

Antonino Alessi

List of Publications by Year in descending order

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1407
citing authors

#	ARTICLE	IF	CITATIONS
1	O ₂ Loaded Germanosilicate Optical Fibers: Experimental In Situ Investigation and Ab Initio Simulation Study of GLPC Evolution under Irradiation. Applied Sciences (Switzerland), 2022, 12, 3916.	2.5	0
2	Ultraviolet-visible light-induced solarisation in silica-based optical fibres for indoor solar applications. Journal of Non-Crystalline Solids, 2021, 552, 120458.	3.1	3
3	Near-IR Radiation-Induced Attenuation of Aluminosilicate Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000807.	1.8	8
4	Characterization of Radiation-Resistant Multimode Optical Fibers for Large-Scale Procurement. IEEE Transactions on Nuclear Science, 2021, 68, 1407-1413.	2.0	2
5	Transient and Steady-State Radiation Response of Phosphosilicate Optical Fibers: Influence of H ₂ Loading. IEEE Transactions on Nuclear Science, 2020, 67, 289-295.	2.0	7
6	Performances of Radiation-Hardened Single-Ended Raman Distributed Temperature Sensors Using Commercially Available Fibers. IEEE Transactions on Nuclear Science, 2020, 67, 305-311.	2.0	10
7	Infrared radiation induced attenuation of radiation sensitive optical fibers: influence of temperature and modal propagation. Optical Fiber Technology, 2020, 55, 102166.	2.7	12
8	Steady-State X-Ray Radiation-Induced Attenuation in Canonical Optical Fibers. IEEE Transactions on Nuclear Science, 2020, 67, 1650-1657.	2.0	9
9	In-situ regeneration of P-doped optical fiber dosimeter. Optics Letters, 2020, 45, 5201.	3.3	4
10	Study of silica-based intrinsically emitting nanoparticles produced by an excimer laser. Beilstein Journal of Nanotechnology, 2019, 10, 211-221.	2.8	1
11	v-P2O ₅ micro-clustering in P-doped silica studied by a first-principles Raman investigation. Scientific Reports, 2019, 9, 7126.	3.3	7
12	Qualification and Calibration of Single-Mode Phosphosilicate Optical Fiber for Dosimetry at CERN. Journal of Lightwave Technology, 2019, 37, 4643-4649.	4.6	62
13	Overview of radiation induced point defects in silica-based optical fibers. Reviews in Physics, 2019, 4, 100032.	8.9	208
14	The Relevance of Point Defects in Studying Silica-Based Materials from Bulk to Nanosystems. Electronics (Switzerland), 2019, 8, 1378.	3.1	3
15	Radiation Effects on Aluminosilicate Optical Fibers: Spectral Investigations From the Ultraviolet to Near-Infrared Domains. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800485.	1.8	11
16	Combined Temperature Radiation Effects and Influence of Drawing Conditions on Phosphorous-Doped Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800553.	1.8	13
17	X-Rays, γ -Rays, and Proton Beam Monitoring With Multimode Nitrogen-Doped Optical Fiber. IEEE Transactions on Nuclear Science, 2019, 66, 306-311.	2.0	11
18	Dosimetry Mapping of Mixed-Field Radiation Environment Through Combined Distributed Optical Fiber Sensing and FLUKA Simulation. IEEE Transactions on Nuclear Science, 2019, 66, 299-305.	2.0	18

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19	Pulsed X-ray Radiation Responses of Solarization-Resistant Optical Fibers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800487.	1.8	7
20	Influence of Self-Trapped Holes on the Responses of Fluorine-Doped Multimode Optical Fibers Exposed to Low Fluences of Protons. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800547.	1.8	2
21	Near-IR- and UV-femtosecond laser waveguide inscription in silica glasses. <i>Optical Materials Express</i> , 2019, 9, 4624.	3.0	15
22	Radiation-Induced Attenuation in Single-Mode Phosphosilicate Optical Fibers for Radiation Detection. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 126-131.	2.0	16
23	Confocal-micro-luminescence characterization of femtosecond laser irradiated silica and borosilicate glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 435, 251-257.	1.4	2
24	Distributed Optical Fiber Radiation Sensing in the Proton Synchrotron Booster at CERN. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1639-1644.	2.0	38
25	Spectral properties and lifetime of green emission in γ -ray irradiated bismuth-doped silica photonic crystal fibers. <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 100-104.	3.1	1
26	Ni-Ion and γ -Ray Irradiated Silica-Based Glasses Characterized by Luminescence and Raman Spectroscopies. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1604-1611.	2.0	0
27	Structured blue emission in Bismuth doped fibers. <i>Optical Materials</i> , 2018, 84, 663-667.	3.6	0
28	Optical absorption spectra of P defects in vitreous silica. <i>Optical Materials Express</i> , 2018, 8, 385.	3.0	9
29	Implementation of Optical Fiber based Dosimetry at CERN. , 2018, , .		2
30	Correlations between Structural and Optical Properties of Peroxy Bridges from First Principles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4002-4010.	3.1	9
31	Study of point defects in as-drawn and irradiated Ge-doped optical fibers using cathodoluminescence. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 169, 012006.	0.6	1
32	Irradiation temperature effects on the induced point defects in Ge-doped optical fibers.. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 169, 012008.	0.6	0
33	Coupled irradiation-temperature effects on induced point defects in germanosilicate optical fibers. <i>Journal of Materials Science</i> , 2017, 52, 10697-10708.	3.7	3
34	Photoactivated processes in optical fibers: generation and conversion mechanisms of twofold coordinated Si and Ge atoms. <i>Nanotechnology</i> , 2017, 28, 195202.	2.6	15
35	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2054-2064.	5.5	32
36	Resonance Raman of oxygen dangling bonds in amorphous silicon dioxide. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 230-234.	2.5	7

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37	Radiation Hardened Architecture of a Single-Ended Raman-Based Distributed Temperature Sensor. IEEE Transactions on Nuclear Science, 2017, 64, 54-60.	2.0	12
38	Investigation by Raman Spectroscopy of the Decomposition Process of HKUST-1 upon Exposure to Air. Journal of Spectroscopy, 2016, 2016, 1-7.	1.3	56
39	Effect of irradiation temperature on the radiation induced attenuation of Ge-doped fibers. , 2016, , .		1
40	Ge-doped silica nanoparticles: production and characterisation. Optical Materials Express, 2016, 6, 2213.	3.0	4
41	Cathodoluminescence Characterization of Point Defects in Optical Fibers. IEEE Transactions on Nuclear Science, 2016, , 1-1.	2.0	6
42	Decomposition Process of Carboxylate MOF HKUST-1 Unveiled at the Atomic Scale Level. Journal of Physical Chemistry C, 2016, 120, 12879-12889.	3.1	99
43	Evidence of different red emissions in irradiated germanosilicate materials. Journal of Luminescence, 2016, 177, 127-132.	3.1	5
44	Cathodoluminescence investigation of Ge-point defects in silica-based optical fibers. Journal of Luminescence, 2016, 179, 1-7.	3.1	7
45	Irradiation temperature influence on the in-situ measured radiation induced attenuation of Ge-doped fibers. IEEE Transactions on Nuclear Science, 2016, , 1-1.	2.0	3
46	Investigation of point defects in silica-based optical fibers by cathodoluminescence. , 2016, , .		0
47	O ₂ -Loading Treatment of Ge-Doped Silica Fibers: A Radiation Hardening Process. Journal of Lightwave Technology, 2016, 34, 2311-2316.	4.6	16
48	Radiation Response of Ce-Codoped Germanosilicate and Phosphosilicate Optical Fibers. IEEE Transactions on Nuclear Science, 2016, 63, 2058-2064.	2.0	27
49	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	5.5	39
50	Gamma and x-ray irradiation effects on different Ge and Ge/F doped optical fibers. Journal of Applied Physics, 2015, 118, .	2.5	17
51	²⁹ Si irradiation effects on silica nanoparticles. IOP Conference Series: Materials Science and Engineering, 2015, 80, 012011.	0.6	1
52	Silica nanoparticle core structure examined by the ²⁹ Si center 29Si strong hyperfine interaction. Journal of Non-Crystalline Solids, 2015, 423-424, 41-44.	3.1	3
53	Cerium Codoping Effect on the Radiation Response of Germanosilicate and Phosphosilicate Multimode Optical Fibers. , 2015, , .		1
54	Effects of Pressure, Thermal Treatment, and O ₂ Loading in MCM41, MSU-H, and MSU-F Mesoporous Silica Systems Probed by Raman Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 27434-27441.	3.1	5

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55	Radiation Induced Attenuation Kinetics in Pure-Silica-Core Optical Fibers during Successive Irradiations. , 2015, , .		0
56	Structure of the FeBTC Metal-Organic Framework: A Model Based on the Local Environment Study. Journal of Physical Chemistry C, 2015, 119, 7826-7830.	3.1	59
57	Diffusion and outgassing of O ₂ in amorphous SiO ₂ silica nanoparticles with specific surface properties. , 2014, , .		0
58	Aging of MCM41, MSU-H and MSU-F mesoporous systems investigated through the Raman spectroscopy. , 2014, , .		0
59	X-ray irradiation effects on fluorine-doped germanosilicate optical fibers. Optical Materials Express, 2014, 4, 1683.	3.0	28
60	Properties of HO ₂ radicals induced by ¹³⁷ Cs-ray irradiation in silica nanoparticles. Journal of Non-Crystalline Solids, 2014, 405, 116-123.	3.1	0
61	Isolation of the CH ₃ ˙ rotor in a thermally stable inert matrix: first characterization of the gradual transition from classical to quantum behaviour at low temperatures. Physical Chemistry Chemical Physics, 2014, 16, 13360-13366.	2.8	8
62	Thermally induced structural modifications and O ₂ trapping in highly porous silica nanoparticles. Materials Chemistry and Physics, 2014, 148, 956-963.	4.0	3
63	Alpha and deuteron irradiation effects on silica nanoparticles. Journal of Materials Science, 2014, 49, 6475-6484.	3.7	4
64	Coupled Theoretical and Experimental Studies for the Radiation Hardening of Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2014, 61, 1819-1825.	2.0	23
65	EPR on Radiation-Induced Defects in SiO ₂ . , 2014, , 255-295.		13
66	Structural properties of core and surface of silica nanoparticles investigated by Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 810-816.	2.5	51
67	Influence of fluorine on the fiber resistance studied through the nonbridging oxygen hole center related luminescence. Journal of Applied Physics, 2013, 113, 193107.	2.5	12
68	Entrapping of O ₂ Molecules in Nanostructured Silica Probed by Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 2616-2622.	3.1	19
69	Interstitial O ₂ distribution in amorphous SiO ₂ nanoparticles determined by Raman and photoluminescence spectroscopy. Journal of Applied Physics, 2013, 114, .	2.5	25
70	Raman and IR investigation of silica nanoparticles structure. Journal of Non-Crystalline Solids, 2013, 362, 20-24.	3.1	64
71	Optical and morphological properties of infrared emitting functionalized silica nanoparticles. Materials Chemistry and Physics, 2013, 142, 763-769.	4.0	6
72	Coupled theoretical and experimental studies for the radiation hardening of silica-based optical fibers. , 2013, , .		1

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73	Phosphorous doping and drawing effects on the Raman spectroscopic properties of O = P bond in silica-based fiber and preform. <i>Optical Materials Express</i> , 2012, 2, 1391.	3.0	7
74	Influence of the Manufacturing Process on the Radiation Sensitivity of Fluorine-Doped Silica-Based Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 760-766.	2.0	17
75	Transient Radiation Responses of Optical Fibers: Influence of MCVD Process Parameters. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2894-2901.	2.0	36
76	Influence of Drawing Conditions on the Properties and Radiation Sensitivities of Pure-Silica-Core Optical Fibers. <i>Journal of Lightwave Technology</i> , 2012, 30, 1726-1732.	4.6	46
77	Influence of the manufacturing process on the radiation sensitivity of fluorine-doped silica-based optical fibers. , 2011, , .		0
78	Evolution of Photo-induced defects in Ge-doped fiber/preform: influence of the drawing. <i>Optics Express</i> , 2011, 19, 11680.	3.4	42
79	Raman investigation of the drawing effects on Ge-doped fibers. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 24-27.	3.1	9
80	X-ray irradiation effects on a multistep Ge-doped silica fiber produced using different drawing conditions. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1966-1970.	3.1	21
81	Influence of Ge doping level on the EPR signal of Ge(1), Ge(2) and E'Ge defects in Ge-doped silica. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1900-1903.	3.1	22
82	Micro-Raman investigation of X or $\hat{\Gamma}^3$ irradiated Ge doped fibers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 1346-1349.	1.4	9
83	Dependence of the emission properties of the germanium lone pair center on Ge doping of silica. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 015903.	1.8	13
84	Irradiation induced germanium lone pair centers in Ge-doped sol-gel SiO ₂ : Luminescence lifetime and temperature dependence. <i>Journal of Luminescence</i> , 2010, 130, 1866-1871.	3.1	2
85	Formation of optically active oxygen deficient centers in Ge-doped SiO ₂ by $\hat{\Gamma}^3$ - and $\hat{\Gamma}^2$ -ray irradiation. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 275-280.	3.1	16
86	Refractive index change dependence on Ge(1) defects in $\hat{\Gamma}^3$ -irradiated Ge-doped silica. <i>Physical Review B</i> , 2009, 80,	3.2	27
87	Comparison of $\hat{\Gamma}^3$ and $\hat{\Gamma}^2$ -ray irradiation effects in sol-gel Ge-doped SiO ₂ . , 2009, , .		0
88	Concentration growth and thermal stability of $\hat{\Gamma}^3$ -ray induced germanium lone pair center in Ge-doped sol-gel a-SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1050-1053.	3.1	5
89	Ge-doping dependence of gamma-ray induced germanium lone pair centers in Ge-doped silica. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2128-2131.	1.5	3
90	Effect of oxygen deficiency on the radiation sensitivity of sol-gel Ge-doped amorphous SiO ₂ . <i>European Physical Journal B</i> , 2008, 61, 25-31.	1.5	20

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91	Twofold co-ordinated Ge defects induced by gamma-ray irradiation in Ge-doped SiO ₂ . Optics Express, 2008, 16, 4895.	3.4	17