Dimitrios N Nikolopoulos

List of Publications by Year
in descending order

103 papers	1,101 citations	393982 19 h-index	525886 27 g-index
105 all docs	105 docs citations	105 times ranked	923 citing authors

#	Article	IF	Citations
1	Validation of a GATE model for the simulation of the Siemens biographâ„¢ 6 PET scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 263-266.	0.7	55
2	Study of indoor radon and radon in drinking water in Greece and Cyprus: Implications to exposure and dose. Radiation Measurements, 2008, 43, 1305-1314.	0.7	52
3	Comparative evaluation of two commercial PET scanners, ECAT EXACT HR+ and Biograph 2, using GATE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 368-372.	0.7	41
4	Comprehensive Review on the Biodiesel Production using Solid Acid Heterogeneous Catalysts. Journal of Thermodynamics & Catalysis, 2015, 06, .	0.2	39
5	Radon Sources and Associated Risk in Terms of Exposure and Dose. Frontiers in Public Health, 2014, 2, 207.	1.3	39
6	On the response of Y3Al5O12: Ce (YAG: Ce) powder scintillating screens to medical imaging X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 615-630.	0.7	37
7	Luminescence efficiency of Gd/sub 2/SiO/sub 5/:Ce scintillator under X-ray excitation. IEEE Transactions on Nuclear Science, 2005, 52, 1830-1835.	1.2	37
8	Luminescence Properties of $({m Lu},{m Y})_{2}{m SiO}_{5}:{m Ce}$ and ${m Gd}_{2}{m SiO}_{5}:{m Ce}$ Single Crystal Scintillators Under X-Ray Excitation for Use in Medical Imaging Systems. IEEE Transactions on Nuclear Science, 2007, 54, 11-18.	1.2	33
9	Evaluation of ZnS:Cu phosphor as X-ray to light converter under mammographic conditions. Radiation Measurements, 2005, 39, 263-275.	0.7	31
10	Environmental monitoring of radon in soil during a very seismically active period occurred in South West Greece. Journal of Environmental Monitoring, 2012, 14, 564-578.	2.1	30
11	Radon survey in Greeceâ€"risk assesment. Journal of Environmental Radioactivity, 2002, 63, 173-186.	0.9	29
12	Evaluation of the light emission efficiency of LYSO:Ce scintillator under X-ray excitation for possible applications in medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 201-204.	0.7	26
13	Radon variations during treatment in thermal spas of Lesvos Island (Greece). Journal of Environmental Radioactivity, 2004, 75, 159-170.	0.9	24
14	Self-organised critical features in soil radon and MHz electromagnetic disturbances: Results from environmental monitoring in Greece. Applied Radiation and Isotopes, 2013, 72, 39-53.	0.7	23
15	Evaluation of the imaging performance of LSO powder scintillator for use in X-ray mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 558-561.	0.7	22
16	Traces of self-organisation and long-range memory in variations of environmental radon in soil: comparative results from monitoring in Lesvos Island and Ileia (Greece). Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 203-219.	0.7	22
17	Light emission efficiency and imaging properties of YAP:Ce granular phosphor screens. Applied Physics A: Materials Science and Processing, 2007, 89, 443-449.	1.1	20
18	Radioluminescence properties of the CdSe/ZnS Quantum Dot nanocrystals with analysis of long-memory trends. Radiation Measurements, 2016, 92, 19-31.	0.7	20

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19	Light emission efficiency and imaging performance of Y3Al5O12: Ce (YAG: Ce) powder screens under diagnostic radiology conditions. Applied Physics B: Lasers and Optics, 2005, 80, 923-933.	1.1	19
20	A systematic study of the performance of the CsI:Tl single-crystal scintillator under X-ray excitation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 343-345.	0.7	19
21	Fractal and Long-Memory Traces in PM10 Time Series in Athens, Greece. Environments - MDPI, 2019, 6, 29.	1.5	19
22	Modelling of radon concentration peaks in thermal spas: Application to Polichnitos and Eftalou spas (Lesvos Islandâ€"Greece). Science of the Total Environment, 2008, 405, 36-44.	3.9	18
23	Radon exposure in the thermal spas of Lesvos Island--Greece. Radiation Protection Dosimetry, 2004, 111, 121-127.	0.4	16
24	Comparative study of luminescence properties of LuYAP:Ce and LYSO:Ce single-crystal scintillators for use in medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 614-616.	0.7	16
25	Modelling radon progeny concentration variations in thermal spas. Science of the Total Environment, 2007, 373, 82-93.	3.9	16
26	Radon-222: A Potential Short-Term Earthquake Precursor. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	16
27	Investigation of the exposure to radon and progeny in the thermal spas of Loutraki (Attica-Greece): Results from measurements and modelling. Science of the Total Environment, 2010, 408, 495-504.	3.9	15
28	Long-range memory patterns in variations of environmental radon in soil. Analytical Methods, 2013, 5, 4010.	1.3	15
29	Electromagnetic Pre-earthquake Precursors: Mechanisms, Data and Models-A Review. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	15
30	Radon variations during treatment in thermal spas of Lesvos Island (Greece). Journal of Environmental Radioactivity, 2004, 76, 283-294.	0.9	14
31	A theoretical model evaluating the angular distribution of luminescence emission in X-ray scintillating screens. Applied Radiation and Isotopes, 2006, 64, 508-519.	0.7	13
32	Comprehensive Experience for Indoor Air Quality Assessment: A Review on the Determination of Volatile Organic Compounds (VOCs). , 2014, 4, .		13
33	Fractal evolution of MHz electromagnetic signals prior to earthquakes: results collected in Greece during 2009. Geomatics, Natural Hazards and Risk, 2016, 7, 550-564.	2.0	13
34	Study of a Greek area with enhanced indoor radon concentrations. Radiation Protection Dosimetry, 2003, 106, 219-225.	0.4	12
35	Efficiency of Lu2SiO5:Ce (LSO) powder phosphor as X-ray to light converter under mammographic imaging conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 346-349.	0.7	12
36	On the response of alloyed ZnCdSeS quantum dot films. Results in Physics, 2017, 7, 1734-1736.	2.0	12

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37	Blood pressure elevation after phenylephrine infusion may adversely affect myocardial perfusion in patients with coronary artery disease. International Journal of Cardiology, 2002, 84, 201-209.	0.8	11
38	Long-Memory Trends in Disturbances of Radon in Soil Prior to the Twin ML=5.1 Earthquakes of 17 November 2014 Greece. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	11
39	Arsenic Occurrence and Fate in the Environment; A Geochemical Perspective. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	11
40	Long-memory traces in $$hbox {PM}_{10}$$ time series in Athens, Greece: investigation through DFA and R/S analysis. Meteorology and Atmospheric Physics, 2021, 133, 261-279.	0.9	11
41	Multiple radon survey in spa of Loutra Edipsou (Greece). Radiation Protection Dosimetry, 2004, 112, 251-258.	0.4	10
42	The effect of energy weighting on the SNR under the influence of non-ideal detectors in mammographic applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 260-263.	0.7	10
43	Comparative study using Monte Carlo methods of the radiation detection efficiency of LSO, LuAP, GSO and YAP scintillators for use in positron emission imaging (PET). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 350-354.	0.7	10
44	Evaluation of the GSO:Ce scintillator in the X-ray energy range from 40 to 140kV for possible applications in medical X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 560, 577-583.	0.7	10
45	A semi-empirical Monte Carlo based model of the Detector Optical Gain of Nuclear Imaging scintillators. Journal of Instrumentation, 2012, 7, P11021-P11021.	0.5	9
46	Long-Lasting Patterns in 3 kHz Electromagnetic Time Series after the ML = 6.6 Earthquake of 2018-10-25 near Zakynthos, Greece. Geosciences (Switzerland), 2020, 10, 235.	1.0	9
47	CO2 and Radon Emissions as Precursors of Seismic Activity. Earth Systems and Environment, 2021, 5, 655-666.	3.0	9
48	Long-lasting patterns of radon in groundwater at Panzhihua, China: Results from DFA, fractal dimensions and residual radon concentration. Geochemical Journal, 2019, 53, 341-358.	0.5	9
49	On fractal dimensions of soil radon gas time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2022, 227, 105775.	0.6	9
50	Traces of Long-Memory in Pre-Seismic MHz Electromagnetic Time Series-Part 1: Investigation Through the R/S Analysis and Time-Evolving Spectral Fractals. Journal of Earth Science & Climatic Change, 2016, 7, .	0.2	8
51	Earthquake precursory signatures in electromagnetic radiation measurements in terms of day-to-day fractal spectral exponent variation: analysis of the eastern Aegean 13/04/2017â€“20/07/2017 seismic activity. Journal of Seismology, 2018, 22, 1499-1513.	0.6	8
52	Fluctuation Dynamics of Radon in Groundwater Prior to the Gansu Earthquake, China (22 July 2013:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	8
53	Preliminary background indoor EMF measurements in Greece. Physica Medica, 2015, 31, 808-816.	0.4	7
54	Imaging properties of cerium doped Yttrium Aluminum Oxide (YAP:Ce) powder scintillating screens under X-ray excitation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 210-214.	0.7	6

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55	Factors Affecting Indoor Radon Concentrations of Greek Dwellings through Multivariate Statistics - First Approach. , 2014, 4, .		6
56	Spatiotemporal Evaluation of PM10 Concentrations within the Greater Athens Area, Greece. Trends, Variability and Analysis of a 19 Years Data Series. Environments - MDPI, 2020, 7, 85.	1.5	6
57	Stochastic and Self-Organisation Patterns in a 17-Year PM10 Time Series in Athens, Greece. Entropy, 2021, 23, 307.	1.1	5
58	A GATE Simulation Study of the Siemens Biograph DUO PET/CT System. Open Journal of Radiology, 2013, 03, 56-65.	0.1	5
59	Investigation of radiation absorption and X-ray fluorescence properties of medical imaging scintillators by Monte Carlo methods. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 821-832.	0.7	4
60	Monte Carlo validation in the diagnostic radiology range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 267-269.	0.7	4
61	Antimicrobial and Free Radical Scavenging Activities of Basil (Ocimum basilicum) Essential Oil Isolated from Five Plant Varieties Growing in Greece. Journal of Nutrition & Food Sciences, 2014, 05, .	1.0	4
62	Effect of the Concentration on the X-ray Luminescence Efficiency of a Cadmium Selenide/Zinc Sulfide (CdSe/ZnS) Quantum Dot Nanoparticle Solution. Journal of Physics: Conference Series, 2015, 637, 012031.	0.3	4
63	Fractal Analysis of Pre-Seismic Electromagnetic and Radon Precursors: A Systematic Approach. Journal of Earth Science & Climatic Change, 2016, 7, .	0.2	4
64	Preliminary survey of outdoor gamma dose rates in Lesvos Island (Greece). Radiation Protection Dosimetry, 2005, 113, 336-341.	0.4	3
65	Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 270-273.	0.7	3
66	Dosimetry modelling of transient radon and progeny concentration peaks: results from in situ measurements in Ikaria spas, Greece. Environmental Sciences: Processes and Impacts, 2013, 15, 1216.	1.7	3
67	How Safe is the Environmental Electromagnetic Radiation?. , 2014, 4, .		3
68	Hurst Exponent Analysis of Indoor Radon Profiles of Greek Apartment Dwellings. , 2014, 4, .		3
69	GATE Simulation of the Biograph 2 PET/CT Scanner. Journal of Nuclear Medicine & Radiation Therapy, 2014, 06, .	0.2	3
70	Assessment of the Contrast to Noise Ratio in PET Scanners with Monte Carlo Methods. Journal of Physics: Conference Series, 2015, 637, 012019.	0.3	3
71	Management and Optimisation of the Dose in Computed Tomography via a Dose Tracking Software. OMICS Journal of Radiology, 2016, 5, .	0.0	3
72	Modelling of Indoor Air Quality of Greek Apartments Using CONTAM(W) Software. , 2015, 05, .		3

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73	Identifying Long-Memory Trends in Pre-Seismic MHz Disturbances through Support Vector Machines. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	2
74	Fractal Analysis, Information-Theoretic Similarities and SVM Classification for Multichannel, Multi-Frequency Pre-Seismic Electromagnetic Measurements. Journal of Earth Science & Climatic Change, 2016, 7, .	0.2	2
75	Preliminary study of two high radon areas in Greece. Radioactivity in the Environment, 2005, 7, 431-437.	0.2	1
76	Luminescence efficiency of Lu2SiO5:Ce (LSO) powder scintillator for X-ray medical radiography applications. , 2006, , .		1
77	Investigation of luminescence emission properties of (Lu,Y)2SiO5:Ce (LYSO:Ce) and (Lu, Y) AlO3:Ce (LuYAP:Ce) single crystal scintillators under x-ray exposure for use in medical imaging. , 2006, , .		1
78	Influence of Iterative Reconstruction Algorithms on PET Image Resolution. Journal of Physics: Conference Series, 2015, 637, 012011.	0.3	1
79	Long-Memory and Fractal Traces in KHz-MHz Electromagnetic Time Series Prior to the ML=6.1, 12/6/2007 Lesvos, Greece Earthquake: Investigation through DFA and Time-Evolving Spectral Fractals. Journal of Earth Science & Climatic Change, 2018, 09, .	0.2	1
80	Fractal Dimension Analysis Applied to Soil CO2 Fluxes in Campotostoâ€™s Seismic Area, Central Italy. Geosciences (Switzerland), 2020, 10, 233.	1.0	1
81	Monte Carlo Computational Software and Methods in Radiation Dosimetry. Annals of Emerging Technologies in Computing, 2021, 5, 36-51.	1.0	1
82	The Electromagnetic Pollution of Wireless Electronic Equipment in Areas with High Human Accumulation. Journal of Civil & Environmental Engineering, 2014, 04, .	0.1	1
83	Monte-Carlo Modelling and Experimental Study of Radon and Progeny Radiation Detectors for Open Environment. , 2015, , 787-801.		1
84	Early postexercise thalliumâ€201 reinjection after sublingual nitroglycerin augmentation: Effects on detection of myocardial ischemia and/or viability. Clinical Cardiology, 1998, 21, 419-426.	0.7	0
85	Thallium-201 for Detection of Myocardial Viability: Comparison of Early Postexercise Reinjection and Imaging with 4 and 18â€“24 Hours Redistribution Imaging. Cardiology, 1998, 90, 137-144.	0.6	0
86	Luminescence Properties of LuYSiO/sub 5/:Ce, Gd/sub 2/SiO/sub 5:Ce, and CsI:Tl Single Crystal Scintillators under X-Ray Excitation, for Use in Medical Imaging Systems. , 0, , .		0
87	Radon exposure of the Greek population. Radioactivity in the Environment, 2005, 7, 425-430.	0.2	0
88	EMR background measurements in a small town. Physica Medica, 2014, 30, e92.	0.4	0
89	Radon entrance and its daily movement into a closed detached of three level house. Physica Medica, 2014, 30, e91.	0.4	0
90	Multivariate statistical analysis of factors related to mean annual indoor radon concentrations of Greek dwellings. Physica Medica, 2014, 30, e90-e91.	0.4	0

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91	Preliminary study of distribution of indoor EMR in Greek dwellings. Physica Medica, 2014, 30, e91-e92.	0.4	0
92	Modeling of radon and progeny concentration peaks in thermal spas: results from the semi-empirical approach from several spas in Greece. Physica Medica, 2014, 30, e91.	0.4	0
93	CT Examination Data Analysis as an Effective Method to Stimulate Patient Dose Reduction. OMICS Journal of Radiology, 2016, 05, .	0.0	0
94	Luminescence Efficiency of Cadmium Selenide/Zinc Sulfide (CdSe/ZnS) Quantum Dot Nanoparticle Sensors Under X-Ray Excitation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 53-59.	0.2	0
95	Efficiency of Luminescence of (Lu,Gd)2SiO5:Ce (LGSO:Ce) Crystal Sensory Material in the X-Ray Imaging Range. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 81-90.	0.2	0
96	Patient and Staff Radiation Exposure during Endoscopic Retrograde Cholangio-Pancreatography: Eight Years of Dose Monitoring. OMICS Journal of Radiology, 2017, 06, .	0.0	0
97	Interventional Cardiology-Eight Years of Practice: Do Increased Experience and Technological Evolution Lead to Undertaking More Difficult Cases and Higher Patient Doses?. OMICS Journal of Radiology, 2017, 06, .	0.0	0
98	Long-Memory and Fractal Trends in Variations of Environmental Radon in Soil: Results from Measurements in Lesvos Island in Greece. Journal of Earth Science & Climatic Change, 2018, 09, .	0.2	0
99	Effect of the Operation Mode and Distance on the Electromagnetic Radiation Emitted by Mobile Phone Devices in Greece: A Pilot Study. Journal of Civil & Environmental Engineering, 2018, 08, .	0.1	0
100	Response of CR-39 Polymer Radon-Sensors via Monte-Carlo Modelling and Measurements. , 2014, 4, .		0
101	Biogeochemical Cycling of Nutrients and Thermodynamic Aspects. Journal of Thermodynamics & Catalysis, 2015, 06, .	0.2	0
102	Pilot Electromagnetic Field Measurements in Certain Areas in Greece. , 2015, 5, .		0
103	Indoor Air Pollution: The Case of Ozone in Three Regions in Greece. , 2015, 05, .		0