Rui M Almeida

List of Publications by Year
in descending order

178	5,682	87888 38	95266 68
papers	citations	h-index	g-index

184	184	184	4735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural investigation of silica gel films by infrared spectroscopy. Journal of Applied Physics, 1990, 68, 4225-4232.	2.5	414
2	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. Journal of Materials Science: Materials in Medicine, 2015, 26, 115.	3.6	275
3	Solâ€“gel silica/titania-on-silicon Er/Yb-doped waveguides for optical amplification at 1.5 Î¼m. Optical Materials, 1999, 12, 1-18.	3.6	263
4	Vibrational spectra and structure of heavy metal oxide glasses. Journal of Non-Crystalline Solids, 1996, 202, 233-240.	3.1	226
5	Rare-earth-doped transparent glass ceramics. Comptes Rendus Chimie, 2002, 5, 845-854.	0.5	200
6	Characterization of silica gels by infrared reflection spectroscopy. Journal of Non-Crystalline Solids, 1990, 121, 193-197.	3.1	187
7	The evolution of TEOS to silica gel and glass by vibrational spectroscopy. Journal of Non-Crystalline Solids, 1992, 147-148, 232-237.	3.1	166
8	Vibrational spectra and structure of fluorozirconate glasses. Journal of Chemical Physics, 1981, 74, 5954-5961.	3.0	151
9	Halide glasses. Journal of Non-Crystalline Solids, 1981, 43, 309-344.	3.1	140
10	Fiber-Optic Probes for in Vivo Raman Spectroscopy in the High-Wavenumber Region. Analytical Chemistry, 2005, 77, 6747-6752.	6.5	122
11	Vibrational spectra and structure of alkali germanate glasses. Journal of Non-Crystalline Solids, 2001, 293-295, 394-401.	3.1	110
12	Detection of LO modes in glass by infrared reflection spectroscopy at oblique incidence. Physical Review B, 1992, 45, 161-170.	3.2	93
13	Photonic band gap structures by solâ€“gel processing. Current Opinion in Solid State and Materials Science, 2003, 7, 151-157.	11.5	88
14	Coatings made by solâ€“gel and chemical nanotechnology. Journal of Sol-Gel Science and Technology, 2008, 47, 203-236.	2.4	77
15	Densification of hybrid silicaâ€“titania solâ€“gel films studied by ellipsometry and FTIR. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 76, 193-199.	3.5	74
16	Structure of inorganic and hybrid SiO2 solâ€“gel coatings studied by variable incidence infrared spectroscopy. Journal of Non-Crystalline Solids, 2002, 298, 219-225.	3.1	71
17	Design of photonic structures by solâ€“gel-derived silica nanospheres. Journal of Non-Crystalline Solids, 2007, 353, 674-678.	3.1	69
18	Photonic bandgap materials and structures by solâ€“gel processing. Journal of Non-Crystalline Solids, 2003, 326-327, 405-409.	3.1	68

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19	Vibrational spectra and structure of fluoroindate glasses. Journal of Non-Crystalline Solids, 1993, 161, 105-108.	3.1	61
20	Self-absorption and radiation trapping in Er 3 + -doped TeO 2 -based glasses. Europhysics Letters, 2005, 71, 394-399.	2.0	59
21	XPS and NEXAFS studies of rare-earth doped amorphous solâ€“gel films. Journal of Non-Crystalline Solids, 1998, 232-234, 65-71.	3.1	58
22	Er3+-doped Multicomponent Silicate Glass Planar Waveguides Prepared by Sol-Gel Processing. Journal of Sol-Gel Science and Technology, 1999, 14, 209-216.	2.4	57
23	Solâ€“gel planar waveguides for integrated optics. Journal of Non-Crystalline Solids, 1999, 259, 176-181.	3.1	56
24	Optical and spectroscopic properties of germanotellurite glasses. Journal of Non-Crystalline Solids, 2011, 357, 2695-2701.	3.1	56
25	Infrared absorption and structure of chlorophosphate glasses. Journal of Non-Crystalline Solids, 1980, 40, 535-548.	3.1	54
26	Vibrational spectroscopy of glasses. Journal of Non-Crystalline Solids, 1988, 106, 347-358.	3.1	50
27	A structural interpretation of the vibrational spectra of binary fluorohafnate glasses. Journal of Chemical Physics, 1983, 78, 6502-6511.	3.0	45
28	Raman spectra and structure of fluoroaluminophosphate glasses. Journal of Non-Crystalline Solids, 2001, 284, 43-48.	3.1	44
29	Geâ”O Coordination in Cesium Germanate Glasses. Journal of Physical Chemistry B, 2007, 111, 3342-3354.	2.6	44
30	Spectroscopy and Structure of Sol-Gel Systems. Journal of Sol-Gel Science and Technology, 1998, 13, 51-59.	2.4	43
31	An alternative method to obtain direct opal photonic crystal structures. Journal of Non-Crystalline Solids, 2009, 355, 1167-1170.	3.1	43
32	Detection of LO mode in v-SiO2 by infrared diffuse reflectance spectroscopy. Journal of Non-Crystalline Solids, 1990, 119, 238-241.	3.1	41
33	Evaluation of 3D nanoâ€“macro porous bioactive glass scaffold for hard tissue engineering. Journal of Materials Science: Materials in Medicine, 2011, 22, 1195-1203.	3.6	41
34	Striation-Free, Spin-Coated Sol-Gel Optical Films. Journal of the American Ceramic Society, 1995, 78, 2254-2256.	3.8	40
35	Structural study of SiO2î—¸TiO2 solâ”gel films by X-ray absorption and photoemission spectroscopies. Journal of Non-Crystalline Solids, 1997, 217, 155-161.	3.1	40
36	Vibrational spectroscopy study of niobium germanosilicate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1875-1881.	3.1	40

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37	A model for the Geâ€“O coordination in germanate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1688-1694.	3.1	40
38	Preparation and characterization of Er3+-doped TeO2-based oxyhalide glasses. Journal of Non-Crystalline Solids, 2003, 324, 150-158.	3.1	39
39	Sintering kinetics of silica-titania sol-gel films on silicon wafers. Journal of Materials Research, 1996, 11, 353-357.	2.6	38
40	Er3+ ion dispersion in tellurium oxychloride glasses. Optical Materials, 2007, 29, 503-509.	3.6	38
41	Solâ€“gel photonic bandgap materials and structures. Journal of Non-Crystalline Solids, 2004, 345-346, 562-569.	3.1	36
42	Flexible photonic crystals for strain sensing. Optical Materials, 2011, 33, 408-412.	3.6	36
43	Preparation and Characterization of Germanium Sulfide Based Sol-Gel Planar Waveguides. Journal of Sol-Gel Science and Technology, 2000, 19, 243-248.	2.4	35
44	Photoluminescence of new Er3+-doped titanosilicate materials. Journal of Materials Chemistry, 2000, 10, 1371-1375.	6.7	34
45	Er photoluminescence enhancement in Ag-doped solâ€“gel planar waveguides. Journal of Non-Crystalline Solids, 2007, 353, 2613-2618.	3.1	33
46	High quality factor Er-doped Fabryâ€“Perot microcavities by solâ€“gel processing. Journal Physics D: Applied Physics, 2009, 42, 205104.	2.8	32
47	‹title›Optical loss mechanisms in nanocomposite sol-gel planar waveguides‹/title›. , 1997, 3136, 296.		31
48	3-D rare earth-doped colloidal photonic crystals. Optical Materials, 2009, 31, 1315-1318.	3.6	31
49	Local order around Er3+ ions in SiO2â€“TiO2â€“Al2O3 glassy films studied by EXAFS. Journal of Non-Crystalline Solids, 2001, 293-295, 118-124.	3.1	29
50	Local environment of rare-earth dopants in silicaâ€“titaniaâ€“alumina glasses: An extended x-ray absorption fine structure study at the K edges of Er and Yb. Applied Physics Letters, 2001, 78, 2676-2678.	3.3	29
51	Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. Journal of Materials Research, 2009, 24, 3495-3502.	2.6	29
52	Bioactive solâ€“gel scaffolds with dual porosity for tissue engineering. Journal of Sol-Gel Science and Technology, 2011, 57, 336-342.	2.4	29
53	Crystallization of SiO2â€“TiO2 glassy films studied by atomic force microscopy. Journal of Non-Crystalline Solids, 2000, 274, 169-174.	3.1	28
54	Er3+-doped tellurite waveguides deposited by excimer laser ablation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 65-69.	3.5	28

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55	Reversible photoluminescence quenching in Er3+-doped silicaâ€“titania planar waveguides prepared by solâ€“gel. Journal of Non-Crystalline Solids, 2003, 322, 272-277.	3.1	28
56	Optical and spectroscopic properties of rare earth-doped (80â^'x)TeO2â€“xGeO2â€“10Nb2O5â€“10K2O glasses. Journal of Luminescence, 2013, 134, 284-296.	3.1	27
57	Vibrational spectra and structure of chloro-fluorozirconate glasses. Journal of Non-Crystalline Solids, 1982, 51, 187-199.	3.1	26
58	The electrical conductivity of fluorozirconate and chloro-fluorozirconate glasses. Journal of Materials Science, 1982, 17, 2533-2538.	3.7	26
59	Sintering Anomaly in Silica-Titania Sol-Gel Films. Journal of Sol-Gel Science and Technology, 2000, 19, 651-655.	2.4	26
60	Optical Nanocomposite Planar Waveguides Doped with Rare-Earth and Noble Metal Elements. Journal of Sol-Gel Science and Technology, 2003, 26, 891-896.	2.4	26
61	Rare-earth doped photonic crystal microcavities prepared by solâ€“gel. Journal of Non-Crystalline Solids, 2007, 353, 490-493.	3.1	25
62	Crystallization behavior of SiO2â^'TiO2 sol-gel thin films. Journal of Sol-Gel Science and Technology, 1997, 8, 409-413.	2.4	24
63	Structure of Na₂Oâ€“CaOâ€“P₂O₅â€“SiO₂ Glassâ€“Ceramics with Multimodal Porosity. Journal of the American Ceramic Society, 2009, 92, 249-252.	3.8	24
64	Preparation and optical properties of solâ€“gel derived thick YAG:Ce3+ phosphor film. Optical Materials, 2012, 34, 1148-1154.	3.6	24
65	Tb3+/Yb3+ doped aluminosilicate phosphors for near infrared emission and efficient down-conversion. Journal of Luminescence, 2018, 197, 180-186.	3.1	24
66	An X-ray diffraction study of the structure of barium fluorozirconate and fluorohafnate glasses. Journal of Non-Crystalline Solids, 1984, 69, 69-80.	3.1	23
67	Silica-based sol-gel films doped with active elements. Journal of Sol-Gel Science and Technology, 1994, 2, 465-467.	2.4	23
68	Solâ€“gel processing of germanium sulfide based films. Journal of Non-Crystalline Solids, 1999, 256-257, 25-30.	3.1	21
69	Local Er(iii) environment in luminescent titanosilicates prepared from microporous precursorsElectronic supplementary information (ESI) available: Er LIII-edge k3-weighted EXAFS spectra and Fourier transforms. See http://www.rsc.org/suppdata/jm/b1/b107136j/. Journal of Materials Chemistry, 2002, 12, 1162-1168.	6.7	21
70	The structure of Er 3+ -doped oxy-fluoride transparent glass-ceramics studied by Raman scattering. Europhysics Letters, 2003, 64, 529-535.	2.0	20
71	Process optimization of solâ€“gel derived colloidal photonic crystals. Journal of Sol-Gel Science and Technology, 2007, 42, 135-143.	2.4	20
72	Glassy and nanocrystalline photonic materials and structures by solâ€“gel. Optical Materials, 2005, 27, 1718-1725.	3.6	19

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73	Structural heterogeneity in chalcogenide glass films prepared by thermal evaporation. Journal of Non-Crystalline Solids, 2007, 353, 2066-2068.	3.1	19
74	Photoluminescence from a Tb-doped photonic crystal microcavity for white light generation. Journal Physics D: Applied Physics, 2010, 43, 455101.	2.8	19
75	Erbium-Doped Tin-Silicate Solâ€“Gel-Derived Glass-Ceramic Thin Films: Effect of Environment Segregation on the Er³⁺ Emission. Science of Advanced Materials, 2015, 7, 301-308.	0.7	19
76	Title is missing!. Journal of Sol-Gel Science and Technology, 1997, 8, 377-380.	2.4	18
77	On a qualitative model for the incorporation of fluoride nano-crystals within an oxide glass network in oxy-fluoride glass-ceramics. Journal of Non-Crystalline Solids, 2004, 337, 191-195.	3.1	18
78	Rare-earth photoluminescence in solâ€“gel derived confined glass structures. Journal of Non-Crystalline Solids, 2006, 352, 475-482.	3.1	18
79	Processing optimization and optical properties of 3-D photonic crystals. Journal of Non-Crystalline Solids, 2009, 355, 1189-1192.	3.1	18
80	Optical and spectroscopic properties of Er-doped niobium germanosilicate glasses and glass ceramics. Journal of Non-Crystalline Solids, 2010, 356, 2677-2682.	3.1	18
81	Large stimulated emission cross section of Nd3+ in chlorophosphate glass. Journal of Non-Crystalline Solids, 1981, 43, 99-104.	3.1	17
82	Relationship between infrared absorption and porosity in silica-based sol-gel films. , 1994, 2288, 678.		17
83	On the origin of the Boson peak in the Raman scattering spectrum of As2S3 glass. Journal of Non-Crystalline Solids, 2001, 284, 198-202.	3.1	17
84	Nano/macroporous monolithic scaffolds prepared by the solâ€“gel method. Journal of Sol-Gel Science and Technology, 2009, 51, 42-47.	2.4	17
85	Photoluminescence in Er3+/Yb3+-doped silica-titania inverse opal structures. Journal of Sol-Gel Science and Technology, 2010, 55, 52-58.	2.4	17
86	Crystallization of niobium germanosilicate glasses. Journal of Solid State Chemistry, 2010, 183, 128-135.	2.9	17
87	X-ray photoemission study of fluorozirconate glass and related crystals. Journal of Non-Crystalline Solids, 1984, 69, 161-165.	3.1	16
88	Identification of non-bridging sulphur atoms in GeS2-Tl2S glasses. Journal of Materials Science Letters, 1987, 6, 701-704.	0.5	16
89	Comment on "Infrared-reflectance spectra of heat-treated, sol-gel-derived silica". Physical Review B, 1996, 53, 14656-14658.	3.2	16
90	Effects of thermal treatment on the structure and properties of SiO2â˜TiO2 gel films on silicon substrates. Journal of Sol-Gel Science and Technology, 1997, 8, 377-380.	2.4	16

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91	Structural anomaly in sodium germanate glasses by molecular dynamics simulation. Journal of Non-Crystalline Solids, 2001, 281, 152-161.	3.1	16
92	The effects of ZnCl2 and ErCl3 on the vibrational spectra and structure of tellurite glasses. Journal of Non-Crystalline Solids, 2006, 352, 690-694.	3.1	16
93	Photoluminescence of Erbium-Doped Silicate Sol-Gel Planar Waveguides. Journal of Sol-Gel Science and Technology, 2004, 31, 317-322.	2.4	15
94	Optical and spectroscopic characterization of germanium selenide glass films. Journal of Non-Crystalline Solids, 2009, 355, 1984-1988.	3.1	15
95	Local structure around Er3+ in GeO2â€“TeO2â€“Nb2O5â€“K2O glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2013, 377, 129-136.	3.1	15
96	The effects of oxide impurities on the optical properties of fluoride glasses. Journal of Non-Crystalline Solids, 1983, 56, 63-68.	3.1	14
97	Chapter 101 Fluoride glasses. Fundamental Theories of Physics, 1991, 15, 287-346.	0.3	14
98	Short and intermediate range structures in fluoride glasses by vibrational spectroscopy. Journal of Non-Crystalline Solids, 1992, 140, 92-97.	3.1	14
99	Up-conversion emission of aluminosilicate and titania films doped with Er3+/Yb3+ by ion implantation and sol-gel solution doping. Surface and Coatings Technology, 2018, 355, 162-168.	4.8	14
100	Physical Methods for Investigation of Halide Glass Structure. Materials Science Forum, 1985, 5-6, 427-436.	0.3	13
101	EXAFS study of Ba and La structural environments in fluorozirconate glasses. Journal of Non-Crystalline Solids, 1994, 168, 144-149.	3.1	13
102	Solâ€“gel derived germanium sulfide planar waveguides. Materials Science in Semiconductor Processing, 2000, 3, 339-344.	4.0	13
103	X-ray photoelectron spectroscopy of alkali germanate glasses. Surface and Interface Analysis, 2002, 34, 324-327.	1.8	13
104	Low-Energy Ion Scattering spectroscopy of silicate glass surfaces. Journal of Non-Crystalline Solids, 2014, 385, 124-128.	3.1	13
105	Structure and Properties of Long-Wavelength-Transmitting Halide Glasses. Journal of the American Ceramic Society, 1989, 72, 2065-2070.	3.8	12
106	Influence of the wettability of silicon substrates on the thickness of sol-gel silica films. Journal of Materials Science, 1995, 30, 3893-3896.	3.7	12
107	Planar waveguides for integrated optics prepared by sol-gel methods. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 707-719.	0.6	12
108	Vibrational spectra and structure of silica gel films spun on c-Si substrates. , 1990, , .		11

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109	Rare earth-doped photonic crystals via solâ€“gel. Journal of Materials Science: Materials in Electronics, 2009, 20, 307-311.	2.2	11
110	Simultaneous broadening and enhancement of the 1.5ÂÎ¼m photoluminescence peak of Er3+ ions embedded in a 1-D photonic crystal microcavity. Applied Physics B: Lasers and Optics, 2010, 98, 809-814.	2.2	11
111	Solâ€“gel derived photonic bandgap coatings for solar control. Optical Materials, 2011, 33, 1867-1871.	3.6	11
112	Quasi-omnidirectional total light absorption in nanostructured gold surfaces. Optical Materials Express, 2014, 4, 1236.	3.0	11
113	Morphological Design of Gold Nanopillar Arrays and Their Optical Properties. Journal of Physical Chemistry C, 2016, 120, 1178-1185.	3.1	11
114	Silica/Ormosil SPIONs for Biomedical Applications. Current Nanoscience, 2013, 9, 599-608.	1.2	11
115	Paramagnetic sites in alkali germanate glasses. Journal of Non-Crystalline Solids, 2000, 278, 19-23.	3.1	10
116	<title>Sol-gel preparation of one-dimensional photonic bandgap structures</title>. , 2002, , .		10
117	Variable incidence infrared absorption spectroscopy of gel-derived silica and titania films. Physica Status Solidi A, 2004, 201, 2941-2947.	1.7	10
118	Raman spectra and structure of multicomponent oxide planar waveguides prepared by sol-gel. Journal of Sol-Gel Science and Technology, 2006, 40, 371-378.	2.4	10
119	The potential of ion exchange in solâ€“gel derived photonic materials and structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 118-122.	3.5	10
120	Crystallization of Solgelâ€Derived Glasses. International Journal of Applied Glass Science, 2014, 5, 114-125.	2.0	10
121	Photonic crystal assisted up-converter based on Tb3+ / Yb3+ - Doped aluminosilicate glass. Optical Materials, 2018, 83, 61-67.	3.6	10
122	A vibrational spectroscopy study of the structure of binary thorium fluorohafnate glasses. Journal of Non-Crystalline Solids, 1984, 68, 203-217.	3.1	9
123	Structure of zinc halide based glasses. Journal of Non-Crystalline Solids, 1987, 95-96, 279-286.	3.1	9
124	Influence of processing parameters on the thickness of sol-gel silica films. , 1992, , .		9
125	Incorporation of OH species in fluorozirconate glasses: nature and influence on physical properties. Journal of Non-Crystalline Solids, 1996, 194, 180-190.	3.1	9
126	Morphological and optical properties of silicon thin films by PLD. Applied Surface Science, 2009, 255, 5299-5302.	6.1	9

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127	Nanostructured glass coatings for solar control with photocatalytic properties. Journal of Non-Crystalline Solids, 2013, 377, 250-253.	3.1	9
128	Adjustable YAGâ€‰:â€‰Ce³⁺photoluminescence from photonic crystal microcavity. Journal Physics D: Applied Physics, 2013, 46, 165102.	2.8	9
129	Efficiency enhancement in solid state dye sensitized solar cells by including inverse opals with controlled layer thicknesses. Photonics and Nanostructures - Fundamentals and Applications, 2016, 21, 13-18.	2.0	9
130	Lowâ€Energy Ionâ€Scattering Spectroscopy of Modified Silicate Glasses. Journal of the American Ceramic Society, 2016, 99, 1259-1265.	3.8	9
131	Frequency conversion in lanthanide-doped sol-gel derived materials for energy applications. Journal of Sol-Gel Science and Technology, 2020, 95, 520-529.	2.4	9
132	XPS studies of sulfide and selenide glasses. Journal of Non-Crystalline Solids, 1987, 95-96, 351-358.	3.1	8
133	Monolithic Glass Scaffolds with Dual Porosity Prepared by Polymerâ€Induced Phase Separation and Solâ€“Gel. Journal of the American Ceramic Society, 2010, 93, 1945-1949.	3.8	8
134	The Influence of Melting Conditions on the Physical Properties of Fluorozirconate Glasses. Materials Science Forum, 1987, 19-20, 299-304.	0.3	7
135	Preparation and characterization of amorphous ZrF4 thin films. Journal of Non-Crystalline Solids, 1995, 184, 93-97.	3.1	7
136	Compositional Profiles in Silica-Based Sol-Gel Films Doped with Erbium and Silver, by RBS and ERDA. Journal of Sol-Gel Science and Technology, 2004, 31, 287-291.	2.4	7
137	Influence of Er3+ on the early stages of crystallization of chloro-tellurite glasses studied by XRD and EXAFS. Journal of Non-Crystalline Solids, 2004, 348, 11-16.	3.1	7
138	Solâ€“gel-derived Yb:YAG polycrystalline ceramics for laser applications. Journal of Sol-Gel Science and Technology, 2017, 83, 436-446.	2.4	7
139	Heavily Yb-doped silicate glass thick films. Journal of Sol-Gel Science and Technology, 2017, 81, 105-113.	2.4	7
140	Up-conversion enhancement in Er3+/ Yb3+ doped 1-D microcavity based on alternating aluminosilicate glass and titania sol-gel layers. Ceramics International, 2020, 46, 26273-26281.	4.8	7
141	Influence of water on the physical properties of fluoride glass. Journal of Non-Crystalline Solids, 1992, 140, 52-56.	3.1	6
142	Short and medium range order in zinc halide based glasses. Journal of Non-Crystalline Solids, 1998, 232-234, 638-643.	3.1	6
143	<title>Sulfide glass optical waveguides prepared by sol-gel processing</title>. , 2000, , .		6
144	Planar waveguides for integrated optics prepared by solâ€“gel methods. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 707-719.	0.6	6

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145	Spectroscopic assessment of rare-earth activated planar waveguides and microcavities. Applied Surface Science, 2005, 248, 3-7.	6.1	6
146	Growth of lanthanide-doped YF3 thin films by pulsed liquid injection MOCVD: Influence of deposition parameters on film microstructure. Surface and Coatings Technology, 2013, 230, 22-27.	4.8	6
147	IR Absorption of Molecular Species in Fluorozirconate Glasses. Materials Science Forum, 1988, 32-33, 427-431.	0.3	5
148	Study of silicaâ€“titania films doped with Er and Ag by RBS and ERDA. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 923-927.	1.4	5
149	Rare-earth-doped Fabry-Perot microcavities by sol-gel processing. , 2004, , .		5
150	Er3+-activated silica inverse opals synthesized by the solgel method. Optoelectronics Letters, 2007, 3, 184-187.	0.8	5
151	EXAFS study of the Er3+ ion coordination in SiO2â€“TiO2â€“HfO2 solâ€“gel films. Journal of Non-Crystalline Solids, 2008, 354, 4940-4943.	3.1	5
152	Elimination of porosity in heavily rare-earth doped solâ€“gel derived silicate glass films. Journal of Sol-Gel Science and Technology, 2012, 61, 332-339.	2.4	5
153	Characterization of Sol-Gel Materials by Infrared Spectroscopy. , 2018, , 1121-1151.		5
154	XPS study of non-bridging Se atoms in As2Se3-Tl2Se glasses. Journal of Non-Crystalline Solids, 1988, 101, 18-22.	3.1	4
155	Stability of erbium and silver implanted in silicaâ€“titania solâ€“gel films. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 415-419.	1.4	4
156	Germanosilicate glassâ€“ceramics for non-linear optics. Journal of Materials Science, 2015, 50, 3477-3484.	3.7	4
157	Structural and optical studies of aluminosilicate films doped with (Tb3+, Er3+)/Yb3+ by ion implantation. Nuclear Instruments & Methods in Physics Research B, 2019, 459, 71-75.	1.4	4
158	Intermediate Range Order in Zinc Bromide Based Glasses. Materials Science Forum, 1991, 67-68, 399-404.	0.3	3
159	Physical vapor deposition of rare-earth doped ZrF4-based glass planar waveguides. Journal of Non-Crystalline Solids, 1999, 256-257, 194-199.	3.1	3
160	Phase separation in SiO₂â€“TiO₂ gel and glassy films studied by atomic force microscopy and transmission electron microscopy. Journal of Materials Research, 2001, 16, 1626-1631.	2.6	3
161	Physical and Spectroscopic Characterisation of Active Nanocrystals in Erbium-Doped Silica-Titania Sol-Gel Films. Key Engineering Materials, 2002, 230-232, 644-647.	0.4	3
162	Active Nanocrystals in Erbium-Doped Silica-Titania Sol-Gel Films. Materials Science Forum, 2004, 455-456, 545-549.	0.3	3

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163	Nucleation and Crystallization of Titania Nanoparticles in Silica Titania Planar Waveguides: a Study by Low Frequency Raman Scattering. Materials Science Forum, 2004, 455-456, 520-526.	0.3	3
164	Analysis of solâ€“gel silicaâ€“titania films doped with Ag and Er using artificial neural networks. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 804-807.	1.4	3
165	Optical spectroscopy methods for the characterization of solâ€“gel materials. Journal of Sol-Gel Science and Technology, 2021, 100, 1-43.	2.4	3
166	Structure and properties of Er and Er/Yb-doped YF3 up-conversion phosphors compared with oxide hosts through an internal standard. Materials Today Communications, 2022, 31, 103239.	1.9	3
167	Rare earth doped fluorozirconate glass films. Journal of Non-Crystalline Solids, 1997, 213-214, 251-255.	3.1	2
168	Erbium/Ytterbium-activated silica-titania planar and channel waveguides prepared by rf-sputtering. , 2003, , .		2
169	Quasi-total omnidirectional light absorption in nanostructured gold films. Applied Physics A: Materials Science and Processing, 2014, 117, 471-475.	2.3	2
170	Sol-Gel Derived Active Material for Yb Thin-Disk Lasers. Materials, 2017, 10, 1020.	2.9	2
171	Solâ€Gel Processing of Sulfide Materials. , 2018, , 403-428.		2
172	Solâ€“Gel Processing of Sulfide Materials. , 2016, , 1-26.		2
173	Characterization of Solâ€“Gel Materials by Infrared Spectroscopy. , 2016, , 1-31.		2
174	Influence of the modifying cations on physical properties of fluorozirconate glasses. Materials Research Bulletin, 1996, 31, 573-580.	5.2	1
175	One-dimensional multilayer photonic crystals. , 2020, , 75-94.		1
176	Sol-gel technologies in thin film fabrication for integrated optics lasers and amplifiers. , 1997, 10290, 172.		0
177	Polarized infrared reflectivity of fluorozirconate glasses. Journal of Non-Crystalline Solids, 1997, 213-214, 184-188.	3.1	0
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