

Andrea Chiappini

List of Publications by Year in descending order

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177
papers

2,234
citations

218381

26
h-index

315357

38
g-index

179
all docs

179
docs citations

179
times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamond photonics platform enabled by femtosecond laser writing. <i>Scientific Reports</i> , 2016, 6, 35566.	1.6	96
2	Glass optical waveguides: a review of fabrication techniques. <i>Optical Engineering</i> , 2014, 53, 071819.	0.5	89
3	Design of photonic structures by sol-gel-derived silica nanospheres. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 674-678.	1.5	69
4	One-step synthesis of star-shaped gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 623-628.	2.3	60
5	Integrated waveguides and deterministically positioned nitrogen vacancy centers in diamond created by femtosecond laser writing. <i>Optics Letters</i> , 2018, 43, 3586.	1.7	59
6	Sol-gel-derived photonic structures: fabrication, assessment, and application. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 408-425.	1.1	54
7	Low-loss optical Er ³⁺ -activated glass-ceramics planar waveguides fabricated by bottom-up approach. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	50
8	Erbium activated HfO ₂ based glass-ceramics waveguides for photonics. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 494-497.	1.5	50
9	Visible to NIR downconversion process in Tb ³⁺ -Yb ³⁺ codoped silica-hafnia glass and glass-ceramic sol-gel waveguides for solar cells. <i>Journal of Luminescence</i> , 2018, 193, 44-50.	1.5	49
10	Tb ³⁺ /Yb ³⁺ co-activated Silica-Hafnia glass ceramic waveguides. <i>Optical Materials</i> , 2010, 33, 227-230.	1.7	47
11	Optical spectroscopy of TeO ₂ -GeO ₂ glasses activated with Er ³⁺ and Tm ³⁺ ions. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1759-1763.	1.5	43
12	An alternative method to obtain direct opal photonic crystal structures. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1167-1170.	1.5	43
13	High quality factor Er ³⁺ -activated dielectric microcavity fabricated by rf sputtering. <i>Applied Physics Letters</i> , 2006, 89, 171910.	1.5	41
14	Femtosecond laser written photonic and microfluidic circuits in diamond. <i>JPhys Photonics</i> , 2019, 1, 022001.	2.2	40
15	Rare-earth-activated glass-ceramic waveguides. <i>Optical Materials</i> , 2010, 32, 1644-1647.	1.7	37
16	Erbium-activated silica-titania planar waveguides on silica-on-silicon substrates prepared by rf sputtering. <i>Journal of Non-Crystalline Solids</i> , 2001, 284, 230-236.	1.5	35
17	Experimental investigation of photonic band gap influence on enhancement of Raman-scattering in metal-dielectric colloidal crystals. <i>Journal of Applied Physics</i> , 2012, 112, 084303.	1.1	35
18	Molecular Imprinted Polymers Coupled to Photonic Structures in Biosensors: The State of Art. <i>Sensors</i> , 2020, 20, 5069.	2.1	35

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19	High quality factor Er-doped Fabry-Perot microcavities by sol-gel processing. Journal Physics D: Applied Physics, 2009, 42, 205104.	1.3	32
20	3-D rare earth-doped colloidal photonic crystals. Optical Materials, 2009, 31, 1315-1318.	1.7	31
21	Quantum Micro-Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation. Advanced Quantum Technologies, 2019, 2, 1900006.	1.8	31
22	2D-MoS2 goes 3D: transferring optoelectronic properties of 2D MoS2 to a large-area thin film. Npj 2D Materials and Applications, 2021, 5, .	3.9	31
23	Er ³⁺ -doped silica-hafnia films for optical waveguides and spherical resonators. Journal of Non-Crystalline Solids, 2009, 355, 1853-1860.	1.5	29
24	Photonic Crystal Stimuli-Responsive Chromatic Sensors: A Short Review. Micromachines, 2020, 11, 290.	1.4	29
25	Gold nanoparticles 1D array as mechanochromic strain sensor. Materials Chemistry and Physics, 2017, 192, 94-99.	2.0	28
26	Tailoring of the free spectral range and geometrical cavity dispersion of a microsphere by a coating layer. Optics Letters, 2014, 39, 5173.	1.7	27
27	Ultra-low thermal conductivity and improved thermoelectric performance in disordered nanostructured copper tin sulphide (Cu ₂ SnS ₃ , CTS). Journal of Alloys and Compounds, 2020, 830, 154604.	2.8	27
28	Visible to Infrared Diamond Photonics Enabled by Focused Femtosecond Laser Pulses. Micromachines, 2017, 8, 60.	1.4	26
29	Flash cold sintering: Combining water and electricity. Journal of the European Ceramic Society, 2020, 40, 6266-6271.	2.8	26
30	Er ³⁺ /Yb ³⁺ -activated silica-titania planar waveguides for EDPWAs fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2003, 322, 289-294.	1.5	25
31	Rare-earth doped photonic crystal microcavities prepared by sol-gel. Journal of Non-Crystalline Solids, 2007, 353, 490-493.	1.5	25
32	Synthesis, structure and spectroscopic properties of luminescent GdVO ₄ :Dy ³⁺ and DyVO ₄ particles. Optical Materials, 2018, 76, 308-316.	1.7	25
33	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. Journal Physics D: Applied Physics, 2009, 42, 205106.	1.3	24
34	Structural and spectroscopic properties of Eu ³⁺ -activated nanocrystalline tetraphosphates loaded in silica-hafnia thin film. Journal of Non-Crystalline Solids, 2014, 401, 32-35.	1.5	24
35	Photoluminescence and lasing in whispering gallery mode glass microspherical resonators. Journal of Luminescence, 2016, 170, 755-760.	1.5	24
36	The development of sol-gel derived TiO ₂ thin films and corresponding memristor architectures. RSC Advances, 2017, 7, 1654-1663.	1.7	24

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37	Preparation and characterization of ZnO particles embedded in organic-inorganic planar waveguide by sol-gel route. Journal of Non-Crystalline Solids, 2009, 355, 1132-1135.	1.5	23
38	Laser surface structuring of diamond with ultrashort Bessel beams. Scientific Reports, 2018, 8, 14021.	1.6	23
39	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS ₂ Thin Films with Superior Electronic Properties: A Memristive Case. ACS Applied Materials & Interfaces, 2018, 10, 34392-34400.	4.0	22
40	Photonic crystals for monitoring fatigue phenomena in steel structures. , 2009, , .		21
41	Pulsed Bessel beam-induced microchannels on a diamond surface for versatile microfluidic and sensing applications. Optical Materials Express, 2017, 7, 1962.	1.6	21
42	Polarized micro-Raman studies of femtosecond laser written stress-induced optical waveguides in diamond. Applied Physics Letters, 2018, 112, .	1.5	21
43	Nanocomposite Er-Ag silicate glasses. Journal of Optics, 2006, 8, S450-S454.	1.5	20
44	Erbium-activated modified silica glasses with high 413/2 luminescence quantum yield. Optical Materials, 2006, 28, 1325-1328.	1.7	19
45	Er ³⁺ -activated silica-hafnia glass-ceramics planar waveguides. , 2006, 6183, 438.		19
46	About the role of phase matching between a coated microsphere and a tapered fiber: experimental study. Optics Express, 2013, 21, 20954.	1.7	19
47	Comparison between glass and glass-ceramic silica-hafnia matrices on the down-conversion efficiency of Tb ³⁺ /Yb ³⁺ rare earth ions. Optical Materials, 2019, 87, 102-106.	1.7	19
48	Er ³⁺ /Yb ³⁺ -activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2009, 355, 1176-1179.	1.5	18
49	Light-opals interaction modeling by direct numerical solution of Maxwell's equations. Optics Express, 2014, 22, 27739.	1.7	18
50	Photoluminescence in Er ³⁺ /Yb ³⁺ -doped silica-titania inverse opal structures. Journal of Sol-Gel Science and Technology, 2010, 55, 52-58.	1.1	17
51	Assessment of SnO ₂ -nanocrystal-based luminescent glass-ceramic waveguides for integrated photonics. Ceramics International, 2021, 47, 5534-5541.	2.3	17
52	Solvent sensitive polymer composite structures. Optical Materials, 2013, 36, 130-134.	1.7	16
53	Whispering gallery mode profiles in a coated microsphere. European Physical Journal: Special Topics, 2014, 223, 1959-1969.	1.2	16
54	Structural and luminescence study of Ce ³⁺ and Tb ³⁺ doped Ca ₃ Sc ₂ Si ₃ O ₁₂ garnets obtained by freeze-drying synthesis method. Optical Materials, 2015, 46, 109-114.	1.7	16

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55	Sol-gel synthesis and characterization of undoped and Al-doped ZnO thin films for memristive application. <i>AIP Advances</i> , 2016, 6, .	0.6	16
56	Synthesis and Post-Annealing of Cu ₂ ZnSnS ₄ Absorber Layers Based on Oleylamine/1-dodecanethiol. <i>Materials</i> , 2019, 12, 3320.	1.3	16
57	Synthesis and characterization of PMMA-based superhydrophobic surfaces. <i>Colloid and Polymer Science</i> , 2012, 290, 315-322.	1.0	15
58	Morphologic, structural, and optical characterization of sol-gel derived TiO ₂ thin films for memristive devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 192-196.	0.8	15
59	Sol-gel-derived photonic structures handling erbium ions luminescence. <i>Optical and Quantum Electronics</i> , 2015, 47, 117-124.	1.5	15
60	Thermoelectric properties of CZTS thin films: effect of Cu-Zn disorder. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13148-13158.	1.3	15
61	2D Optical Gratings Based on Hexagonal Voids on Transparent Elastomeric Substrate. <i>Micromachines</i> , 2018, 9, 345.	1.4	14
62	Fabrication and optical properties of assembled gold nanoparticles film on elastomeric substrate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 431-437.	2.3	13
63	Towards low voltage resistive switch in sol-gel derived TiO ₂ /Ta ₂ O ₅ stack thin films. <i>Materials and Design</i> , 2016, 105, 359-365.	3.3	13
64	Study of graphitic microstructure formation in diamond bulk by pulsed Bessel beam laser writing. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	13
65	Fluorescent Aptamer Immobilization on Inverse Colloidal Crystals. <i>Sensors</i> , 2018, 18, 4326.	2.1	12
66	Colloidal crystals based portable chromatic sensor for butanol isomers and water mixtures detection. <i>Optical Materials</i> , 2019, 90, 152-158.	1.7	12
67	Frequency converter layers based on terbium and ytterbium activated HfO ₂ glass-ceramics. <i>Proceedings of SPIE</i> , 2010, , .	0.8	10
68	Structural and optical investigation of nanocrystalline lithium lanthanum praseodymium tetraphosphate powders. <i>Journal of Alloys and Compounds</i> , 2016, 687, 733-740.	2.8	10
69	Er ³⁺ -activated sol-gel silica confined structures for photonic applications. <i>Optical Materials</i> , 2009, 31, 1275-1279.	1.7	9
70	Highly photorefractive Eu ³⁺ activated sol-gel SiO ₂ -SnO ₂ thin film waveguides. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
71	Thermo optical coefficient of tin-oxide films measured by ellipsometry. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	9
72	Enhancement of X-ray-Excited Red Luminescence of Chromium-Doped Zinc Gallate via Ultrasmall Silicon Carbide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 2457-2465.	3.2	9

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73	Effect of Hydrothermal Treatment and Doping on the Microstructural Features of Sol-Gel Derived BaTiO ₃ Nanoparticles. <i>Materials</i> , 2021, 14, 4345.	1.3	9
74	Rare Earth-Activated Silica-Based Nanocomposites. <i>Journal of Nanomaterials</i> , 2007, 2007, 1-6.	1.5	8
75	Design and fabrication of mechanochromic photonic crystals as strain sensor. <i>Proceedings of SPIE</i> , 2015, , .	0.8	8
76	Quasi-hemispherical voids micropatterned PDMS as strain sensor. <i>Optical Materials</i> , 2018, 86, 408-413.	1.7	8
77	Rare-earth-doped silica-based glasses for photonic applications. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 753-756.	1.5	7
78	Spectroscopic assessment of rare-earth activated planar waveguides and microcavities. <i>Applied Surface Science</i> , 2005, 248, 3-7.	3.1	6
79	Diagnostic techniques for photonic materials based on Raman and Brillouin spectroscopies. <i>Optoelectronics Letters</i> , 2007, 3, 188-191.	0.4	6
80	Photonic properties and applications of glass micro- and nanospheres. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 898-903.	0.8	6
81	Glass-Ceramic waveguides: Fabrication and properties. , 2010, , .		6
82	Fabrication and characterization of colloidal crystals infiltrated with metallic nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6
83	Erbium doped silica-hafnia glass ceramic waveguides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2875-2879.	0.8	6
84	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , 2017, 72, 626-631.	1.7	6
85	Pulsed laser deposition of Er ³⁺ -doped oxyfluoride thin films. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1810-1813.	1.5	5
86	Fabrication and optical assessment of sol-gel-derived photonic bandgap dielectric structures. , 2006, 6182, 454.		5
87	Er ³⁺ -activated silica inverse opals synthesized by the solgel method. <i>Optoelectronics Letters</i> , 2007, 3, 184-187.	0.4	5
88	Photonic properties of erbium activated coated microspheres. , 2008, , .		5
89	Structural investigation of photonic materials at the nanolevel using XPS. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1157-1159.	1.5	5
90	Spatially localized UV-induced crystallization of SnO ₂ in photorefractive SiO ₂ -SnO ₂ thin film. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5

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91	Parallel finite-difference time-domain modeling of an opal photonic crystal. <i>Optical Engineering</i> , 2014, 53, 071809.	0.5	5
92	Influence of phosphorous precursors on spectroscopic properties of Er ³⁺ -activated SiO ₂ -HfO ₂ -P ₂ O ₅ planar waveguides. <i>Journal of Physics: Conference Series</i> , 2014, 566, 012018.	0.3	5
93	Rare-earth doped materials for optical waveguides. , 2015, , .		5
94	Fractional-Order Theory of Thermoelasticity. I: Generalization of the Fourier Equation. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, 04017164.	1.6	5
95	Class ceramics for frequency conversion. , 2020, , 391-414.		5
96	Opal-Based Photonic Crystal Heterostructures. <i>Optics and Photonics Journal</i> , 2012, 02, 206-210.	0.3	5
97	Optical and spectroscopic properties of erbium-activated modified silica glass with 1.54 μ m high quantum efficiency. , 2005, , .		4
98	Glass-based erbium activated micro-nano photonic structures. , 2009, , .		4
99	Photonic glass-ceramics: consolidated outcomes and prospects. , 2015, , .		4
100	Fabrication and characterization of Er ⁺³ doped SiO ₂ /SnO ₂ glass-ceramic thin films for planar waveguide applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 73, 012102.	0.3	4
101	Synthesis of MoS ₂ Thin Film by Ionized Jet Deposition: Role of Substrate and Working Parameters. <i>Surfaces</i> , 2020, 3, 683-693.	1.0	4
102	Unravelling Work Function Contributions and Their Engineering in 2H-MoS ₂ Single Crystal Discovered by Molecular Probe Interaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6732-6740.	1.5	4
103	SiO ₂ -SnO ₂ transparent glass-ceramics activated by rare earth ions. , 2019, , .		4
104	Multimodal Gold Nanostars as SERS Tags for Optically-Driven Doxorubicin Release Study in Cancer Cells. <i>Materials</i> , 2021, 14, 7272.	1.3	4
105	Glass Microspherical Lasers. <i>Advances in Science and Technology</i> , 2008, 55, 46-55.	0.2	3
106	Micro-Raman mapping of micro-gratings in Baccarat glass directly written using femtosecond laser. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
107	Micro resonator stabilization by thin film coating. , 2009, , .		3
108	Opal-Type Photonic Crystals: Fabrication and Application. <i>Advances in Science and Technology</i> , 0, , .	0.2	3

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109	Glass-ceramics for photonics: Advances and perspectives. , 2014, , .		3
110	Lasing and mode selection in erbium doped 70SiO ₂ -30HfO ₂ coated microspheres. Optical Materials, 2019, 87, 98-101.	1.7	3
111	SiO ₂ -SnO ₂ :Er ³⁺ planar waveguides: Highly photorefractive glass-ceramics. Optical Materials: X, 2020, 7, 100056.	0.3	3
112	Radiation propagation in a hierarchical solar volumetric absorber: Results of single-photon avalanche diode measurements and Monte Carlo ray tracing analysis. Renewable Energy, 2021, 180, 482-493.	4.3	3
113	Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2016, , 1-43.		3
114	Optical properties of Tb^{3+} and Er^{3+} ions in silica glass-ceramics. Journal of Non-Crystalline Solids, 2017, 459, 1-10.	1.7	3
115	Erbium/Ytterbium-activated silica-titania planar and channel waveguides prepared by rf-sputtering. , 2003, , .		2
116	Nanocomposite photonic glasses and confined structures optimizing Er ³⁺ -luminescent properties. , 2007, , .		2
117	Ceramization of erbium activated planar waveguides by bottom up technique. , 2007, , .		2
118	Erbium-Activated Silica-Hafnia: a Reliable Photonic System. , 2008, , .		2
119	SiO ₂ -SnO ₂ glass-ceramic planar waveguides activated by rare earth ions. , 2009, , .		2
120	Er ³⁺ -activated photonic structures fabricated by sol-gel and rf-sputtering techniques. , 2009, , .		2
121	A parallel computational FDTD approach to the analysis of the light scattering from an opal photonic crystal. Proceedings of SPIE, 2013, , .	0.8	2
122	Finite difference analysis and experimental validation of 3D photonic crystals for structural health monitoring. , 2017, , .		2
123	Effect of dye on the band gap of 3D polystyrene photonic crystals. Proceedings of SPIE, 2009, , .	0.8	2
124	Er ³⁺ /Yb ³⁺ -activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. , 2006, 6183, 173.		1
125	Homogeneous and nanocomposite rare-earth-activated glasses for photonic devices. , 2006, , .		1
126	Electron confinement effects in silver nanocluster embedded in sodalime glasses. , 2008, , .		1

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127	Fabrication and Spectroscopic Properties of Glass-Based Erbium Activated Micro-Nano Photonic Structures. , 2008, , .		1
128	Preparation and characterization of ZnO particles embedded in organic-inorganic planar waveguide by sol-gel route. Proceedings of SPIE, 2008, , .	0.8	1
129	Fabrication, assessment, and application of confined structures in photonic glasses. , 2009, , .		1
130	Fabrication and characterization of confined structures for sensing and lasing applications. Proceedings of SPIE, 2010, , .	0.8	1
131	Rare " Earth " Doped Silicate Glass " Ceramic Thin Films for Integrated Optical Devices. Advances in Science and Technology, 0, , .	0.2	1
132	Hybrid colloidal crystal for photonic application. , 2011, , .		1
133	Spherical resonators coated by glass and glass-ceramic films. Proceedings of SPIE, 2012, , .	0.8	1
134	Glass-based confined structures fabricated by sol-gel and radio frequency sputtering. Optical Engineering, 2014, 53, 071804.	0.5	1
135	Glass-ceramics for photonics: Laser material processing. , 2015, , .		1
136	Fractional-Order Theory of Thermoelasticity. II: Quasi-Static Behavior of Bars. Journal of Engineering Mechanics - ASCE, 2018, 144, 04017165.	1.6	1
137	SiO ₂ -SnO ₂ Photonic Glass-Ceramics. , 2019, , .		1
138	Modification of the Near-Infrared Spontaneous Emission in Er ³⁺ -Activated Inverse Silica Opals. Physica Status Solidi (B): Basic Research, 2020, 257, 1900476.	0.7	1
139	Assessment of the mechanical and optical properties of buckling periodic elastic materials as optical force sensors. Optical Materials, 2020, 110, 110507.	1.7	1
140	Luminescent sol-gel-derived micro and nanoparticles. , 2018, , .		1
141	Synthesis, structure and spectroscopic assessment of luminescent GdVO ₄ :Dy ³⁺ and DyVO ₄ nanoparticles. , 2018, , .		1
142	Solid solution enhanced electrostriction in the YSZ-GDC system. Open Ceramics, 2022, 9, 100206.	1.0	1
143	Spectroscopic properties of Er ³⁺ -activated Ag-exchanged silicate and phosphate glasses. , 2005, , .		0
144	Fabrication by rf-sputtering and diagnostics of Er ³⁺ /Yb ³⁺ - activated silicahafnia waveguides. , 2007, , .		0

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145	Fabrication of Er ³⁺ active silica direct and inverse opals with high quantum efficiency. , 2007, , .		0
146	Nanocomposite Photonic Glasses, Waveguiding Glass Ceramics and Confined Structures Tailoring Er ³⁺ Spectroscopic Properties. , 2007, , .		0
147	Tailoring Er ³⁺ spectroscopic properties by nanocomposite photonic glasses and confined structures. , 2007, , .		0
148	Er ³⁺ -activated nanocomposite photonic glasses and confined structures. Optical Materials, 2009, 31, 1071-1074.	1.7	0
149	Noble metal nanoparticles functionalized with novel organic luminophores. , 2009, , .		0
150	Modeling of nano- and micro-spheres for sensing applications. , 2009, , .		0
151	ELECTRONIC CONFINEMENT OF SILVER NANOCCLUSERS IN Er ³⁺ -ACTIVATED SILICATE AND PHOSPHATE GLASSES. , 2009, , .		0
152	Characterisation of thin LPCVD silicon-rich oxide films. Proceedings of SPIE, 2011, , .	0.8	0
153	Tailoring the optical properties by colloidal systems. , 2012, , .		0
154	Low-Loss Erbium Activated Silica-Tin Oxide Planar Waveguides. , 2012, , .		0
155	Glass-Based Sub-Wavelength Photonic Structures. , 2013, , .		0
156	Tailored spectroscopic and optical properties in rare earth-activated glass-ceramics planar waveguides. , 2013, , .		0
157	Red photonic glasses and confined structures. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2014, 62, 647-653.	0.8	0
158	Glass-Based Photonic Crystals: From Fabrication to Applications. Advances in Science and Technology, 0, , .	0.2	0
159	Innovative Micro- and Nanostructured Materials and Devices for Energy Applications. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.0	0
160	Coated spherical microresonators for cutting-edge photonics application. , 2014, , .		0
161	Strain-sensitive photonic crystals for sensing applications in structural health monitoring. , 2015, , .		0
162	Photonic crystal slab strain sensors: A viable tool for structural health monitoring. , 2016, , .		0

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163	Femtosecond laser written photonic circuits in diamond for quantum information. , 2016, , .		0
164	Bulk diamond optical waveguides fabricated by focused femtosecond laser pulses. , 2017, , .		0
165	Pulsed Bessel beam-induced high aspect ratio microstructures on diamond substrate for microfluidics and biosensing applications. , 2017, , .		0
166	Femtosecond laser processing for single NV-waveguide integration in diamond. , 2017, , .		0
167	Lasing in Er ³⁺ doped microspheres. , 2018, , .		0
168	Evaluation of pressure load on platform screen doors in a metro system. , 2009, , .		0
169	Glass-based confined structures enabling light control. AIP Conference Proceedings, 2015, , .	0.3	0
170	Mechanochromic Photonic Crystals for Structural Health Monitoring. , 0, , .		0
171	Femtosecond laser written diamond photonics. , 2018, , .		0
172	Active Sol-Gel Materials, Fluorescence Spectra, and Lifetimes. , 2018, , 1607-1649.		0
173	Lasing properties of Er ³⁺ activated SiO ₂ -HfO ₂ coated microspheres. , 2018, , .		0
174	Glass photonic structures fabricated by sol-gel route. , 2018, , .		0
175	Passive and active whispering gallery mode microresonators in optical engineering. , 2019, , .		0
176	3D-photonic crystals: Opal structures. , 2020, , 113-144.		0
177	Comparison of energy transfer between Terbium and Ytterbium ions in glass and glass ceramic: Application in photovoltaic. Solar Energy Advances, 2022, 2, 100012.	1.2	0