M Bouazaoui

List of Publications by Year
in descending order

59 papers	1,588 citations	257450 24 h-index	315739 38 g-index
59 all docs	59 docs citations	59 times ranked	1625 citing authors

#	Article	IF	Citations
1	Up-conversion fluorescence spectroscopy in Er3+: TiO2 planar waveguides prepared by a sol-gel process. Journal of Non-Crystalline Solids, 1996, 202, 16-22.	3.1	96
2	Raman spectroscopic investigations of the effect of the doping metal on the structure of binary tellurium-oxide glasses. Journal of Non-Crystalline Solids, 1997, 220, 169-177.	3.1	81
3	Preparation and characterization of sol-gel derived Er3+: Al2O3â€“SiO2 planar waveguides. Applied Physics Letters, 1997, 71, 428-430.	3.3	80
4	Structural and optical properties of n-propoxide solâ€“gel derived ZrO2 thin films. Thin Solid Films, 2006, 496, 227-233.	1.8	73
5	Enhanced fluorescence from Eu3+ in low-loss silica glass-ceramic waveguides with high SnO2 content. Applied Physics Letters, 2008, 93, .	3.3	69
6	Fluorescence of Er3+ ions in TiO2 planar waveguides prepared by a sol-gel process. Optics Communications, 1994, 111, 55-60.	2.1	67
7	From porous silica xerogels to bulk optical glasses: The control of densification. Materials Chemistry and Physics, 2010, 121, 83-88.	4.0	64
8	Structural characterisation of Er3+ doped solâ€“gel TiO2 planar optical waveguides. Thin Solid Films, 1998, 323, 59-62.	1.8	62
9	Fluorescence properties of sol-gel derived Er3+:SiO2î—¸GeO2 planar waveguides. Optics Communications, 1997, 137, 143-150.	2.1	60
10	Optical spectroscopy of bismuth-doped pure silica fiber preform. Optics Letters, 2010, 35, 1341.	3.3	60
11	Effects of rare-earth concentration and heat-treatment on the structural and luminescence properties of europium-doped zirconia solâ€“gel planar waveguides. Optical Materials, 2007, 29, 1723-1730.	3.6	51
12	Investigations of the effects of the growth of SnO2 nanoparticles on the structural properties of glassâ€“ceramic planar waveguides using Raman and FTIR spectroscopies. Journal of Molecular Structure, 2010, 976, 314-319.	3.6	47
13	Effects of annealing temperature and heat-treatment duration on electrical properties of solâ€“gel derived indium-tin-oxide thin films. Thin Solid Films, 2008, 516, 4102-4106.	1.8	43
14	Preparation of SiO₂â€”GeO₂: Eu³⁺ planar waveguides and characterization by waveguide Raman and luminescence spectroscopies. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 363-372.	0.6	40
15	Optical properties of Bismuth-doped silica core photonic crystal fiber. Optics Express, 2010, 18, 19479.	3.4	39
16	Kinetics of densification of porous silica gels: a structural and textural study. Journal of Non-Crystalline Solids, 2001, 291, 143-152.	3.1	38
17	Title is missing!. Journal of Materials Science, 2001, 36, 2565-2570.	3.7	35
18	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

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19	IR luminescence decays and radiative lifetime of the level in Er3+ doped sol-gel TiO2 planar waveguides. Optical Materials, 1997, 7, 173-179.	3.6	32
20	Laser-induced fluorescence and up-conversion processes inLiYF4:Nd3+laser crystals. Physical Review B, 1990, 41, 31-40.	3.2	30
21	Linear and nonlinear optical properties of gold nanoparticle-doped photonic crystal fiber. Optics Express, 2011, 19, 19061.	3.4	29
22	Energy transfer between semiconductor nanoparticles (ZnS or CdS) and Eu3+ ions in solâ€“gel derived ZrO2 thin films. Optical Materials, 2008, 30, 1595-1602.	3.6	28
23	Transient radiation-induced effects on solid core microstructured optical fibers. Optics Express, 2011, 19, 21760.	3.4	25
24	Novel Gd3+-doped silica-based optical fiber material for dosimetry in proton therapy. Scientific Reports, 2019, 9, 16376.	3.3	25
25	Controlled SnO₂ nanocrystal growth in SiO₂â€“SnO₂ glassâ€ceramic monoliths. Journal of Raman Spectroscopy, 2012, 43, 869-875.	2.5	24
26	Waveguide Raman spectroscopy: a non-destructive tool for the characterization of amorphous thin films. Journal of Molecular Structure, 1999, 480-481, 169-178.	3.6	23
27	Two-photon transition intensities forSm2+in BaClF. Physical Review B, 1989, 40, 2070-2075.	3.2	22
28	Raman spectroscopic characterization of Er3+-doped tellurite-based glasses. Journal of Molecular Structure, 2001, 563-564, 283-287.	3.6	21
29	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
30	Application of molecular dynamics techniques and luminescent probes to the study of glass structure: the SiO2â€“GeO2 case. Journal of Non-Crystalline Solids, 2001, 284, 68-72.	3.1	19
31	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
32	Raman scattering boson peak and differential scanning calorimetry studies of the glass transition in telluriumâ€“zinc oxide glasses. Journal of Physics Condensed Matter, 2010, 22, 195103.	1.8	17
33	Two-photon transitions of Gd3+in cubic Cs2NaGdCl6. Journal of Physics Condensed Matter, 1991, 3, 921-926.	1.8	15
34	Effects of the sol-gel solution host on the chemical and optical properties of PbS quantum dots. Journal of Molecular Structure, 2003, 651-653, 467-473.	3.6	15
35	All-optical tunability of InGaAsP/InP microdisk resonator by infrared light irradiation. Optics Letters, 2007, 32, 35.	3.3	15
36	CO2 laser-induced crystallization of solâ€“gel-derived indium tin oxide films. Applied Physics A: Materials Science and Processing, 2009, 96, 741-749.	2.3	15

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37	UV-induced permanent gratings in solâ€“gel germanosilicate thin films. Optical Materials, 2000, 13, 439-448.	3.6	14
38	Laser-induced direct space-selective precipitation of CdS nanoparticles embedded in a transparent silica xerogel. Nanotechnology, 2010, 21, 134002.	2.6	14
39	Synthesis and optical properties of MPTMS-capped CdS quantum dots embedded in TiO2 thin films for photonic applications. Journal of Non-Crystalline Solids, 2006, 352, 3315-3319.	3.1	13
40	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
41	The 7F0-5D0 two-photon transition: A test of theoretical models. Journal of Luminescence, 1990, 45, 162-164.	3.1	12
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	Transmission filtering of a waveguide coupled to a stub microresonator. Applied Physics Letters, 2006, 89, 101113.	3.3	10
44	Title is missing!. Journal of Sol-Gel Science and Technology, 1998, 13, 529-533.	2.4	9
45	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
46	Densification and crystallization processes of aluminosilicate planar waveguides doped with rare-earth ions. Thin Solid Films, 2001, 382, 81-85.	1.8	7
47	Raman Spectroscopic Investigations of the Effects of Ag+ and Ce3 + Doping on the Densification of Nanoporous Silica Xerogels. Journal of Sol-Gel Science and Technology, 2004, 32, 345-348.	2.4	7
48	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
49	Er3+ion concentration and annealing temperature effect on the fluorescence of Er3+:TiO2planar waveguides prepared by the sol-gel process. Radiation Effects and Defects in Solids, 1995, 135, 149-155.	1.2	6
50	Structural and textural study of the effects of metal ions on the densification kinetics of nanoporous silica xerogels. Journal of Non-Crystalline Solids, 2004, 345-346, 570-574.	3.1	5
51	Microstubs resonators integrated to bent Y-branch waveguide. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 26-31.	2.0	5
52	Infrared light on molecule-molecule and molecule-surface collisions. Physical Review A, 2015, 92, .	2.5	4
53	Selective filtering of confined optical waves in a straight waveguide coupled to lateral stubs. Journal of Optics, 2007, 9, S431-S436.	1.5	3
54	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

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55	Characterization and Effect of Hydrogen Treatment and UV Irradiation on Photosensitive Solâˆ'Gel Derived Aluminosilicate Planar Waveguides. Journal of Physical Chemistry B, 2000, 104, 926-930.	2.6	2
56	SiO 2 -SnO 2 glass-ceramic planar waveguides activated by rare earth ions. , 2009, , .		2
57	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
58	Low loss tin silica glass ceramic waveguides doped by rare earth elaborated by sol gel route. , 2009, , .		0
59	Structured blue emission in Bismuth doped fibers. Optical Materials, 2018, 84, 663-667.	3.6	0