

# Roxana S Savastru

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

948  
citations

840776

11  
h-index

552781

26  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the relationship between surface levels of PM2.5 and PM10 particulate matter impact on COVID-19 in Milan, Italy. <i>Science of the Total Environment</i> , 2020, 738, 139825.	8.0	364
2	Assessing the relationship between ground levels of ozone (O3) and nitrogen dioxide (NO2) with coronavirus (COVID-19) in Milan, Italy. <i>Science of the Total Environment</i> , 2020, 740, 140005.	8.0	176
3	Optical techniques for the noninvasive diagnosis of skin cancer. <i>Journal of Cancer Research and Clinical Oncology</i> , 2013, 139, 1083-1104.	2.5	105
4	Characterization of burns using hyperspectral imaging technique – A preliminary study. <i>Burns</i> , 2015, 41, 118-124.	1.9	57
5	Hyperspectral imaging-based wound analysis using mixture-tuned matched filtering classification method. <i>Journal of Biomedical Optics</i> , 2015, 20, 046004.	2.6	52
6	A review of the effectiveness of thermal infrared imaging in the diagnosis and monitoring of knee diseases. <i>Infrared Physics and Technology</i> , 2015, 69, 19-25.	2.9	24
7	Ground level ozone (O3) associated with radon (222Rn) and particulate matter (PM) concentrations in Bucharest metropolitan area and adverse health effects. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 729-746.	1.5	18
8	Impacts of exposure to air pollution, radon and climate drivers on the COVID-19 pandemic in Bucharest, Romania: A time series study. <i>Environmental Research</i> , 2022, 212, 113437.	7.5	17
9	Quality assessment of Romanian bottled mineral water and tap water. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 521.	2.7	16
10	Temporal trends of carbon monoxide (CO) and radon (222Rn) tracers of urban air pollution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 55-70.	1.5	13
11	Hyperspectral index-based metric for burn depth assessment. <i>Biomedical Optics Express</i> , 2018, 9, 5778.	2.9	12
12	Urban vegetation land covers change detection using multi-temporal MODIS Terra/Aqua data. <i>Proceedings of SPIE</i> , 2013, , .	0.8	11
13	Comparison of river and canal water dissolved organic matter fluorescence within an urbanised catchment. <i>Water and Environment Journal</i> , 2014, 28, 11-22.	2.2	10
14	Satellite thermal infrared anomalies associated with strong earthquakes in the Vrancea area of Romania. <i>Open Geosciences</i> , 2015, 7, .	1.7	9
15	High-contrast 2D etched holes array obtained by direct laser writing on chalcogenide As <sub>2</sub> S <sub>3</sub> films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2173-2178.	1.8	8
16	Urban thermal environment and its biophysical parameters derived from satellite remote sensing imagery. , 2013, , .		7
17	Earthquake anomalies recognition through satellite and in-situ monitoring data. <i>European Journal of Remote Sensing</i> , 2016, 49, 1011-1032.	3.5	6
18	Spectral Analysis of Methylene Blue-Mediated Photodynamic Inactivation of Bacteria Using a 635-nm Diode Laser System. <i>Spectroscopy Letters</i> , 2013, 46, 327-333.	1.0	5

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19	Optospectral techniques for urban forest state characterization. , 2013, , .		5
20	Design of a smart superstructure FBC torsion sensor. Proceedings of SPIE, 2015, , .	0.8	5
21	Numerical analysis of a smart composite material mechanical component using an embedded long period grating fiber sensor. , 2015, , .		5
22	Impact of climate and anthropogenic changes on a periurban forest surface albedo derived from MODIS satellite data. , 2013, , .		4
23	Fractionated Irradiation in Photobiomodulation Therapy of Ankle Sprain. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 692-698.	1.4	3
24	Surveillance of Vrancea active seismic region in Romania through time series satellite data. Open Geosciences, 2014, 6, .	1.7	2
25	Simulated altitude exposure assessment by hyperspectral imaging. Journal of Biomedical Optics, 2017, 22, 056012.	2.6	2
26	Eï¬€ect of urban surface albedo on thermal environment characterization. , 2019, , .		2
27	Hyperspectral Imaging Combined with Machine Learning Classifiers for Diabetic Leg Ulcer Assessment â€œ A Case Study. Communications in Computer and Information Science, 2020, , 74-85.	0.5	2
28	Ultraviolet radiation sensors on the basis of semiconductors. , 2001, 4430, 858.		1
29	Numerical simulation of a laser-acoustic landmine detection system. Proceedings of SPIE, 2012, , .	0.8	1
30	Analysis of a passively q-switched Nd:YAG slab laser oscillator/amplifier system. , 2012, , .		1
31	Analysis of climatic and anthropogenic changes effects on spectral vegetation indices of forested areas. Proceedings of SPIE, 2013, , .	0.8	1
32	Classic (Nonquantic) Algorithm for Observations and Measurements Based on Statistical Strategies of Particles Fields. Advances in High Energy Physics, 2013, 2013, 1-11.	1.1	1
33	Numerical simulation of distributed feed-back fiber laser sensors. Proceedings of SPIE, 2013, , .	0.8	1
34	Impacts of urban growth and heat waves events on the urban heat island in Bucharest city. , 2016, , .		1
35	Multi-precursors assessment of earthquakes by geospatial and ground data. , 2018, , .		1
36	Fluid optical components and their applications in optoelectronics. , 1998, 3405, 801.		0

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37	Comparison of laser regimes for stamp cleaning. , 2001, , .		0
38	Working distance control and aiming system for artwork restoration equipment with laser beam. , 2001, , .		0
39	Stable One-Dimensional Periodic Wave in Kerr-Type and Quadratic Nonlinear Media. Mathematical Problems in Engineering, 2012, 2012, 1-6.	1.1	0
40	Analysis of bulk and nanostructured passive Q-switches for erbium laser oscillators. Proceedings of SPIE, 2013, , .	0.8	0
41	Analysis of urbanization and climate change impacts on the urban thermal environment based on MODIS satellite data. , 2014, , .		0
42	Transversal Effect in Stimulated Brillouin Scattering Used Orthonormale Modes Development. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2141-2149.	0.4	0
43	Time-series MODIS satellite and in-situ data for spatio-temporal distribution of aerosol pollution assessment over Bucharest metropolitan area. , 2015, , .		0
44	Urban green spatio- temporal changes assessment through time-series satellite data. , 2015, , .		0
45	An Integrated Geospatial System for earthquake precursors assessment in Vrancea tectonic active zone in Romania. , 2015, , .		0
46	Lithosphere-Surfacesphereâ€“Atmosphere-Ionosphere coupling model for Vrancea seismic zone in Romania. AIP Conference Proceedings, 2016, , .	0.4	0
47	Integrated remote sensing for multi-temporal analysis of urban land cover-climate interactions. , 2016, , .		0
48	Earthquake signature revealed by time series satellite and ground-based data. Proceedings of SPIE, 2016, , .	0.8	0
49	Synergy use of satellite remote sensing and in-situ monitoring data for air pollution impacts on urban climate. , 2016, , .		0
50	Satellite Earth observation data to identify climate and anthropogenic pressures on Bucharest periurban forests. AIP Conference Proceedings, 2016, , .	0.4	0
51	Derived biogeophysical information from satellite imagery for assessment of extreme climate impacts on urban green environment. AIP Conference Proceedings, 2019, , .	0.4	0
52	Investigation of earthquake precursors in Vrancea active geotectonic region through geospatial and field data. AIP Conference Proceedings, 2019, , .	0.4	0
53	New evidence from hyperspectral imaging analysis on the effect of photobiomodulation therapy on normal skin oxygenation. Lasers in Medical Science, 2021, , 1.	2.1	0
54	TIR time series satellite and field data for seismic anomalies monitoring. , 2017, , .		0

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55	Geospatial data for assessment of extreme climate impacts on urban environment. , 2017, , .		0
56	Surface deformation analysis over Vrancea seismogenic area through radar and GPS geospatial data. , 2017, , .		0
57	City landscape changes effects on land surface temperature in Bucharest metropolitan area. , 2017, , .		0
58	Carpathian mountain forest vegetation and its responses to climate stressors. , 2017, , .		0
59	Integrated remote sensing for urban forest changes monitoring. , 2018, , .		0
60	Investigation of atmospheric anomalies recorded for moderate or strong earthquakes by geospatial and field data. , 2018, , .		0
61	Spatiotemporal urban growth impact on Bucharest metropolitan region climate. , 2018, , .		0
62	Climate effects of aerosols in Bucharest metropolitan area. , 2018, , .		0