Youcef Ouerdane

List of Publications by Year
in descending order

328 papers	4,820 citations	147726 31 h-index	168321 53 g-index
332 all docs	332 docs citations	332 times ranked	2033 citing authors

#	Article	IF	Citations
1	Radiation Effects on Silica-Based Optical Fibers: Recent Advances and Future Challenges. IEEE Transactions on Nuclear Science, 2013, 60, 2015-2036.	1.2	366
2	Overview of radiation induced point defects in silica-based optical fibers. Reviews in Physics, 2019, 4, 100032.	4.4	208
3	Recent advances in radiation-hardened fiber-based technologies for space applications. Journal of Optics (United Kingdom), 2018, 20, 093001.	1.0	153
4	Sol-gel derived ionic copper-doped microstructured optical fiber: a potential selective ultraviolet radiation dosimeter. Optics Express, 2012, 20, 29751.	1.7	129
5	Radiation hardening techniques for Er/Yb doped optical fibers and amplifiers for space application. Optics Express, 2012, 20, 8457.	1.7	99
6	Radiation Effects on Silica-Based Preforms and Optical Fibersâ€”I: Experimental Study With Canonical Samples. IEEE Transactions on Nuclear Science, 2008, 55, 3473-3482.	1.2	85
7	Gamma-rays and pulsed X-ray radiation responses of nitrogen-, germanium-doped and pure silica core optical fibers. Nuclear Instruments & Methods in Physics Research B, 2004, 215, 187-195.	0.6	78
8	Ultrafast laser induced electronic and structural modifications in bulk fused silica. Journal of Applied Physics, 2013, 114, .	1.1	76
9	Combined High Dose and Temperature Radiation Effects on Multimode Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2013, 60, 4305-4313.	1.2	71
10	Proton- and Gamma-Induced Effects on Erbium-Doped Optical Fibers. IEEE Transactions on Nuclear Science, 2007, 54, 2426-2434.	1.2	68
11	Feasibility of radiation dosimetry with phosphorus-doped optical fibers in the ultraviolet and visible domain. Journal of Non-Crystalline Solids, 2011, 357, 1871-1874.	1.5	66
12	Radiation Effects on Ytterbium- and Ytterbium/Erbium-Doped Double-Clad Optical Fibers. IEEE Transactions on Nuclear Science, 2009, 56, 3293-3299.	1.2	60
13	Radiation-hard erbium optical fiber and fiber amplifier for both low- and high-dose space missions. Optics Letters, 2014, 39, 2541.	1.7	60
14	<tex>$gamma$</tex>-Rays and Pulsed X-Ray Radiation Responses of Germanosilicate Single-Mode Optical Fibers: Influence of Cladding Codopants. Journal of Lightwave Technology, 2004, 22, 1915-1922.	2.7	58
15	Radiation tolerant fiber Bragg gratings for high temperature monitoring at MGy dose levels. Optics Letters, 2014, 39, 5313.	1.7	54
16	High Î³-ray dose radiation effects on the performances of Brillouin scattering based optical fiber sensors. Optics Express, 2012, 20, 26978.	1.7	53
17	Influence of Drawing Conditions on the Properties and Radiation Sensitivities of Pure-Silica-Core Optical Fibers. Journal of Lightwave Technology, 2012, 30, 1726-1732.	2.7	46
18	Nanosize structural modifications with polarization functions in ultrafast laser irradiated bulk fused silica. Optics Express, 2010, 18, 24809.	1.7	45

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19	Cooperative luminescence in an ytterbium-doped silica fibre. Optics Communications, 1994, 111, 310-316.	1.0	43
20	Evolution of Photo-induced defects in Ge-doped fiber/preform: influence of the drawing. Optics Express, 2011, 19, 11680.	1.7	42
21	Real time monitoring of water level and temperature in storage fuel pools through optical fibre sensors. Scientific Reports, 2017, 7, 8766.	1.6	40
22	Multielectron capture inKr18+collisions with Kr and Ar at low energies by Rydberg transition spectroscopy. Physical Review Letters, 1990, 64, 2633-2636.	2.9	39
23	Influence of neutron and gamma-ray irradiations on rad-hard optical fiber. Optical Materials Express, 2015, 5, 898.	1.6	39
24	Development of a Temperature Distributed Monitoring System Based On Raman Scattering in Harsh Environment. IEEE Transactions on Nuclear Science, 2014, 61, 3315-3322.	1.2	38
25	Effects of stabilizer ratio on photoluminescence properties of sol-gel ZnO nano-structured thin films. Journal of Luminescence, 2015, 158, 32-37.	1.5	37
26	Transient Radiation Responses of Optical Fibers: Influence of MCVD Process Parameters. IEEE Transactions on Nuclear Science, 2012, 59, 2894-2901.	1.2	36
27	Vulnerability analysis of optical fibers for laser megajoule facility: preliminary studies. IEEE Transactions on Nuclear Science, 2005, 52, 1497-1503.	1.2	33
28	Vulnerability of OFDR-based distributed sensors to high Î³-ray doses. Optics Express, 2015, 23, 18997.	1.7	33
29	Franceâ€™s State of the Art Distributed Optical Fibre Sensors Qualified for the Monitoring of the French Underground Repository for High Level and Intermediate Level Long Lived Radioactive Wastes. Sensors, 2017, 17, 1377.	2.1	33
30	Radiation Effects on Silica-Based Preforms and Optical Fibers-II: Coupling <i>Ab initio</i> Simulations and Experiments. IEEE Transactions on Nuclear Science, 2008, 55, 3508-3514.	1.2	32
31	Design of Radiation-Hardened Rare-Earth Doped Amplifiers Through a Coupled Experiment/Simulation Approach. Journal of Lightwave Technology, 2013, 31, 1247-1254.	2.7	32
32	Influence of Pb doping on the structural, morphological and optical properties of solâ€“gel ZnO thin films. Materials Science in Semiconductor Processing, 2016, 41, 382-389.	1.9	31
33	Study of plasma expansion induced by femtosecond pulsed laser ablation and deposition of diamond-like carbon films. Applied Surface Science, 2003, 208-209, 553-560.	3.1	30
34	Discriminated measures of strain and temperature in metallic specimen with embedded superimposed long and short fibre Bragg gratings. Measurement Science and Technology, 2011, 22, 015202.	1.4	30
35	Radiation effects on optical frequency domain reflectometry fiber-based sensor. Optics Letters, 2015, 40, 4571.	1.7	30
36	Ge(2), Ge(1) and Ge-Eâ€² centers in irradiated Ge-doped silica: a first-principles EPR study. Optical Materials Express, 2015, 5, 1054.	1.6	29

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37	Transient radiation responses of silica-based optical fibers: Influence of modified chemical-vapor deposition process parameters. Journal of Applied Physics, 2006, 99, 023104.	1.1	28
38	X-ray irradiation effects on fluorine-doped germanosilicate optical fibers. Optical Materials Express, 2014, 4, 1683.	1.6	28
39	Optical properties of phosphorus-related point defects in silica fiber preforms. Physical Review B, 2009, 80, .	1.1	27
40	Radiation Response of Ce-Codoped Germanosilicate and Phosphosilicate Optical Fibers. IEEE Transactions on Nuclear Science, 2016, 63, 2058-2064.	1.2	27
41	Optimized radiation-hardened erbium doped fiber amplifiers for long space missions. Journal of Applied Physics, 2017, 121, .	1.1	27
42	Radiation-Hardened Fiber Bragg Grating Based Sensors for Harsh Environments. IEEE Transactions on Nuclear Science, 2017, 64, 68-73.	1.2	27
43	Spatial distribution of the red luminescence in pristine, Î³ rays and ultraviolet-irradiated multimode optical fibers. Applied Physics Letters, 2004, 84, 4215-4217.	1.5	26
44	EPR parameters of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>E</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mm in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>v</mml:mi><mml:mo>âˆ’</mml:mo><mml:msub><mml:mrow><mml:m mathvariant="normal">SiO</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>from first-principles calculations. Physical Review B, 2014, 90, .	1.1	26
45	Cerium-activated solâ€“gel silica glasses for radiation dosimetry in harsh environment. Materials Research Express, 2016, 3, 046201.	0.8	26
46	Beam-foil spectroscopy in the extreme UV of highly ionized silicon Si XI and the isoelectronic ions Al X, S XIII and Ar XV. Physica Scripta, 1994, 49, 571-577.	1.2	25
47	True double capture in collisions of bare and hydrogenlike ions with rare-gas atoms (Z=7â€“13). Physical Review A, 1994, 50, 2322-2326.	1.0	25
48	Transient radiation-induced effects on solid core microstructured optical fibers. Optics Express, 2011, 19, 21760.	1.7	25
49	Interstitial O2 distribution in amorphous SiO2 nanoparticles determined by Raman and photoluminescence spectroscopy. Journal of Applied Physics, 2013, 114, .	1.1	25
50	Photoinscription domains for ultrafast laser writing of refractive index changes in BK7 borosilicate crown optical glass. Optical Materials Express, 2013, 3, 67.	1.6	25
51	Radiation hardened high-power Er³⁺/Yb³⁺-codoped fiber amplifiers for free-space optical communications. Optics Letters, 2018, 43, 3049.	1.7	25
52	Novel Gd3+-doped silica-based optical fiber material for dosimetry in proton therapy. Scientific Reports, 2019, 9, 16376.	1.6	25
53	Liquid Resin Infusion process monitoring with superimposed Fibre Bragg Grating sensor. Polymer Testing, 2012, 31, 1045-1052.	2.3	24
54	Investigation of the writing mechanism of electric-arc-induced long-period fiber gratings. Applied Optics, 2003, 42, 3776.	2.1	23

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55	Optimization of the Design of High Power <formula formulatype="inline"><tex Notation="TeX"> $hbox{Er}^{3+}/hbox{Yb}^{3+}$</tex></formula>-Codoped Fiber Amplifiers for Space Missions by Means of Particle Swarm Approach. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 484-491.	1.9	23
56	Coupled Theoretical and Experimental Studies for the Radiation Hardening of Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2014, 61, 1819-1825.	1.2	23
57	Oxygen deficient centers in silica: optical properties within many-body perturbation theory. Journal of Physics Condensed Matter, 2013, 25, 335502.	0.7	22
58	Radiation Vulnerability of Fiber Bragg Gratings in Harsh Environments. Journal of Lightwave Technology, 2015, 33, 2646-2651.	2.7	22
59	Solâ€"gel derived copper-doped silica glass as a sensitive material for X-ray beam dosimetry. Optical Materials, 2016, 51, 104-109.	1.7	22
60	Irradiation induced defects in fluorine doped silica. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2918-2922.	0.6	21
61	Radiation effects on Yb- and Er/Yb-doped optical fibers: A micro-luminescence study. Journal of Non-Crystalline Solids, 2009, 355, 1085-1088.	1.5	21
62	X-ray irradiation effects on a multistep Ge-doped silica fiber produced using different drawing conditions. Journal of Non-Crystalline Solids, 2011, 357, 1966-1970.	1.5	21
63	Integration of Optical Fibers in Megajoule Class Laser Environments: Advantages and Limitations. IEEE Transactions on Nuclear Science, 2012, 59, 1317-1322.	1.2	21
64	Neutron Irradiation Effects on the Structural Properties of KU1, KS-4V and I301 Silica Glasses. IEEE Transactions on Nuclear Science, 2014, 61, 1522-1530.	1.2	21
65	Stabilized double-electron capture inKrq+(q=17,18)â€"Kr collisions. Physical Review A, 1993, 48, 1171-1175.	1.0	20
66	Properties of phosphorus-related defects induced by Î³-rays and pulsed X-ray irradiation in germanosilicate optical fibers. Journal of Non-Crystalline Solids, 2003, 322, 78-83.	1.5	20
67	Influence of the drawing process on the defect generation in multistep-index germanium-doped optical fibers. Optics Letters, 2009, 34, 2282.	1.7	20
68	Spectroscopic studies of the origin of radiation-induced degradation in phosphorus-doped optical fibers and preforms. Journal of Applied Physics, 2010, 108, .	1.1	20
69	Potential of Copper- and Cerium-Doped Optical Fiber Materials for Proton Beam Monitoring. IEEE Transactions on Nuclear Science, 2017, 64, 567-573.	1.2	20
70	Radioluminescence and Optically Stimulated Luminescence Responses of a Cerium-Doped Sol-Gel Silica Glass Under X-Ray Beam Irradiation. IEEE Transactions on Nuclear Science, 2018, 65, 1591-1597.	1.2	20
71	Growth and Decay Kinetics of Radiation-Induced Attenuation in Bulk Optical Materials. IEEE Transactions on Nuclear Science, 2018, 65, 1612-1618.	1.2	20
72	Gamma radiation induced loss in erbium doped optical fibers. Journal of Non-Crystalline Solids, 2007, 353, 477-480.	1.5	19

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73	Radiation-induced defects in fluorine-doped silica-based optical fibers: Influence of a pre-loading with H2. Journal of Non-Crystalline Solids, 2009, 355, 1089-1091.	1.5	19
74	First principles study of oxygen-deficient centers in pure and Ge-doped silica. Journal of Non-Crystalline Solids, 2011, 357, 1994-1999.	1.5	19
75	Origin of the visible absorption in radiation-resistant optical fibers. Optical Materials Express, 2013, 3, 1769.	1.6	19
76	Effects of Radiation and Hydrogen-Loading on the Performances of Raman-Distributed Temperature Fiber Sensors. Journal of Lightwave Technology, 2015, 33, 2432-2438.	2.7	19
77	High Total Ionizing Dose and Temperature Effects on Micro- and Nano-Electronic Devices. IEEE Transactions on Nuclear Science, 2015, 62, 1226-1232.	1.2	19
78	Double Rydberg states of high angular momentum (l=6â€“8) produced in Ar viii byAr9+-Cs collisions. Physical Review Letters, 1989, 62, 2112-2115.	2.9	18
79	Core Versus Cladding Effects of Proton Irradiation on Erbium-Doped Optical Fiber: Micro-Luminescence Study. IEEE Transactions on Nuclear Science, 2008, 55, 2223-2228.	1.2	18
80	Industrial Qualification Process for Optical Fibers Distributed Strain and Temperature Sensing in Nuclear Waste Repositories. Journal of Sensors, 2012, 2012, 1-9.	0.6	18
81	Influence of photo-inscription conditions on the radiation-response of fiber Bragg gratings. Optics Express, 2015, 23, 8659.	1.7	18
82	X-rays, Î³-rays, electrons and protons radiation-induced changes on the lifetimes of Er 3+ and Yb 3+ ions in silica-based optical fibers. Journal of Luminescence, 2018, 195, 402-407.	1.5	18
83	Generation of an ordered layer of silver nanoparticles in mesostructured dielectric films. Journal of Nanoparticle Research, 2010, 12, 1073-1082.	0.8	17
84	Influence of the Manufacturing Process on the Radiation Sensitivity of Fluorine-Doped Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2012, 59, 760-766.	1.2	17
85	Proton Irradiation Response of Hole-Assisted Carbon Coated Erbium-Doped Fiber Amplifiers. IEEE Transactions on Nuclear Science, 2014, 61, 3309-3314.	1.2	17
86	Influence of <formula formulatype="inline"><tex Notation="TeX">${hbox{O}}_2$</tex></formula>-Loading Pretreatment on the Radiation Response of Pure and Fluorine-Doped Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2014, 61, 3302-3308.	1.2	17
87	Gamma and x-ray irradiation effects on different Ge and Ge/F doped optical fibers. Journal of Applied Physics, 2015, 118, .	1.1	17
88	Origins of radiation-induced attenuation in pure-silica-core and Ge-doped optical fibers under pulsed x-ray irradiation. Journal of Applied Physics, 2020, 128, .	1.1	17
89	Extreme Radiation Sensitivity of Ultra-Low Loss Pure-Silica-Core Optical Fibers at Low Dose Levels and Infrared Wavelengths. Sensors, 2020, 20, 7254.	2.1	17
90	-radiation-induced attenuation in photonic crystal fibre. Electronics Letters, 2002, 38, 1169.	0.5	16

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91	O₂-Loading Treatment of Ge-Doped Silica Fibers: A Radiation Hardening Process. Journal of Lightwave Technology, 2016, 34, 2311-2316.	2.7	16
92	Radiation-Induced Attenuation in Single-Mode Phosphosilicate Optical Fibers for Radiation Detection. IEEE Transactions on Nuclear Science, 2018, 65, 126-131.	1.2	16
93	Combined Temperature and Radiation Effects on Radiation-Sensitive Single-Mode Optical Fibers. IEEE Transactions on Nuclear Science, 2020, 67, 1643-1649.	1.2	16
94	Rydberg spectroscopy of single-electron capture in low-energy collisions ofAr9+andAr8+with cesium. Physical Review A, 1992, 46, 1316-1320.	1.0	15
95	Radiation Hardened Optical Frequency Domain Reflectometry Distributed Temperature Fiber-Based Sensors. IEEE Transactions on Nuclear Science, 2015, 62, 2988-2994.	1.2	15
96	Radiation Characterization of Optical Frequency Domain Reflectometry Fiber-Based Distributed Sensors. IEEE Transactions on Nuclear Science, 2016, 63, 1688-1693.	1.2	15
97	Photoactivated processes in optical fibers: generation and conversion mechanisms of twofold coordinated Si and Ge atoms. Nanotechnology, 2017, 28, 195202.	1.3	15
98	Near-IR- and UV-femtosecond laser waveguide inscription in silica glasses. Optical Materials Express, 2019, 9, 4624.	1.6	15
99	Visible emission processes in heavily doped Er/Yb silica optical fibers. Journal of Alloys and Compounds, 1998, 275-277, 276-278.	2.8	14
100	Polarizing grating mirror for CW Nd:YAG microchip lasers. IEEE Photonics Technology Letters, 2000, 12, 648-650.	1.3	14
101	Pulsed X-ray and /spl gamma/ rays irradiation effects on polarization-maintaining optical fibers. IEEE Transactions on Nuclear Science, 2004, 51, 2740-2746.	1.2	14
102	Influence of Ce codoping and H2 pre-loading on Er/Yb-doped fiber: Radiation response characterized by Confocal Micro-Luminescence. Journal of Non-Crystalline Solids, 2011, 357, 1963-1965.	1.5	14
103	Influence of ${m Ce}^{3+}$ Codoping on the Photoluminescence Excitation Channels of Phosphosilicate Yb/Er-Doped Glasses. IEEE Photonics Technology Letters, 2012, 24, 509-511.	1.3	14
104	Optical diagnosis of a metabolic disease: cystinosis. Journal of Biomedical Optics, 2013, 18, 046013.	1.4	14
105	Effects of densification atmosphere on optical properties of ionic copper-activated solâ€"gel silica glass: towards an efficient radiation dosimeter. Materials Research Express, 2014, 1, 026203.	0.8	14
106	Gamma Radiation Tests of Radiation-Hardened Fiber Bragg Grating-Based Sensors for Radiation Environments. IEEE Transactions on Nuclear Science, 2017, 64, 2307-2311.	1.2	14
107	Steady-State Radiation-Induced Effects on the Performances of BOTDA and BOTDR Optical Fiber Sensors. IEEE Transactions on Nuclear Science, 2018, 65, 111-118.	1.2	14
108	Rydberg transition emission after multielectron capture in low-energy collisions ofAr9+with He, Ne, and Ar. Physical Review A, 1990, 42, 6564-6569.	1.0	13

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109	Enhancement of Lyman-Î± radiation following foil-induced dissociation of fast ionic hydrogen clustersHn+. Physical Review A, 1991, 43, 121-126.	1.0	13
110	Coincidence measurements between photons, projectiles and recoil ions in low energy Kr18+ + Kr collisions. Auto-ionizing and radiative effect of multi-excited states. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 165, 441-446.	0.9	13
111	Dependence of the emission properties of the germanium lone pair center on Ge doping of silica. Journal of Physics Condensed Matter, 2011, 23, 015903.	0.7	13
112	Raman measurements in silica glasses irradiated with energetic ions. AIP Conference Proceedings, 2014, , .	0.3	13
113	Near infrared radio-luminescence of O2 loaded radiation hardened silica optical fibers: A candidate dosimeter for harsh environments. Applied Physics Letters, 2014, 105, .	1.5	13
114	Combined Temperature Radiation Effects and Influence of Drawing Conditions on Phosphorousâ€Doped Optical Fibers. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800553.	0.8	13
115	X-ray preconditioning for enhancing refractive index contrast in femtosecond laser photoinscription of embedded waveguides in pure silica. Optical Materials Express, 2019, 9, 65.	1.6	13
116	UV assisted local crystallization in Er3+ doped oxy-fluoride glass. Journal of Non-Crystalline Solids, 2007, 353, 506-509.	1.5	12
117	Influence of fluorine on the fiber resistance studied through the nonbridging oxygen hole center related luminescence. Journal of Applied Physics, 2013, 113, 193107.	1.1	12
118	On-site Regeneration Technique for Hole-Assisted Optical Fibers Used In Nuclear Facilities. IEEE Transactions on Nuclear Science, 2015, 62, 2941-2947.	1.2	12
119	Investigation of Coating Impact on OFDR Optical Remote Fiber-Based Sensors Performances for Their Integration in High Temperature and Radiation Environments. Journal of Lightwave Technology, 2016, 34, 4460-4465.	2.7	12
120	On-Line Characterization of Gamma Radiation Effects on Single-Ended Raman Based Distributed Fiber Optic Sensor. IEEE Transactions on Nuclear Science, 2016, 63, 2051-2057.	1.2	12
121	Radiation Hardened Architecture of a Single-Ended Raman-Based Distributed Temperature Sensor. IEEE Transactions on Nuclear Science, 2017, 64, 54-60.	1.2	12
122	Steady Î³-Ray Effects on the Performance of PPP-BOTDA and TW-COTDR Fiber Sensing. Sensors, 2017, 17, 396.	2.1	12
123	X-Ray, Proton, and Electron Radiation Effects on Type I Fiber Bragg Gratings. IEEE Transactions on Nuclear Science, 2018, 65, 1632-1638.	1.2	12
124	Temperature-Dependent Modeling of Cladding-Pumped <inline-formula> <tex-math notation="LaTeX">$ext{Er}^{3+}$</tex-math> </inline-formula>/<inline-formula> <tex-math notation="LaTeX">$ext{Yb}^{3+}$</tex-math> </inline-formula>-Codoped Fiber Amplifiers for Space Applications. Journal of Lightwave Technology, 2018, 36, 3594-3602.	2.7	12
125	Operating Temperature Range of Phosphorous-Doped Optical Fiber Dosimeters Exploiting Infrared Radiation-Induced Attenuation. IEEE Transactions on Nuclear Science, 2021, 68, 906-912.	1.2	12
126	Polarizing grating coupler for high Q laser cavities. IEEE Journal of Quantum Electronics, 2003, 39, 614-619.	1.0	11

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127	UV-assisted crystallisation of tellurite and germanate-based glasses. Optical Materials, 2006, 28, 1276-1279.	1.7	11
128	Evaluation of Distributed OFDR-Based Sensing Performance in Mixed Neutron/Gamma Radiation Environments. IEEE Transactions on Nuclear Science, 2017, 64, 61-67.	1.2	11
129	Vulnerability and Hardening Studies of Optical and Illumination Systems at MGy Dose Levels. IEEE Transactions on Nuclear Science, 2018, 65, 132-140.	1.2	11
130	Radiation Effects on Type I Fiber Bragg Gratings: Influence of Recoating and Irradiation Conditions. Journal of Lightwave Technology, 2018, 36, 998-1004.	2.7	11
131	Radiation Effects on Aluminosilicate Optical Fibers: Spectral Investigations From the Ultraviolet to Nearâ€Infrared Domains. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800485.	0.8	11
132	X-Rays, <inline-formula> <tex-math notation="LaTeX">$gamma$ </tex-math> </inline-formula>-Rays, and Proton Beam Monitoring With Multimode Nitrogen-Doped Optical Fiber. IEEE Transactions on Nuclear Science, 2019, 66, 306-311.	1.2	11
133	Hyperfine structure evolution in an electric field and determination of tensor polarizabilities in He (4) Tj ETQq1 1 0.784314 rgBT /Overl	1.8	11
134	Ab initio molecular dynamics simulations of oxygen-deficient centers in pure and Ge-doped silica glasses: Structure and optical properties. Journal of Non-Crystalline Solids, 2006, 352, 2596-2600.	1.5	10
135	Spectroscopic Study of $gamma$-Ray and Pulsed X-Ray Radiation-Induced Point Defects in Pure-Silica-Core Optical Fibers. IEEE Transactions on Nuclear Science, 2007, 54, 1136-1142.	1.2	10
136	Effects of ionizing radiations on the optical properties of ionic copper-activated sol-gel silica glasses. Optical Materials, 2018, 75, 116-121.	1.7	10
137	Performances of Radiation-Hardened Single-Ended Raman Distributed Temperature Sensors Using Commercially Available Fibers. IEEE Transactions on Nuclear Science, 2020, 67, 305-311.	1.2	10
138	Radiation Effects on Pure-Silica Multimode Optical Fibers in the Visible and Near-Infrared Domains: Influence of OH Groups. Applied Sciences (Switzerland), 2021, 11, 2991.	1.3	10
139	Investigation of the Incorporation of Cerium Ions in MCVD-Silica Glass Preforms for Remote Optical Fiber Radiation Dosimetry. Sensors, 2021, 21, 3362.	2.1	10
140	High charge states of Xe^{r+} recoil ions (r = 1 - 15) produced by multicapture processes in low energy Xe²⁷⁺ collisions on Xe. Radiation Effects and Defects in Solids, 1993, 126, 337-340.	0.4	9
141	Defect radial repartitions in ultraviolet irradiated germanosilicate optical fibres. Journal of Non-Crystalline Solids, 1999, 245, 110-114.	1.5	9
142	Radial distribution of attenuation in gamma-irradiated single-mode optical fibers. Applied Physics Letters, 2003, 83, 219-221.	1.5	9
143	Ultraviolet-induced paramagnetic centers and absorption changes in singlemode Ge-doped optical fibers. Optics Express, 2006, 14, 5885.	1.7	9
144	Raman investigation of the drawing effects on Ge-doped fibers. Journal of Non-Crystalline Solids, 2011, 357, 24-27.	1.5	9

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145	Micro-Raman investigation of X or Î³ irradiated Ge doped fibers. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1346-1349.	0.6	9
146	Luminescence properties of ytterbium and erbium doped silicaâ€“zirconia nanostructured optical fiber under near infrared excitation. Journal of Luminescence, 2011, 131, 2427-2431.	1.5	9
147	Identification of a soft tissue filler byex vivoconfocal microscopy and Raman spectroscopy in a case of adverse reaction to the filler. Skin Research and Technology, 2015, 21, 114-118.	0.8	9
148	Correlations between Structural and Optical Properties of Peroxy Bridges from First Principles. Journal of Physical Chemistry C, 2017, 121, 4002-4010.	1.5	9
149	Dependence of the Voids-Fiber Bragg Grating Radiation Response on Temperature, Dose, and Dose Rate. IEEE Transactions on Nuclear Science, 2018, 65, 1619-1623.	1.2	9
150	Optical absorption spectra of P defects in vitreous silica. Optical Materials Express, 2018, 8, 385.	1.6	9
151	Atmospheric Neutron Monitoring through Optical Fiber-Based Sensing. Sensors, 2020, 20, 4510.	2.1	9
152	Steady-State X-Ray Radiation-Induced Attenuation in Canonical Optical Fibers. IEEE Transactions on Nuclear Science, 2020, 67, 1650-1657.	1.2	9
153	Photobleaching Effect on Infrared Radiation-Induced Attenuation of Germanosilicate Optical Fibers at MGy Dose Levels. IEEE Transactions on Nuclear Science, 2021, 68, 1688-1693.	1.2	9
154	Coupled temperature and Î³-radiation effect on silica-based optical fiber strain sensors based on Rayleigh and Brillouin scatterings. Optics Express, 2019, 27, 21608.	1.7	9
155	Gd³⁺-doped sol-gel silica glass for remote ionizing radiation dosimetry. OSA Continuum, 2019, 2, 715.	1.8	9
156	Temperature Dependence of Low-Dose Radiation-Induced Attenuation of Germanium-Doped Optical Fiber at Infrared Wavelengths. IEEE Transactions on Nuclear Science, 2022, 69, 512-517.	1.2	9
157	Diamond-like carbon deposited by femtosecond pulsed-laser ablation: evidence of nanocrystalline diamond. , 2002, , .		8
158	Pulsed X-Ray and Continuous Gamma Radiation Effects on Erbium Doped Optical Fibers Properties. IEEE Transactions on Nuclear Science, 2007, 54, 2598-2603.	1.2	8
159	Dose Rate Effect Comparison on the Radiation Response of Type I Fiber Bragg Gratings Written With UV cw Laser. IEEE Transactions on Nuclear Science, 2016, 63, 2046-2050.	1.2	8
160	6-MeV Electron Exposure Effects on OFDR-Based Distributed Fiber-Based Sensors. IEEE Transactions on Nuclear Science, 2018, 65, 1598-1603.	1.2	8
161	Radiation and High Temperature Effects on Regenerated Fiber Bragg Grating. Journal of Lightwave Technology, 2019, 37, 4763-4769.	2.7	8
162	Cu/Ce-co-Doped Silica Glass as Radioluminescent Material for Ionizing Radiation Dosimetry. Materials, 2020, 13, 2611.	1.3	8

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