
220	SIMULATION OF BROAD-BAND AND SPECTRAL SOLAR ULTRAVIOLET RADIATION. International Journal of Solar Energy, 1995, 16, 203-216.	0.2	0
221	Ozone dynamics over Greece as derived from satellite and in situ measurements. International Journal of Remote Sensing, 1995, 16, 1777-1798.	1.3	6
222	An analysis of the distribution of nitrogen dioxide in the south-eastern Mediterranean for the period 1985-1989. International Journal of Remote Sensing, 1995, 16, 1897-1903.	1.3	0
223	Measurements of the spectral components of direct normal solar radiation over Athens. International Journal of Remote Sensing, 1995, 16, 1815-1827.	1.3	3
224	The present status of the total ozone depletion over Greece and Scotland: a comparison between Mediterranean and more northerly latitudes. International Journal of Remote Sensing, 1995, 16, 1751-1763.	1.3	72
225	Atmospheric ozone variability in the context of global change. International Journal of Remote Sensing, 1995, 16, 1851-1881.	1.3	71
226	On the SO ₂ and NO ₂ interferences in total ozone measurements made with the Dobson spectrophotometer No. 118 in Athens. International Journal of Remote Sensing, 1995, 16, 1805-1813.	1.3	1
227	Possible impact of polar stratospheric processes on mid-latitude vertical ozone distributions. International Journal of Remote Sensing, 1995, 16, 1839-1850.	1.3	73
228	Recent trends of the total column ozone: implications for the Mediterranean region. International Journal of Remote Sensing, 1995, 16, 1765-1769.	1.3	68
229	On the. intercomparison of satellite and ground-based observations of prevailing cloud types over Athens. International Journal of Remote Sensing, 1995, 16, 1799-1804.	1.3	3
230	On the relationship between total ozone and solar ultraviolet radiation at St. Petersburg, Russia. Geophysical Research Letters, 1995, 22, 3481-3484.	1.5	78
231	On the statistical analysis of the ozone depletion over Greece. International Journal of Remote Sensing, 1995, 16, 1829-1837.	1.3	1
232	Association of the vertical ozone structure with the solar ultraviolet radiation reaching the ground. Toxicological and Environmental Chemistry, 1995, 52, 121-127.	0.6	3
233	The role of clouds on the solar ultraviolet radiation. Toxicological and Environmental Chemistry, 1995, 47, 77-82.	0.6	4
234	On the correction of the total ozone content over Athens, Greece as deduced from satellite observations. International Journal of Remote Sensing, 1995, 16, 1771-1776.	1.3	5

#	ARTICLE	IF	CITATIONS
235	Ozone depletion over Scotland as derived from Nimbus-7 TOMS measurements. <i>International Journal of Remote Sensing</i> , 1994, 15, 2659-2668.	1.3	77
236	Total ozone amount trend at St Petersburg as deduced from Nimbus-7 TOMS observations. <i>International Journal of Remote Sensing</i> , 1994, 15, 2669-2677.	1.3	69
237	Measurements of solar ultraviolet radiation in Greece. <i>Toxicological and Environmental Chemistry</i> , 1994, 46, 11-18.	0.6	1
238	On the ozone-related changes in biologically active ultraviolet radiation reaching the earth's surface. <i>Toxicological and Environmental Chemistry</i> , 1994, 41, 9-13.	0.6	1
239	Comparison of vertical ozone profiles as deduced from remote and in situ sensing techniques. <i>International Journal of Remote Sensing</i> , 1994, 15, 1155-1160.	1.3	0
240	On the total ozone depletion over Greece derived from satellite-flown and ground-based instruments. <i>International Journal of Remote Sensing</i> , 1994, 15, 3285-3293.	1.3	6
241	Three years of total ozone measurements over Athens obtained using the remote sensing technique of a Dobson spectrophotometer. <i>International Journal of Remote Sensing</i> , 1994, 15, 1519-1524.	1.3	74
242	Intercomparison of ozone models derived by remote and in situ sensing techniques with recent local measurements at middle latitudes. <i>International Journal of Remote Sensing</i> , 1994, 15, 1933-1939.	1.3	1
243	On the accuracy of total ozone measurements made with a Dobson spectrophotometer in Athens. <i>International Journal of Remote Sensing</i> , 1994, 15, 3279-3283.	1.3	22
244	On the role of solid NaBr in the atmosphere after the eruption of alkalic volcanoes. <i>Toxicological and Environmental Chemistry</i> , 1994, 42, 209-213.	0.6	0
245	Decrease in biologically active ultraviolet radiation due to tropospheric ozone increase. <i>Toxicological and Environmental Chemistry</i> , 1994, 45, 173-178.	0.6	3
246	Temporal variations of the total ozone content over St. Petersburg. <i>Toxicological and Environmental Chemistry</i> , 1994, 46, 19-29.	0.6	0
247	Remote sounding of minor constituents in the stratosphere and heterogeneous reactions of gases at solid interfaces. <i>International Journal of Remote Sensing</i> , 1994, 15, 1525-1530.	1.3	12
248	Comments on Linke and Unsworth-Monteith turbidity parameters in Athens by H. D. Kambezidis, D. H. Founda and N. S. Papanikolaou (January B, 1993, 119, 367-374). <i>Quarterly Journal of the Royal Meteorological Society</i> , 1994, 120, 1105-1106.	1.0	2
249	Atmospheric turbidity parameters in the highly polluted site of Athens basin. <i>Renewable Energy</i> , 1994, 4, 465-470.	4.3	71
250	Distribution of ozone laminae during EASOE and the possible influence of inertia-gravity waves. <i>Geophysical Research Letters</i> , 1994, 21, 1479-1482.	1.5	74
251	Solar ultraviolet radiation and total ozone, as derived from satellite and ground-based instrumentation. <i>Geophysical Research Letters</i> , 1994, 21, 1787-1790.	1.5	68
252	Surface ozone in Athens, Greece, at the beginning and at the end of the twentieth century. <i>Atmospheric Environment</i> , 1994, 28, 3-8.	1.9	89

#	ARTICLE	IF	CITATIONS
253	Annual, semi-annual and terannual waves in total ozone as derived from TOMS data at the subtropics. International Journal of Remote Sensing, 1994, 15, 1531-1536.	1.3	3
254	Association of the Laminated Vertical Ozone Structure with the Lower-Stratospheric Circulation. Journal of Applied Meteorology and Climatology, 1994, 33, 473-476.	1.7	77
255	Stratosphere-troposphere ozone exchange at Athens, Greece. Toxicological and Environmental Chemistry, 1994, 44, 211-216.	0.6	8
256	On the role of solid NaCl in polluted marine urban areas. Toxicological and Environmental Chemistry, 1994, 41, 135-138.	0.6	1
257	The biologically active ultraviolet radiation in relation to the surface ozone and the wind field. Toxicological and Environmental Chemistry, 1994, 44, 233-242.	0.6	5
258	Precursors of the Surface Ozone and Their Relationship with Meteorological Parameters in Athens-Greece. , 1994, , 225-229.		0
259	The Athens Station for Atmospheric Ozone and Solar Radiation Monitoring. , 1994, , 263-268.		0
260	Prevailing cloud types in Athens. Theoretical and Applied Climatology, 1993, 48, 89-100.	1.3	5
261	Atmospheric ozone concentration at Athens, Greece. Part I: Surface ozone and its relationship with meteorological parameters. Atmospheric Research, 1993, 30, 143-149.	1.8	6
262	Atmospheric ozone concentration at Athens, Greece. Part II: Vertical ozone distribution in the troposphere. Atmospheric Research, 1993, 30, 151-155.	1.8	18
263	Thermodynamic properties of defects in H_2O , NaCl, NABR crystals on the basis of bulk elastic data for atmospheric implications. Toxicological and Environmental Chemistry, 1993, 38, 157-162.	0.6	1
264	Ozone depletion over Greece as deduced from Nimbus-7 TOMS measurements. International Journal of Remote Sensing, 1993, 14, 2053-2059.	1.3	68
265	Thermodynamic properties of alkali-halide crystals: Implication for sea salt particles in polluted marine areas. Toxicological and Environmental Chemistry, 1993, 38, 201-205.	0.6	0
266	Deviations of the temperature models derived by remote and in situ sensing techniques for the global middle atmosphere. International Journal of Remote Sensing, 1992, 13, 3127-3133.	1.3	4
267	Terannual Wave in the Ozone and Temperature in the Strato-Mesosphere as Deduced from Satellite Measurements. Journal of Climate, 1992, 5, 181-185.	1.2	6
268	The impact of air pollution in an urban area on the amount of solar ultraviolet radiation at the surface. Toxicological and Environmental Chemistry, 1992, 36, 195-203.	0.6	11
269	Relationship of ozone and its precursors in the West Coast Air Basin of Athens: a statistical model for the assessment of air quality in an urban area. Atmospheric Research, 1992, 28, 41-47.	1.8	5
270	Annual and semiannual waves in ozone as derived from SBUV vertical global ozone profiles. Geophysical Research Letters, 1992, 19, 925-928.	1.5	5

#	ARTICLE	IF	CITATIONS
271	On the relationship between the 10.7 cm solar flux, surface pressure and air temperature over Greece. Theoretical and Applied Climatology, 1992, 46, 27-32.	1.3	6
272	An experimental study of nighttime air-pollutant transport over complex terrain in Athens. Atmospheric Environment Part B Urban Atmosphere, 1992, 26, 59-71.	0.5	39
273	Re-evaluation of surface ozone over Athens, Greece, for the period 1901-1940. Atmospheric Research, 1991, 26, 303-310.	1.8	78
274	The role of quasi-stationary planetary waves in the retrieval of concentrations from satellite measurements. Geophysical Research Letters, 1991, 18, 681-684.	1.5	4
275	Calculation of diffusion coefficients of nitrogen in vanadium. Journal of Physics and Chemistry of Solids, 1991, 52, 523-525.	1.9	5
276	Connections between the U.S. national temperature, the 10.7 cm solar flux and the equatorial QBO. Theoretical and Applied Climatology, 1991, 43, 159-160.	1.3	0
277	A simple algorithm for simulating the solar ultraviolet radiation at the Earth's surface: An application in determining the minimum erythema dose. Earth, Moon and Planets, 1991, 53, 191-204.	0.3	14
278	Sea-surface temperature and southern oscillation signal in the upper stratosphere-lower mesosphere. International Journal of Climatology, 1991, 11, 77-83.	1.5	3
279	Connection between the Birch equation of state and the schottky formation volume in NaCl. Journal of Physics and Chemistry of Solids, 1989, 50, 1193-1194.	1.9	0
280	Comment on connections between the 11-year solar cycle, the Q.B.O. and total ozone. Journal of Atmospheric and Solar-Terrestrial Physics, 1989, 51, 367-370.	0.9	70
281	Ozone and temperature fluctuations in the strato-mesosphere with solar activity. Astrophysics and Space Science, 1988, 146, 339-345.	0.5	0
282	New results on the strato-mesospheric cooling of the Northern Hemisphere (1969-1978). Earth, Moon and Planets, 1988, 41, 191-196.	0.3	0
283	The temperature variations in the troposphere, stratosphere, and mesosphere of the Northern Hemisphere, 1965-1981. Earth, Moon and Planets, 1988, 40, 315.	0.3	0
284	Cation Vacancy Migration Entropy in Alkali Halides. Physica Status Solidi (B): Basic Research, 1988, 147, 83-88.	0.7	2
285	Interconnection of individual vacancy formation and pinning thermodynamic parameters in KCl. Solid State Ionics, 1988, 26, 11-13.	1.3	6
286	Elastic moduli of BCC V-Ti, Mo-Nb and W-Ta alloys. Journal of Physics F: Metal Physics, 1988, 18, 1133-1136.	1.6	8
287	Correlation of the individual vacancy-formation parameters in NaCl. Physical Review B, 1988, 38, 1548-1549.	1.1	6
288	Migration volumes in PbF ₂ from recent elastic and expansivity data. Physical Review B, 1988, 37, 9820-9823.	1.1	1

#	ARTICLE	IF	CITATIONS
289	Comments on the diffusion of Ni and Ge in nickel. Journal of Physics F: Metal Physics, 1988, 18, 1635-1640.	1.6	1
290	Temperature trends in the stratosphere and lower mesosphere of the Northern Hemisphere. Earth, Moon and Planets, 1987, 39, 93-99.	0.3	0
291	Notes on the design and operation of aerospace vehicles. Astrophysics and Space Science, 1987, 134, 205-208.	0.5	1
292	Periodic variations in Stratospheric and low Mesospheric zonal wind in the two hemispheres. Theoretical and Applied Climatology, 1987, 38, 167-173.	1.3	0
293	Further evidence of the 11-year solar cycle in stratospheric-lower mesospheric ozone and temperatures. Theoretical and Applied Climatology, 1987, 38, 103-106.	1.3	5
294	Quasi-stationary planetary waves and temperature reference atmosphere. Meteorology and Atmospheric Physics, 1987, 37, 297-299.	0.9	17
295	Connection of activation volume and activation enthalpy with the bulk properties in olivine, LiBr and CsCl. Solid State Ionics, 1986, 20, 291-293.	1.3	6
296	On a plausible explanation of the connection of point defect parameters with the melting point. Journal of Physics and Chemistry of Solids, 1986, 47, 79-82.	1.9	10
297	Seasonal variation of upper stratospheric and lower mesospheric temperature. Archiv für Meteorologie Geophysik Und Bioklimatologie Serie B, 1986, 36, 229-238.	0.8	7
298	On the connection of the formation enthalpy of a schottky defect in insulators with the debye temperature. Radiation Effects, 1986, 99, 185-189.	0.4	1
299	Electrical properties of non-irradiated and X-irradiated LiH and LiD. Radiation Effects, 1986, 99, 115-120.	0.4	1
300	Comment on the Elastic Constants of CaF_2 ; SrF_2 Mixed Crystals. Physica Status Solidi (B): Basic Research, 1985, 129, K95.	0.7	10
301	Point Defect Entropies and Enthalpies in KCl. Physica Status Solidi (B): Basic Research, 1985, 130, K105.	0.7	2
302	Comments on the ionic conduction in KBr - KI mixed crystals. Journal of Physics and Chemistry of Solids, 1985, 46, 643.	1.9	4
303	Comments on "The Temperature and Pressure Dependence of Disaccommodation in a Manganese Zinc Ferrite Single Crystal". Japanese Journal of Applied Physics, 1985, 24, 781-781.	0.8	50
304	Point defect parameters of LiF. Journal of Physics C: Solid State Physics, 1985, 18, 3891-3895.	1.5	66
305	Migration and activation defect volumes in CdF_2 . Physical Review B, 1985, 32, 2634-2635.	1.1	3
306	A note on the intercomparison between monthly mean radiance equivalent and rocketsonde temperatures. Archives for Meteorology, Geophysics and Bioclimatology, Series A, 1983, 32, 129-134.	0.4	3

#	ARTICLE	IF	CITATIONS
307	Mission to Mars: effective tools for searching and diagnosing water resources. Remote Sensing Letters, 0, , 1-13.	0.6	7
308	The remotely sensed geometric data of rain and clouds as a basis for studying extreme events. Remote Sensing Letters, 0, , 1-7.	0.6	3