Hicham El Hamzaoui

List of Publications by Year
in descending order

84	1,274	394421 19	414414 32
papers	citations	h-index	g-index

84	84	84	1232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	X-Ray Radioluminescence in Diversely Doped Multimode Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2022, 69, 1625-1632.	2.0	3
2	Optical Fiber-Based Monitoring of X-ray Pulse Series from a Linear Accelerator. Radiation, 2022, 2, 17-32.	1.4	6
3	Investigation of the Incorporation of Cerium Ions in MCVD-Silica Glass Preforms for Remote Optical Fiber Radiation Dosimetry. Sensors, 2021, 21, 3362.	3.8	10
4	Large Mode Area Solid-Core Photonic Bandgap Yb-Doped Fiber With Hetero-Structured Cladding for Compact High-Power Laser Systems. Journal of Lightwave Technology, 2021, 39, 4809-4813.	4.6	8
5	Temperature Effect on the Radioluminescence of Cu-, Ce-, and CuCe-Doped Silica-Based Fiber Materials. IEEE Transactions on Nuclear Science, 2021, 68, 1782-1787.	2.0	5
6	TL Properties of RE-Doped and Co-Doped Sol-Gel Silica Rods. Application to Passive (OSL) and Real-Time (RL) Dosimetry. IEEE Sensors Journal, 2021, 21, 27465-27472.	4.7	3
7	Radioluminescence Response of Ce-, Cu-, and Gd-Doped Silica Glasses for Dosimetry of Pulsed Electron Beams. Sensors, 2021, 21, 7523.	3.8	5
8	Porous Silica as a Nanotemplate for the Solid State and Liquid Phase Synthesis of Luminescent Carbon Dots. ECS Transactions, 2020, 97, 91-96.	0.5	1
9	Cu/Ce-co-Doped Silica Glass as Radioluminescent Material for Ionizing Radiation Dosimetry. Materials, 2020, 13, 2611.	2.9	8
10	Remote Measurements of X-Rays Dose Rate Using a Cerium-Doped Air-Clad Optical Fiber. IEEE Transactions on Nuclear Science, 2020, 67, 1658-1662.	2.0	8
11	Investigation of Thermoluminescence Properties of Potential Fibered-OSL Dosimeter Materials. IEEE Transactions on Nuclear Science, 2020, 67, 1663-1668.	2.0	3
12	Hundreds of meter-long low-loss silicon-core optical fiber. , 2020, , .		3
13	Solâ€“gel materials for optical fibers. , 2020, , 315-346.		1
14	Synthesis, Structural and Optical Properties of Bismuthâ€Doped Solâ€Gelâ€Derived Phosphosilicate Glasses. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800411.	1.8	2
15	Novel Gd3+-doped silica-based optical fiber material for dosimetry in proton therapy. Scientific Reports, 2019, 9, 16376.	3.3	25
16	Optical responses of a copper-activated sol-gel silica glass under low-dose and low-dose rate X-ray exposures. OSA Continuum, 2019, 2, 563.	1.8	7
17	Gd³⁺-doped sol-gel silica glass for remote ionizing radiation dosimetry. OSA Continuum, 2019, 2, 715.	1.8	9
18	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.	2.0	20

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19	Spectral properties and lifetime of green emission in Î³-ray irradiated bismuth-doped silica photonic crystal fibers. Journal of Non-Crystalline Solids, 2018, 482, 100-104.	3.1	1
20	YbPO 4 nano-cylinders formation and alignment within optical fiber preforms using fiber-drawing process. Materials Research Bulletin, 2018, 97, 293-299.	5.2	8
21	Effects of ionizing radiations on the optical properties of ionic copper-activated sol-gel silica glasses. Optical Materials, 2018, 75, 116-121.	3.6	10
22	Structured blue emission in Bismuth doped fibers. Optical Materials, 2018, 84, 663-667.	3.6	0
23	Solâ€“gel silica glass-cladding semiconductor-core optical fiber. Materials Today Communications, 2017, 11, 179-183.	1.9	8
24	On the nature of photoluminescence in Bismuth-doped silica glass. Scientific Reports, 2017, 7, 3178.	3.3	31
25	In situgrowth of luminescent silver nanoclusters inside bulk sol-gel silica glasses. Materials Research Express, 2017, 4, 076201.	1.6	10
26	Infrared absorption by molecular gases to probe porous materials and comparisons with other techniques. Microporous and Mesoporous Materials, 2017, 237, 31-37.	4.4	13
27	Potential of Copper- and Cerium-Doped Optical Fiber Materials for Proton Beam Monitoring. IEEE Transactions on Nuclear Science, 2017, 64, 567-573.	2.0	20
28	F/Yb-codoped sol-gel silica glasses: toward tailoring the refractive index for the achievement of high-power fiber lasers. Optics Letters, 2017, 42, 1408.	3.3	7
29	Potential of Novel Optical Fibers for Proton Therapy Dosimetry. , 2017, , .		3
30	Ge- and Al-related point defects generated by gamma irradiation in nanostructured erbium-doped optical fiber preforms. Journal of Materials Science, 2016, 51, 10245-10261.	3.7	14
31	Study of Radiation Effects on Er3+-Doped Nanoparticles Germano-Silica Fibers. Journal of Lightwave Technology, 2016, 34, 4981-4987.	4.6	3
32	Optical Frequency Domain Reflectometer Distributed Sensing Using Microstructured Pure Silica Optical Fibers Under Radiations. IEEE Transactions on Nuclear Science, 2016, 63, 2038-2045.	2.0	7
33	Cerium-activated solâ€“gel silica glasses for radiation dosimetry in harsh environment. Materials Research Express, 2016, 3, 046201.	1.6	26
34	Solâ€“gel derived copper-doped silica glass as a sensitive material for X-ray beam dosimetry. Optical Materials, 2016, 51, 104-109.	3.6	22
35	Nanostructuring an erbium local environment inside solâ€“gel silica glasses: toward efficient erbium optical fiber lasers. Laser Physics Letters, 2016, 13, 025108.	1.4	11
36	Radiation hardening of sol gel-derived silica fiber preforms through fictive temperature reduction. Applied Optics, 2016, 55, 7455.	2.1	7

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37	Investigation of radiation resistance of Er3+ doped germano-silica fibers by means of SiO2 and Al2O3 nanoparticles. , 2016, , .		0
38	Combination of porous silica monolith and gold thin films for electrode material of supercapacitor. Materials Research Express, 2015, 2, 125001.	1.6	0
39	Infrared light on molecule-molecule and molecule-surface collisions. Physical Review A, 2015, 92, .	2.5	4
40	Radiation hardening in sol-gel derived Er3+-doped silica glasses. Journal of Applied Physics, 2015, 118, .	2.5	18
41	Radiation Response of OFDR Distributed Sensors Based on Microstructured Pure Silica Optical Fibers. , 2015, , .		2
42	Structure determination of molecular nanocomposites by combining pair distribution function analysis and solid-state NMR. RSC Advances, 2015, 5, 8895-8902.	3.6	11
43	CO2 laser-induced precipitation of CdSxSe1â^'x nanoparticles in a borosilicate glass: A new approach for the localized growth of quantum dots. Optical Materials, 2015, 42, 331-334.	3.6	2
44	In situ synthesis of a highly crystalline Tb-doped YAG nanophosphor using the mesopores of silica monoliths as a template. Journal of Materials Chemistry C, 2015, 3, 5041-5049.	5.5	8
45	Coherent beam combining with an ultrafast multicore Yb-doped fiber amplifier. Optics Express, 2015, 23, 5406.	3.4	51
46	Anti-Stokes photoluminescence in Ga/Bi co-doped sol-gel silica glass. Optics Letters, 2015, 40, 1591.	3.3	4
47	Magnetic circular polarization of luminescence in bismuth-doped silica glass. Optica, 2015, 2, 663.	9.3	12
48	Synthesis and nonlinear optical properties of zirconia-protected gold nanoparticles embedded in solâ€“gel derived silica glass. Materials Research Express, 2015, 2, 055009.	1.6	18
49	Raman investigation of germanium- and phosphorus-doping effects on the structure of solâ€“gel silica-based optical fiber preforms. Journal of Molecular Structure, 2015, 1099, 77-82.	3.6	13
50	Influence of Al/Ge ratio on radiation-induced attenuation in nanostructured erbium-doped fibers preforms. , 2015, , .		2
51	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.	1.6	14
52	Designs of Large Mode Area Solid-Core Photonic Bandgap Fibers for High Power Applications. , 2014, , .		0
53	Photoluminescence in Ga/Bi co-doped silica glass. Optics Express, 2014, 22, 5659.	3.4	9
54	Line broadening of confined CO gas: From molecule-wall to molecule-molecule collisions with pressure. Journal of Chemical Physics, 2014, 140, 064302.	3.0	25

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55	Synthesis of gold nanoparticles within silica monoliths through irradiation techniques using Au(<scp>i</scp>) and Au(<scp>iii</scp>) precursors. RSC Advances, 2014, 4, 26038-26045.	3.6	6
56	Room temperature bistability with wide thermal hysteresis in a spin crossover silica nanocomposite. Journal of Materials Chemistry C, 2013, 1, 1933.	5.5	81
57	Infrared absorption by molecular gases as a probe of nanoporous silica xerogel and molecule-surface collisions: Low-pressure results. Physical Review A, 2013, 88, .	2.5	34
58	Laser-induced growth of nanocrystals embedded in porous materials. Nanoscale Research Letters, 2013, 8, 266.	5.7	10
59	Few mode Er^3+-doped fiber with micro-structured core for mode division multiplexing in the C-band. Optics Express, 2013, 21, 31646.	3.4	46
60	A pure silica ytterbium-doped solâ€“gel-based fiber laser. Laser Physics Letters, 2013, 10, 055106.	1.4	27
61	Few Mode Er3+-Doped Fiber with Microstructured Core Enabling Spectral and Modal Gain Equalization for Spatial Division Multiplexing. , 2013, , .		1
62	Very large mode area Solid-Core Photonic BandGap fiber laser with hetero-structured cladding and Yb-doped Sol-Gel core. , 2013, , .		0
63	Sol-gel derived ionic copper-doped microstructured optical fiber: a potential selective ultraviolet radiation dosimeter. Optics Express, 2012, 20, 29751.	3.4	129
64	Photoluminescence of sol-gel silica fiber preform doped with Bismuth-containing heterotrinuclear complex. Optical Materials Express, 2012, 2, 205.	3.0	14
65	Direct laser-assisted synthesis of localized gold nanoparticles from both Au (III) and Au (I) precursors within a silica monolith. , 2012, , .		1
66	Effects of heat treatment and TiO2 content on the optical properties of Eu3+ doped TiO2â€“SiO2 thin films. Journal of Luminescence, 2012, 132, 2979-2983.	3.1	7
67	H2-induced copper and silver nanoparticle precipitation inside sol-gel silica optical fiber preforms. Nanoscale Research Letters, 2012, 7, 487.	5.7	19
68	Antireflective solâ€“gel TiO2 thin films for single crystal silicon and textured polycrystal silicon. Journal of Sol-Gel Science and Technology, 2012, 62, 24-30.	2.4	5
69	Linear and nonlinear optical properties of gold nanoparticle-doped photonic crystal fiber. , 2011, , .		0
70	Linear and nonlinear optical properties of gold nanoparticle-doped photonic crystal fiber. Optics Express, 2011, 19, 19061.	3.4	29
71	From molecular precursors in solution to microstructured optical fiber: a Sol-gel polymeric route. Optical Materials Express, 2011, 1, 234.	3.0	49
72	Continuous laser irradiation under ambient conditions: A simple way for the space-selective growth of gold nanoparticles inside a silica monolith. Materials Research Bulletin, 2011, 46, 1530-1533.	5.2	17

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73	Continuous laser direct-writing of PbS nanoparticles inside transparent silica monoliths. Journal of Nanoparticle Research, 2011, 13, 6507-6515.	1.9	2
74	Direct-writing of PbS nanoparticles inside transparent porous silica monoliths using pulsed femtosecond laser irradiation. Nanoscale Research Letters, 2011, 6, 542.	5.7	15
75	Nano-engineered Bismuth-doped silica glasses and origin of near infrared photoluminescence. , 2011, , .		0
76	From porous silica xerogels to bulk optical glasses: The control of densification. Materials Chemistry and Physics, 2010, 121, 83-88.	4.0	64
77	Room temperature direct space-selective growth of gold nanoparticles inside a silica matrix based on a femtosecond laser irradiation. Materials Letters, 2010, 64, 1279-1282.	2.6	11
78	Experimental Study of SiO₂Soot Deposition using the Outside Vapor Deposition Method. Aerosol Science and Technology, 2010, 44, 388-394.	3.1	15
79	Laser-induced direct space-selective precipitation of CdS nanoparticles embedded in a transparent silica xerogel. Nanotechnology, 2010, 21, 134002.	2.6	14
80	Optical properties of Bismuth-doped silica core photonic crystal fiber. Optics Express, 2010, 18, 19479.	3.4	39
81	Optical spectroscopy of bismuth-doped pure silica fiber preform. Optics Letters, 2010, 35, 1341.	3.3	60
82	Synthesis and Characterization of Lipophilic Organotins. Application to the Functionalization of Silica Gel. Organometallics, 2007, 26, 5576-5580.	2.3	5
83	Alkynylorganotins, versatile precursors of class II hybrid materials. Applied Organometallic Chemistry, 2007, 21, 514-520.	3.5	7
84	Bridged Polystannoxane: A New Route toward Nanoporous Tin Dioxide. Chemistry of Materials, 2006, 18, 6364-6372.	6.7	46