

# Constantin Daniel Negut

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

430  
citations

687220

13  
h-index

752573

20  
g-index

43  
all docs

43  
docs citations

43  
times ranked

393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time analysis of arc-induced Long Period Gratings under gamma irradiation. Scientific Reports, 2017, 7, 43389.	1.6	35
2	A new approach: Synthesis of cobalt aluminate nanoparticles using tamarind fruit extract. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 246, 42-48.	1.7	30
3	Establishing the irradiation dose for paper decontamination. Radiation Physics and Chemistry, 2012, 81, 1045-1050.	1.4	29
4	Defects induced by gamma irradiation in historical pigments. Journal of Cultural Heritage, 2012, 13, 397-403.	1.5	29
5	Effects of gamma radiation on perfluorinated polymer optical fibers. Optical Materials, 2016, 58, 226-233.	1.7	29
6	Comparative Investigation of Gamma Radiation Effects on Long Period Gratings and Optical Power in Different Optical Fibers. Journal of Lightwave Technology, 2019, 37, 4560-4566.	2.7	26
7	Long Period Gratings in unconventional fibers for possible use as radiation dosimeter in high-dose applications. Sensors and Actuators A: Physical, 2018, 271, 223-229.	2.0	25
8	Thermal desorption/gas chromatography/mass spectrometry approach for characterization of the volatile fraction from amber specimens: A possibility of tracking geological origins. Journal of Chromatography A, 2010, 1217, 1977-1987.	1.8	19
9	Comparative study of long period and fiber Bragg gratings under gamma irradiation. Sensors and Actuators A: Physical, 2015, 233, 295-301.	2.0	19
10	Synthesis and Structural Investigation of New Bio-Relevant Complexes of Lanthanides with 5-Hydroxyflavone: DNA Binding and Protein Interaction Studies. Molecules, 2016, 21, 1737.	1.7	19
11	Standardization of $^{68}\text{(Ge+Ga)}$ . Applied Radiation and Isotopes, 2004, 60, 429-431.	0.7	17
12	Online Tests of an Optical Fiber Long-Period Grating Subjected to Gamma Irradiation. IEEE Photonics Journal, 2014, 6, 1-9.	1.0	17
13	$^{137}\text{Cs}$ irradiation induced effects on bismuth active centres and related photoluminescence properties of Bi/Er co-doped optical fibres. Scientific Reports, 2016, 6, 29827.	1.6	17
14	Irradiation effects on canvas oil painting: Spectroscopic observations. Radiation Physics and Chemistry, 2012, 81, 1595-1599.	1.4	14
15	Spectroscopic evaluation of painted layer structural changes induced by gamma radiation in experimental models. Radiation Physics and Chemistry, 2012, 81, 160-167.	1.4	12
16	Radiation processing for cultural heritage preservation – Romanian experience. Nukleonika, 2017, 62, 253-260.	0.3	10
17	EPR investigation of some desiccated Ascomycota and Basidiomycota gamma-irradiated mushrooms. Radiation Physics and Chemistry, 2010, 79, 1275-1278.	1.4	9
18	Effects of gamma irradiation on the colour of pigments. Proceedings of SPIE, 2007, , .	0.8	8

#	ARTICLE	IF	CITATIONS
19	EPR studies of the free radical kinetics in $\hat{I}^3$ -rays irradiated Pleurotus ostreatus oyster mushrooms. Food Research International, 2011, 44, 1008-1011.	2.9	7
20	Detection of irradiated frog (Limnonectes macrodon) leg bones by multifrequency EPR spectroscopy. Food Chemistry, 2012, 135, 2313-2319.	4.2	7
21	Gamma Radiation-Induced Effects over an Optical Fiber Laser: Towards New Sensing Applications. Sensors, 2020, 20, 3017.	2.1	7
22	Low Doses of Gamma Irradiation Stimulate Synthesis of Bioactive Compounds with Antioxidant Activity in Fomes fomentarius Living Mycelium. Applied Sciences (Switzerland), 2021, 11, 4236.	1.3	6
23	Comparative Study of $\hat{I}^3$ - and e-Radiation-Induced Effects on FBGs Using Different Femtosecond Laser Inscription Methods. Sensors, 2021, 21, 8379.	2.1	6
24	Irradiation free radicals in freshwater crayfish Astacus leptodactylus Esch investigated by EPR spectroscopy. Radiation Physics and Chemistry, 2017, 133, 45-51.	1.4	5
25	Gamma-rays induced color centers in Pb <sup>2+</sup> doped CaF <sub>2</sub> crystals. Radiation Physics and Chemistry, 2018, 153, 70-78.	1.4	4
26	On-line tests of an optical fiber long-period grating subjected to gamma irradiation. , 2014, , .		3
27	A New Setup for Real-Time Investigations of Optical Fiber Sensors Subjected to Gamma-Rays: Case Study on Long Period Gratings. Sensors, 2020, 20, 4129.	2.1	3
28	Gamma radiation effects on Long Period Gratings and transmitted power in different optical fibers: towards dosimetry applications. , 2018, , .		3
29	Gamma radiation influence on silica optical fibers measured by optical backscatter reflectometry and Brillouin sensing technique. Proceedings of SPIE, 2016, , .	0.8	2
30	Mn <sup>2+</sup> EPR spectroscopy for the provenance study of natural carbonates. Experimental Methods in the Physical Sciences, 2019, 50, 1-19.	0.1	2
31	Ionizing Radiation Effect upon Er/Yb Co-Doped Fibre Made by In-Situ Nano Solution Doping. Journal of Lightwave Technology, 2020, 38, 6334-6344.	2.7	2
32	Enhanced Gamma Radiation Effect in Bi/Er Co-Doped Optical Fibre by Co-Doping Yb. , 2016, , .		2
33	Perfluorinated polymer optical fiber for gamma radiation monitoring. Proceedings of SPIE, 2016, , .	0.8	1
34	ESR Standard Methods for Detection of Irradiated Food. , 2017, , 1-16.		1
35	Optical and THz Evaluation of Components for Gas Sensing Spectroscopy in Hazardous Environments. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 63-68.	0.2	1
36	Quantitative Measurement of $\hat{I}^3$ -Ray and e-Beam Effects on Fiber Rayleigh Scattering Coefficient. Photonic Sensors, 2021, 11, 298.	2.5	1

#	ARTICLE	IF	CITATIONS
37	The use of gamma irradiation to stimulate bioactive compound synthesis in <i>Inonotus obliquus</i> submerged cultures. Nukleonika, 2021, 66, 83-90.	0.3	1
38	Ionising Radiation Induced Effects on Bismuth/Erbium Co-Doped Optical Fibres. , 2018, , .		1
39	Response of long period gratings to gamma and neutron-gamma radiations. , 2019, , .		1
40	Long period grating response to gamma radiation. Proceedings of SPIE, 2016, , .	0.8	0
41	Assessment of mid-IR components for spaceborne instrumentation: Radiation tests. , 2016, , .		0
42	Online monitoring of gamma irradiated perfluorinated polymer optical fiber. Proceedings of SPIE, 2016, , .	0.8	0
43	Chapter 19. Qualification and Certification of Ionizing Radiation Facilities. Food Chemistry, Function and Analysis, 2017, , 383-396.	0.1	0