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	Sol-gel derived ionic copper-doped microstructured optical fiber: a potential selective ultraviolet radiation dosimeter. Optics Express, 2012, 20, 29751.	3.4	129
2	Room temperature bistability with wide thermal hysteresis in a spin crossover silica nanocomposite. Journal of Materials Chemistry C, 2013, 1, 1933.	5.5	81
3	From porous silica xerogels to bulk optical glasses: The control of densification. Materials Chemistry and Physics, 2010, 121, 83-88.	4.0	64
4	Optical spectroscopy of bismuth-doped pure silica fiber preform. Optics Letters, 2010, 35, 1341.	3.3	60
5	Coherent beam combining with an ultrafast multicore Yb-doped fiber amplifier. Optics Express, 2015, 23, 5406.	3.4	51
6	From molecular precursors in solution to microstructured optical fiber: a Sol-gel polymeric route. Optical Materials Express, 2011, 1, 234.	3.0	49
7	Bridged Polystannoxane: A New Route toward Nanoporous Tin Dioxide. Chemistry of Materials, 2006, 18, 6364-6372.	6.7	46
8	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
9	Optical properties of Bismuth-doped silica core photonic crystal fiber. Optics Express, 2010, 18, 19479.	3.4	39
10	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
11	On the nature of photoluminescence in Bismuth-doped silica glass. Scientific Reports, 2017, 7, 3178.	3.3	31
12	Linear and nonlinear optical properties of gold nanoparticle-doped photonic crystal fiber. Optics Express, 2011, 19, 19061.	3.4	29
13	A pure silica ytterbium-doped solâ€“gel-based fiber laser. Laser Physics Letters, 2013, 10, 055106.	1.4	27
14	Cerium-activated solâ€“gel silica glasses for radiation dosimetry in harsh environment. Materials Research Express, 2016, 3, 046201.	1.6	26
15	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
16	Novel Gd3+-doped silica-based optical fiber material for dosimetry in proton therapy. Scientific Reports, 2019, 9, 16376.	3.3	25
17	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
18	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

#	Article	IF	Citations
19	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
20	H2-induced copper and silver nanoparticle precipitation inside sol-gel silica optical fiber preforms. Nanoscale Research Letters, 2012, 7, 487.	5.7	19
21	Radiation hardening in sol-gel derived Er3+-doped silica glasses. Journal of Applied Physics, 2015, 118, .	2.5	18
22	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
23	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
24	Experimental Study of SiO₂Soot Deposition using the Outside Vapor Deposition Method. Aerosol Science and Technology, 2010, 44, 388-394.	3.1	15
25	Direct-writing of PbS nanoparticles inside transparent porous silica monoliths using pulsed femtosecond laser irradiation. Nanoscale Research Letters, 2011, 6, 542.	5.7	15
26	Laser-induced direct space-selective precipitation of CdS nanoparticles embedded in a transparent silica xerogel. Nanotechnology, 2010, 21, 134002.	2.6	14
27	Photoluminescence of sol-gel silica fiber preform doped with Bismuth-containing heterotrinuclear complex. Optical Materials Express, 2012, 2, 205.	3.0	14
28	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
29	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
30	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
31	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
32	Magnetic circular polarization of luminescence in bismuth-doped silica glass. Optica, 2015, 2, 663.	9.3	12
33	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
34	Structure determination of molecular nanocomposites by combining pair distribution function analysis and solid-state NMR. RSC Advances, 2015, 5, 8895-8902.	3.6	11
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	Laser-induced growth of nanocrystals embedded in porous materials. Nanoscale Research Letters, 2013, 8, 266.	5.7	10

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37	In situgrowth of luminescent silver nanoclusters inside bulk sol-gel silica glasses. Materials Research Express, 2017, 4, 076201.	1.6	10
38	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
39	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
40	Photoluminescence in Ga/Bi co-doped silica glass. Optics Express, 2014, 22, 5659.	3.4	9
41	Gd³⁺-doped sol-gel silica glass for remote ionizing radiation dosimetry. OSA Continuum, 2019, 2, 715.	1.8	9
42	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
43	Solâ€“gel silica glass-cladding semiconductor-core optical fiber. Materials Today Communications, 2017, 11, 179-183.	1.9	8
44	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
45	Cu/Ce-co-Doped Silica Glass as Radioluminescent Material for Ionizing Radiation Dosimetry. Materials, 2020, 13, 2611.	2.9	8
46	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
47	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
48	Alkynylorganotins, versatile precursors of class II hybrid materials. Applied Organometallic Chemistry, 2007, 21, 514-520.	3.5	7
49	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
50	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
51	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
52	Radiation hardening of sol gel-derived silica fiber preforms through fictive temperature reduction. Applied Optics, 2016, 55, 7455.	2.1	7
53	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
54	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

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55	Optical Fiber-Based Monitoring of X-ray Pulse Series from a Linear Accelerator. Radiation, 2022, 2, 17-32.	1.4	6
56	Synthesis and Characterization of Lipophilic Organotins. Application to the Functionalization of Silica Gel. Organometallics, 2007, 26, 5576-5580.	2.3	5
57	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
58	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
59	Radioluminescence Response of Ce-, Cu-, and Gd-Doped Silica Glasses for Dosimetry of Pulsed Electron Beams. Sensors, 2021, 21, 7523.	3.8	5
60	Infrared light on molecule-molecule and molecule-surface collisions. Physical Review A, 2015, 92, .	2.5	4
61	Anti-Stokes photoluminescence in Ga/Bi co-doped sol-gel silica glass. Optics Letters, 2015, 40, 1591.	3.3	4
62	Study of Radiation Effects on Er3+-Doped Nanoparticles Germano-Silica Fibers. Journal of Lightwave Technology, 2016, 34, 4981-4987.	4.6	3
63	Potential of Novel Optical Fibers for Proton Therapy Dosimetry. , 2017, , .		3
64	Investigation of Thermoluminescence Properties of Potential Fibered-OSL Dosimeter Materials. IEEE Transactions on Nuclear Science, 2020, 67, 1663-1668.	2.0	3
65	Hundreds of meter-long low-loss silicon-core optical fiber. , 2020, , .		3
66	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
67	X-Ray Radioluminescence in Diversely Doped Multimode Silica-Based Optical Fibers. IEEE Transactions on Nuclear Science, 2022, 69, 1625-1632.	2.0	3
68	Continuous laser direct-writing of PbS nanoparticles inside transparent silica monoliths. Journal of Nanoparticle Research, 2011, 13, 6507-6515.	1.9	2
69	Radiation Response of OFDR Distributed Sensors Based on Microstructured Pure Silica Optical Fibers. , 2015, , .		2
70	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
71	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
72	Influence of Al/Ge ratio on radiation-induced attenuation in nanostructured erbium-doped fibers preforms. , 2015, , .		2

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73	Direct laser-assisted synthesis of localized gold nanoparticles from both Au (III) and Au (I) precursors within a silica monolith. , 2012, , .		1
74	Few Mode Er3+-Doped Fiber with Microstructured Core Enabling Spectral and Modal Gain Equalization for Spatial Division Multiplexing. , 2013, , .		1
75	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
76	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
77	Solâ€“gel materials for optical fibers. , 2020, , 315-346.		1
78	Linear and nonlinear optical properties of gold nanoparticle-doped photonic crystal fiber. , 2011, , .		0
79	Nano-engineered Bismuth-doped silica glasses and origin of near infrared photoluminescence. , 2011, , .		0
80	Very large mode area Solid-Core Photonic BandGap fiber laser with hetero-structured cladding and Yb-doped Sol-Gel core. , 2013, , .		0
81	Designs of Large Mode Area Solid-Core Photonic Bandgap Fibers for High Power Applications. , 2014, , .		0
82	Combination of porous silica monolith and gold thin films for electrode material of supercapacitor. Materials Research Express, 2015, 2, 125001.	1.6	0
83	Structured blue emission in Bismuth doped fibers. Optical Materials, 2018, 84, 663-667.	3.6	0
84	Investigation of radiation resistance of Er3+ doped germano-silica fibers by means of SiO2 and Al2O3 nanoparticles. , 2016, , .		0