# 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 | 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 |
| 2 | Optical spectroscopy methods for the characterization of solâ€“gel materials. Journal of Sol-Gel Science and Technology, 2021, 100, 1-43. | 2.4 | 3 |
| 3 | 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 |
| 4 | 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 |
| 5 | One-dimensional multilayer photonic crystals. , 2020, , 75-94. | | 1 |
| 6 | 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 |
| 7 | 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 |
| 8 | Tb3+/Yb3+ doped aluminosilicate phosphors for near infrared emission and efficient down-conversion. Journal of Luminescence, 2018, 197, 180-186. | 3.1 | 24 |
| 9 | Solâ€Gel Processing of Sulfide Materials. , 2018, , 403-428. | | 2 |
| 10 | Photonic crystal assisted up-converter based on Tb3+ / Yb3+ - Doped aluminosilicate glass. Optical Materials, 2018, 83, 61-67. | 3.6 | 10 |
| 11 | Characterization of Sol-Gel Materials by Infrared Spectroscopy. , 2018, , 1121-1151. | | 5 |
| 12 | Solâ€“gel-derived Yb:YAG polycrystalline ceramics for laser applications. Journal of Sol-Gel Science and Technology, 2017, 83, 436-446. | 2.4 | 7 |
| 13 | Heavily Yb-doped silicate glass thick films. Journal of Sol-Gel Science and Technology, 2017, 81, 105-113. | 2.4 | 7 |
| 14 | Sol-Gel Derived Active Material for Yb Thin-Disk Lasers. Materials, 2017, 10, 1020. | 2.9 | 2 |
| 15 | 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 |
| 16 | Lowâ€Energy Ionâ€Scattering Spectroscopy of Modified Silicate Glasses. Journal of the American Ceramic Society, 2016, 99, 1259-1265. | 3.8 | 9 |
| 17 | Morphological Design of Gold Nanopillar Arrays and Their Optical Properties. Journal of Physical Chemistry C, 2016, 120, 1178-1185. | 3.1 | 11 |
| 18 | Solâ€“Gel Processing of Sulfide Materials. , 2016, , 1-26. | | 2 |

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| 19 | Characterization of Solâ€“Gel Materials by Infrared Spectroscopy. , 2016, , 1-31. | | 2 |
| 20 | 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 |
| 21 | Germanosilicate glassâ€“ceramics for non-linear optics. Journal of Materials Science, 2015, 50, 3477-3484. | 3.7 | 4 |
| 22 | Erbium-Doped Tin-Silicate Solâ€“Gel-Derived Glass-Ceramic Thin Films: Effect of Environment Segregation on the Er<SUP>3+</SUP> Emission. Science of Advanced Materials, 2015, 7, 301-308. | 0.7 | 19 |
| 23 | Quasi-omnidirectional total light absorption in nanostructured gold surfaces. Optical Materials Express, 2014, 4, 1236. | 3.0 | 11 |
| 24 | Crystallization of Solgelâ€Đerived Glasses. International Journal of Applied Glass Science, 2014, 5, 114-125. | 2.0 | 10 |
| 25 | Quasi-total omnidirectional light absorption in nanostructured gold films. Applied Physics A: Materials Science and Processing, 2014, 117, 471-475. | 2.3 | 2 |
| 26 | Low-Energy Ion Scattering spectroscopy of silicate glass surfaces. Journal of Non-Crystalline Solids, 2014, 385, 124-128. | 3.1 | 13 |
| 27 | 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 |
| 28 | Nanostructured glass coatings for solar control with photocatalytic properties. Journal of Non-Crystalline Solids, 2013, 377, 250-253. | 3.1 | 9 |
| 29 | 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 |
| 30 | 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 |
| 31 | Adjustable YAGâ€‰:â€‰Ce<sup>3+</sup>photoluminescence from photonic crystal microcavity. Journal Physics D: Applied Physics, 2013, 46, 165102. | 2.8 | 9 |
| 32 | Silica/Ormosil SPIONs for Biomedical Applications. Current Nanoscience, 2013, 9, 599-608. | 1.2 | 11 |
| 33 | Preparation and optical properties of solâ€“gel derived thick YAG:Ce3+ phosphor film. Optical Materials, 2012, 34, 1148-1154. | 3.6 | 24 |
| 34 | 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 |
| 35 | Optical and spectroscopic properties of germanotellurite glasses. Journal of Non-Crystalline Solids, 2011, 357, 2695-2701. | 3.1 | 56 |
| 36 | Solâ€“gel derived photonic bandgap coatings for solar control. Optical Materials, 2011, 33, 1867-1871. | 3.6 | 11 |

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| 37 | 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 |
| 38 | Bioactive solâ€“gel scaffolds with dual porosity for tissue engineering. Journal of Sol-Gel Science and Technology, 2011, 57, 336-342. | 2.4 | 29 |
| 39 | Flexible photonic crystals for strain sensing. Optical Materials, 2011, 33, 408-412. | 3.6 | 36 |
| 40 | 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 |
| 41 | Photoluminescence in Er3+/Yb3+-doped silica-titania inverse opal structures. Journal of Sol-Gel Science and Technology, 2010, 55, 52-58. | 2.4 | 17 |
| 42 | Crystallization of niobium germanosilicate glasses. Journal of Solid State Chemistry, 2010, 183, 128-135. | 2.9 | 17 |
| 43 | 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 |
| 44 | 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 |
| 45 | Photoluminescence from a Tb-doped photonic crystal microcavity for white light generation. Journal Physics D: Applied Physics, 2010, 43, 455101. | 2.8 | 19 |
| 46 | Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. Journal of Materials Research, 2009, 24, 3495-3502. | 2.6 | 29 |
| 47 | Rare earth-doped photonic crystals via solâ€“gel. Journal of Materials Science: Materials in Electronics, 2009, 20, 307-311. | 2.2 | 11 |
| 48 | Nano/macroporous monolithic scaffolds prepared by the solâ€“gel method. Journal of Sol-Gel Science and Technology, 2009, 51, 42-47. | 2.4 | 17 |
| 49 | Structure of Na<sub>2</sub>Oâ€“CaOâ€“P<sub>2</sub>O<sub>5</sub>â€“SiO<sub>2</sub> Glassâ€“Ceramics with Multimodal Porosity. Journal of the American Ceramic Society, 2009, 92, 249-252. | 3.8 | 24 |
| 50 | 3-D rare earth-doped colloidal photonic crystals. Optical Materials, 2009, 31, 1315-1318. | 3.6 | 31 |
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| 52 | Processing optimization and optical properties of 3-D photonic crystals. Journal of Non-Crystalline Solids, 2009, 355, 1189-1192. | 3.1 | 18 |
| 53 | An alternative method to obtain direct opal photonic crystal structures. Journal of Non-Crystalline Solids, 2009, 355, 1167-1170. | 3.1 | 43 |
| 54 | Optical and spectroscopic characterization of germanium selenide glass films. Journal of Non-Crystalline Solids, 2009, 355, 1984-1988. | 3.1 | 15 |

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| 55 | High quality factor Er-doped Fabryâ€“Perot microcavities by solâ€“gel processing. Journal Physics D: Applied Physics, 2009, 42, 205104. | 2.8 | 32 |
| 56 | Coatings made by solâ€“gel and chemical nanotechnology. Journal of Sol-Gel Science and Technology, 2008, 47, 203-236. | 2.4 | 77 |
| 57 | 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 |
| 58 | 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 |
| 59 | Rare-earth doped photonic crystal microcavities prepared by solâ€“gel. Journal of Non-Crystalline Solids, 2007, 353, 490-493. | 3.1 | 25 |
| 60 | Design of photonic structures by solâ€“gel-derived silica nanospheres. Journal of Non-Crystalline Solids, 2007, 353, 674-678. | 3.1 | 69 |
| 61 | Vibrational spectroscopy study of niobium germanosilicate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1875-1881. | 3.1 | 40 |
| 62 | Structural heterogeneity in chalcogenide glass films prepared by thermal evaporation. Journal of Non-Crystalline Solids, 2007, 353, 2066-2068. | 3.1 | 19 |
| 63 | A model for the Geâ€“O coordination in germanate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1688-1694. | 3.1 | 40 |
| 64 | Er photoluminescence enhancement in Ag-doped solâ€“gel planar waveguides. Journal of Non-Crystalline Solids, 2007, 353, 2613-2618. | 3.1 | 33 |
| 65 | Geâ”O Coordination in Cesium Germanate Glasses. Journal of Physical Chemistry B, 2007, 111, 3342-3354. | 2.6 | 44 |
| 66 | Process optimization of solâ€“gel derived colloidal photonic crystals. Journal of Sol-Gel Science and Technology, 2007, 42, 135-143. | 2.4 | 20 |
| 67 | Er3+-activated silica inverse opals synthesized by the solgel method. Optoelectronics Letters, 2007, 3, 184-187. | 0.8 | 5 |
| 68 | Er3+ ion dispersion in tellurium oxychloride glasses. Optical Materials, 2007, 29, 503-509. | 3.6 | 38 |
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| 71 | 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 |
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| 74 | 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 |
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| 76 | Self-absorption and radiation trapping in Er 3 + -doped TeO 2 -based glasses. Europhysics Letters, 2005, 71, 394-399. | 2.0 | 59 |
| 77 | Fiber-Optic Probes for in Vivo Raman Spectroscopy in the High-Wavenumber Region. Analytical Chemistry, 2005, 77, 6747-6752. | 6.5 | 122 |
| 78 | 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 |
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| 80 | Photoluminescence of Erbium-Doped Silicate Sol-Gel Planar Waveguides. Journal of Sol-Gel Science and Technology, 2004, 31, 317-322. | 2.4 | 15 |
| 81 | Variable incidence infrared absorption spectroscopy of gel-derived silica and titania films. Physica Status Solidi A, 2004, 201, 2941-2947. | 1.7 | 10 |
| 82 | Rare-earth-doped Fabry-Perot microcavities by sol-gel processing. , 2004, , . | | 5 |
| 83 | Active Nanocrystals in Erbium-Doped Silica-Titania Sol-Gel Films. Materials Science Forum, 2004, 455-456, 545-549. | 0.3 | 3 |
| 84 | 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 |
| 85 | 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 |
| 86 | Solâ€“gel photonic bandgap materials and structures. Journal of Non-Crystalline Solids, 2004, 345-346, 562-569. | 3.1 | 36 |
| 87 | 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 |
| 88 | 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 |
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| 94 | The structure of Er 3+ -doped oxy-fluoride transparent glass-ceramics studied by Raman scattering. Europhysics Letters, 2003, 64, 529-535. | 2.0 | 20 |
| 95 | Erbium/Ytterbium-activated silica-titania planar and channel waveguides prepared by rf-sputtering. , 2003, , . | | 2 |
| 96 | 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 |
| 97 | 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 |
| 98 | <title>Sol-gel preparation of one-dimensional photonic bandgap structures</title>. , 2002, , . | | 10 |
| 99 | 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 |
| 100 | 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 |
| 101 | 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 |
| 102 | Rare-earth-doped transparent glass ceramics. Comptes Rendus Chimie, 2002, 5, 845-854. | 0.5 | 200 |
| 103 | X-ray photoelectron spectroscopy of alkali germanate glasses. Surface and Interface Analysis, 2002, 34, 324-327. | 1.8 | 13 |
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| 106 | 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 |
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| 108 | Vibrational spectra and structure of alkali germanate glasses. Journal of Non-Crystalline Solids, 2001, 293-295, 394-401. | 3.1 | 110 |

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| 109 | Phase separation in SiO<sub>2</sub>â€“TiO<sub>2</sub> gel and glassy films studied by atomic force microscopy and transmission electron microscopy. Journal of Materials Research, 2001, 16, 1626-1631. | 2.6 | 3 |
| 110 | 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 |
| 111 | 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 |
| 112 | Solâ€“gel derived germanium sulfide planar waveguides. Materials Science in Semiconductor Processing, 2000, 3, 339-344. | 4.0 | 13 |
| 113 | Sintering Anomaly in Silica-Titania Sol-Gel Films. Journal of Sol-Gel Science and Technology, 2000, 19, 651-655. | 2.4 | 26 |
| 114 | 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 |
| 115 | Crystallization of SiO2â€“TiO2 glassy films studied by atomic force microscopy. Journal of Non-Crystalline Solids, 2000, 274, 169-174. | 3.1 | 28 |
| 116 | Paramagnetic sites in alkali germanate glasses. Journal of Non-Crystalline Solids, 2000, 278, 19-23. | 3.1 | 10 |
| 117 | <title>Sulfide glass optical waveguides prepared by sol-gel processing</title>. , 2000, , . | | 6 |
| 118 | Photoluminescence of new Er3+-doped titanosilicate materials. Journal of Materials Chemistry, 2000, 10, 1371-1375. | 6.7 | 34 |
| 119 | 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 |
| 120 | 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 |
| 121 | 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 |
| 122 | Solâ€“gel processing of germanium sulfide based films. Journal of Non-Crystalline Solids, 1999, 256-257, 25-30. | 3.1 | 21 |
| 123 | Solâ€“gel planar waveguides for integrated optics. Journal of Non-Crystalline Solids, 1999, 259, 176-181. | 3.1 | 56 |
| 124 | Spectroscopy and Structure of Sol-Gel Systems. Journal of Sol-Gel Science and Technology, 1998, 13, 51-59. | 2.4 | 43 |
| 125 | Short and medium range order in zinc halide based glasses. Journal of Non-Crystalline Solids, 1998, 232-234, 638-643. | 3.1 | 6 |
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| 129 | Rare earth doped fluorozirconate glass films. Journal of Non-Crystalline Solids, 1997, 213-214, 251-255. | 3.1 | 2 |
| 130 | Polarized infrared reflectivity of fluorozirconate glasses. Journal of Non-Crystalline Solids, 1997, 213-214, 184-188. | 3.1 | 0 |
| 131 | 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 |
| 132 | Title is missing!. Journal of Sol-Gel Science and Technology, 1997, 8, 377-380. | 2.4 | 18 |
| 133 | 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 |
| 134 | Crystallization behavior of SiO2â˜TiO2 sol-gel thin films. Journal of Sol-Gel Science and Technology, 1997, 8, 409-413. | 2.4 | 24 |
| 135 | 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 |
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| 147 | Influence of processing parameters on the thickness of sol-gel silica films. , 1992, , . | | 9 |
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| 150 | Short and intermediate range structures in fluoride glasses by vibrational spectroscopy. Journal of Non-Crystalline Solids, 1992, 140, 92-97. | 3.1 | 14 |
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| 152 | Intermediate Range Order in Zinc Bromide Based Glasses. Materials Science Forum, 1991, 67-68, 399-404. | 0.3 | 3 |
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| 155 | Structural investigation of silica gel films by infrared spectroscopy. Journal of Applied Physics, 1990, 68, 4225-4232. | 2.5 | 414 |
| 156 | Characterization of silica gels by infrared reflection spectroscopy. Journal of Non-Crystalline Solids, 1990, 121, 193-197. | 3.1 | 187 |
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| 158 | Structure and Properties of Long-Wavelength-Transmitting Halide Glasses. Journal of the American Ceramic Society, 1989, 72, 2065-2070. | 3.8 | 12 |
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| 161 | IR Absorption of Molecular Species in Fluorozirconate Glasses. Materials Science Forum, 1988, 32-33, 427-431. | 0.3 | 5 |
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