Boris A Portnov

List of Publications by Year
in descending order

81 papers	3,579 citations	218381 26 h-index	143772 57 g-index
82 all docs	82 docs citations	82 times ranked	3390 citing authors

#	Article	IF	Citations
1	Coloring Panchromatic Nighttime Satellite Images: Comparing the Performance of Several Machine Learning Methods. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	3
2	Using mobile phones as light at night and noise measurement instruments: a validation test in real world conditions. Chronobiology International, 2022, 39, 26-44.	0.9	0
3	The exposure assessment period to air pollutants which affects lung function: analysis of recent studies and an explanatory model. Air Quality, Atmosphere and Health, 2022, 15, 393-402.	1.5	2
4	Evaluating Street Lighting Quality in Residential Areas by Combining Remote Sensing Tools and a Survey on Pedestriansâ€™ Perceptions of Safety and Visual Comfort. Remote Sensing, 2022, 14, 826.	1.8	11
5	Criteria for Smart City Identification: A Systematic Literature Review. Sustainability, 2022, 14, 4448.	1.6	22
6	Saving energy while maintaining the feeling of safety associated with urban street lighting. Clean Technologies and Environmental Policy, 2021, 23, 251-269.	2.1	12
7	Interactive Scenario-Based Assessment Approach of Urban Street Lighting and Its Application to Estimating Energy Saving Benefits. Energies, 2021, 14, 378.	1.6	8
8	Assessing the impacts of ALAN and noise proxies on sleep duration and quality: evidence from a nation-wide survey in Israel. Chronobiology International, 2021, 38, 638-658.	0.9	8
9	Delineating Functional Urban Areas Using a Multi-Step Analysis of Artificial Light-at-Night Data. Remote Sensing, 2021, 13, 3714.	1.8	5
10	Estimating the effectiveness of different environmental law enforcement policies on illegal C&D waste dumping in Israel. Waste Management, 2020, 102, 241-248.	3.7	43
11	Forecasting health effects potentially associated with the relocation of a major air pollution source. Environmental Research, 2020, 182, 109088.	3.7	13
12	Differential effect of knowledge on stakeholdersâ€™ willingness to pay green building price premium: Implications for cleaner production. Journal of Cleaner Production, 2020, 251, 119575.	4.6	35
13	Remote sensing of night lights: A review and an outlook for the future. Remote Sensing of Environment, 2020, 237, 111443.	4.6	442
14	Testing the generality of economic activity models estimated by merging night-time satellite images with socioeconomic data. Advances in Space Research, 2020, 66, 2610-2620.	1.2	2
15	Eco-innovations and economic performance of regions: a systematic literature survey. Regional Studies, Regional Science, 2020, 7, 571-588.	0.7	4
16	A Relative Radiation Normalization Method of ISS Nighttime Light Images Based on Pseudo Invariant Features. Remote Sensing, 2020, 12, 3349.	1.8	6
17	How Much Lighting is Required to Feel Safe When Walking Through the Streets at Night?. Sustainability, 2020, 12, 3133.	1.6	19
18	The impact of artificial light at night on human and ecosystem health: a systematic literature review. Landscape Ecology, 2020, 35, 1725-1742.	1.9	50

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19	Characterization of Localities with a High Likelihood of Illicit Connections between Runoff and Sewage Systems. Environmental Management, 2020, 65, 748-757.	1.2	2
20	Linking nighttime outdoor lighting attributes to pedestrians' feeling of safety: An interactive survey approach. PLoS ONE, 2020, 15, e0242172.	1.1	18
21	Environmental and Security Risk Factors behind Mortgage Arrears in Israel. Journal of Real Estate Research, 2020, 42, 183-205.	0.3	0
22	Light pollution in USA and Europe: The good, the bad and the ugly. Journal of Environmental Management, 2019, 248, 109227.	3.8	92
23	Spatial identification of environmental health hazards potentially associated with adverse birth outcomes. Environmental Science and Pollution Research, 2019, 26, 3578-3592.	2.7	2
24	Prevalence of Asthma among Young Men Residing in Urban Areas with Different Sources of Air Pollution. Israel Medical Association Journal, 2019, 21, 785-789.	0.1	2
25	Stimulating green construction by influencing the decision-making of main players. Sustainable Cities and Society, 2018, 40, 165-173.	5.1	30
26	Factors affecting homebuyers' willingness to pay green building price premium: Evidence from a nationwide survey in Israel. Building and Environment, 2018, 137, 280-291.	3.0	72
27	Identifying areas under potential risk of illegal construction and demolition waste dumping using GIS tools. Waste Management, 2018, 75, 22-29.	3.7	62
28	Modifying behaviour to save energy at home is harder than we thinkâ€¦. Energy and Buildings, 2018, 179, 384-398.	3.1	34
29	Environmental risk factors associated with low birth weight: The case study of the Haifa Bay Area in Israel. Environmental Research, 2018, 165, 337-348.	3.7	16
30	Population-level study links short-wavelength nighttime illumination with breast cancer incidence in a major metropolitan area. Chronobiology International, 2018, 35, 1198-1208.	0.9	25
31	Kernel density analysis reveals a halo pattern of breast cancer incidence in Connecticut. Spatial and Spatio-temporal Epidemiology, 2018, 26, 143-151.	0.9	11
32	Lower Cancer Rates Among Druze Compared to Arab and Jewish Populations in Israel, 1999â€“2009. Journal of Religion and Health, 2017, 56, 741-754.	0.8	5
33	Is prostate cancer incidence worldwide linked to artificial light at night exposures? Review of earlier findings and analysis of current trends. Archives of Environmental and Occupational Health, 2017, 72, 111-122.	0.7	23
34	Remote identification of research and educational activities using spectral properties of nighttime light. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 128, 212-222.	4.9	8
35	A new approach to spatial identification of potential health hazards associated with childhood asthma. Science of the Total Environment, 2017, 595, 413-424.	3.9	7
36	Public Fears in Ukrainian Society. Psychology and Developing Societies, 2017, 29, 98-123.	1.0	3

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37	Estimating geographic concentrations of quaternary industries in Europe using Artificial Light-At-Night (ALAN) data. International Journal of Digital Earth, 2017, 10, 861-878.	1.6	6
38	GDP per capita and obesity prevalence worldwide: an ambiguity of effects modification. International Journal of Obesity, 2017, 41, 352-352.	1.6	3
39	Spatial identification of potential health hazards: a systematic areal search approach. International Journal of Health Geographics, 2017, 16, 5.	1.2	2
40	Modeling long-term effects attributed to nitrogen dioxide (NO₂) and sulfur dioxide (SO₂) exposure on asthma morbidity in a nationwide cohort in Israel. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 326-337.	1.1	14
41	Outdoor light and breast cancer incidence: a comparative analysis of DMSP and VIIRS-DNB satellite data. International Journal of Remote Sensing, 2017, 38, 5952-5961.	1.3	33
42	A Remote Sensing Data Based Artificial Neural Network Approach for Predicting Climate-Sensitive Infectious Disease Outbreaks: A Case Study of Human Brucellosis. Remote Sensing, 2017, 9, 1018.	1.8	15
43	Application of the double kernel density approach to the analysis of cancer incidence in a major metropolitan area. Environmental Research, 2016, 150, 269-281.	3.7	5
44	Different effects of long-term exposures to SO₂ and NO₂ air pollutants on asthma severity in young adults. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2016, 79, 342-351.	1.1	64
45	Light at night and breast cancer incidence in Connecticut: An ecological study of age group effects. Science of the Total Environment, 2016, 572, 1020-1024.	3.9	29
46	The new world atlas of artificial night sky brightness. Science Advances, 2016, 2, e1600377.	4.7	948
47	Application of the double kernel density approach to the multivariate analysis of attributeless event point datasets. Letters in Spatial and Resource Sciences, 2016, 9, 363-382.	1.2	5
48	Does artificial light-at-night exposure contribute to the worldwide obesity pandemic?. International Journal of Obesity, 2016, 40, 815-823.	1.6	107
49	Artificial Light at Night (ALAN) and breast cancer incidence worldwide: A revisit of earlier findings with analysis of current trends. Chronobiology International, 2015, 32, 757-773.	0.9	39
50	Using light-at-night (LAN) satellite data for identifying clusters of economic activities in Europe. Letters in Spatial and Resource Sciences, 2015, 8, 307-334.	1.2	7
51	Air Pollution and Respiratory Morbidity in Israel: A Review of Accumulated Empiric Evidence. Israel Medical Association Journal, 2015, 17, 445-50.	0.1	5
52	Mapping geographical concentrations of economic activities in Europe using light at night (LAN) satellite data. International Journal of Remote Sensing, 2014, 35, 7706-7725.	1.3	19
53	Evaluating the effect of vehicle impoundment policy on illegal construction and demolition waste dumping: Israel as a case study. Waste Management, 2014, 34, 1436-1445.	3.7	24
54	Spatial Data Analysis Using Kernel Density Tools. , 2014, , 2252-2264.		5

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55	Light Pollution as a New Risk Factor for Human Breast and Prostate Cancers. , 2013, , .		65
56	High prevalence of childhood asthma in Northern Israel is linked to air pollution by particulate matter: evidence from GIS analysis and Bayesian Model Averaging. International Journal of Environmental Health Research, 2012, 22, 249-269.	1.3	36
57	Residential proximity to petroleum storage tanks and associated cancer risks: Double Kernel Density approach vs. zonal estimates. Science of the Total Environment, 2012, 441, 265-276.	3.9	30
58	Does Gibratâ€™s law for cities hold when location counts?. Annals of Regional Science, 2012, 48, 151-178.	1.0	6
59	Does Zipfâ€™s law hold for primate cities? Some evidence from a discriminant analysis of world countries. Review of Regional Research, 2011, 31, 113-129.	0.6	3
60	Does the Modern Urbanized Sleeping Habitat Pose a Breast Cancer Risk?. Chronobiology International, 2011, 28, 76-80.	0.9	72
61	Nighttime light level co-distributes with breast cancer incidence worldwide. Cancer Causes and Control, 2010, 21, 2059-2068.	0.8	139
62	Who is affected more by air pollutionâ€”Sick or healthy? Some evidence from a health survey of schoolchildren living in the vicinity of a coal-fired power plant in Northern Israel. Health and Place, 2010, 16, 399-408.	1.5	23
63	Exploratory analysis of potential risk factors of a rare disease: Spatial distribution of adrenocortical carcinoma in Israel as a case study. Science of the Total Environment, 2009, 407, 1738-1743.	3.9	1
64	Studying the association between air pollution and lung cancer incidence in a large metropolitan area using a kernel density function. Socio-Economic Planning Sciences, 2009, 43, 141-150.	2.5	35
65	Non-Hodgkin Lymphoma (NHL) linkage with residence near heavy roadsâ€”A case study from Haifa Bay, Israel. Health and Place, 2009, 15, 636-641.	1.5	14
66	URBAN CLUSTERS AS GROWTH FOCI*. Journal of Regional Science, 2009, 49, 287-310.	2.1	45
67	Using kernel density function as an urban analysis tool: Investigating the association between nightlight exposure and the incidence of breast cancer in Haifa, Israel. Computers, Environment and Urban Systems, 2009, 33, 55-63.	3.3	72
68	Global Coâ€Ðistribution of Light at Night (LAN) and Cancers of Prostate, Colon, and Lung in Men. Chronobiology International, 2009, 26, 108-125.	0.9	186
69	Investigating the Effect of Train Proximity on Apartment Prices: Haifa, Israel as a Case Study. Journal of Real Estate Research, 2009, 31, 371-396.	0.3	18
70	Light at Night Coâ€ðistributes with Incident Breast but not Lung Cancer in the Female Population of Israel. Chronobiology International, 2008, 25, 65-81.	0.9	189
71	On the Relativity of Urban Location. Regional Studies, 2008, 42, 605-615.	2.5	19
72	Estimating the effect of air pollution from a coal-fired power station on the development of children's pulmonary function. Environmental Research, 2007, 103, 87-98.	3.7	31

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73	On ecological fallacy, assessment errors stemming from misguided variable selection, and the effect of aggregation on the outcome of epidemiological study. Journal of Exposure Science and Environmental Epidemiology, 2007, 17, 106-121.	1.8	71
74	Distance decay function in criminal behavior: a case of Israel. Annals of Regional Science, 2007, 41, 673-688.	1.0	22
75	Urban Clustering, Development Similarity, and Local Growth: A Case Study of Canada. European Planning Studies, 2006, 14, 1287-1314.	1.6	19
76	Critical Surveys Edited by Stephen Roper Understanding regional inequalities in small countries. Regional Studies, 2005, 39, 647-658.	2.5	11
77	Interregional Disparities in Israel: Patterns and Trends. , 2005, , 187-210.		2
78	Visualization of the spatial patterns of inter-urban income disparities using coordinate transformations. International Journal of Geographical Information Science, 2004, 18, 281-297.	2.2	1
79	Long-term growth of small towns in Israel: Does location matter?. Annals of Regional Science, 2004, 38, 627-653.	1.0	12
80	Development Peculiarities of Peripheral Desert Settlements: The Case of Israel. International Journal of Urban and Regional Research, 1998, 22, 216-232.	1.2	25
81	Artificial Light at Night and Obesity: Does the Spread of Wireless Information and Communication Technology Play a Role?. International Journal of Sustainable Lighting, 0, 18, 16-20.	1.2	4