Xunsi Wang

List of Publications by Year
in descending order

123 papers	2,177 citations	257450 24 h-index	315739 38 g-index
126 all docs	126 docs citations	126 times ranked	1503 citing authors

#	Article	IF	Citations
1	Water-induced ultrastrong green emission in Cs₄PbBr₆ quantum dot glass. Journal of Materials Chemistry C, 2022, 10, 762-767.	5.5	9
2	Mid-Infrared Single-Mode Ge-As-S Fiber for High Power Laser Delivery. Journal of Lightwave Technology, 2022, 40, 2151-2156.	4.6	7
3	Fabrication of Fresnel zone plate in chalcogenide glass and fiber end with femtosecond laser direct writing. Infrared Physics and Technology, 2022, 120, 104004.	2.9	6
4	Hexagonal rare-earth-doped double-clad chalcogenide glass fiber with high absorption efficiency. Optical Materials Express, 2022, 12, 436.	3.0	2
5	High-coupling efficiency and robust fusion splicing between fluorotellurite and chalcogenide fibers. Infrared Physics and Technology, 2022, 122, 104075.	2.9	3
6	Research on a novel chalcohalide glass and its physical optics properties. Infrared Physics and Technology, 2022, 122, 104079.	2.9	0
7	Influence of extrusion on the properties of chalcogenide glasses and fibers. Optics Communications, 2022, 513, 128091.	2.1	3
8	Low-loss single-mode Geâ€"Asâ€"Sâ€"Se glass fiber and its supercontinuum generation for mid-infrared. Optics Communications, 2022, 515, 128189.	2.1	0
9	Single-mode suspended large-core chalcohalide fiber with a low zero-dispersion wavelength for supercontinuum generation. Optics Express, 2022, 30, 641.	3.4	4
10	Se-H-free As₂Se₃ fiber and its spectral applications in the mid-infrared. Optics Express, 2022, 30, 24072.	3.4	3
11	Ultraâ€large mode area midâ€infrared fiber based on chalcogenide glasses extrusion. Journal of the American Ceramic Society, 2021, 104, 343-349.	3.8	6
12	Research on determining of cations in GeAsSeI chalcohalide glass. Journal of Non-Crystalline Solids, 2021, 553, 120466.	3.1	0
13	Large mode-area chalcogenide multicore fiber prepared by continuous two-stage extrusion. Optical Materials Express, 2021, 11, 791.	3.0	7
14	Arsenic-free low-loss sulfide glass fiber for mid-infrared supercontinuum generation. Infrared Physics and Technology, 2021, 113, 103618.	2.9	10
15	A W-Type Double-Cladding IR Fiber With Ultra-High Numerical Aperture. Journal of Lightwave Technology, 2021, 39, 2158-2163.	4.6	1
16	Diffraction Grating Fabricated on Chalcogenide Glass Fiber End Surfaces With Femtosecond Laser Direct Writing. Journal of Lightwave Technology, 2021, 39, 2136-2141.	4.6	4
17	High extinctionâ€ratio microstructure fiber based on chalcogenide glasses. Journal of the American Ceramic Society, 2021, 104, 5671-5678.	3.8	0
18	Mid-infrared single-Mode As-S-Se glass fiber and its supercontinuum generation. Journal of Non-Crystalline Solids, 2021, 567, 120925.	3.1	4

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19	A Gas-Liquid Sensor Functionalized With Graphene-Oxide on Chalcogenide Tapered Fiber by Chemical Etching. Journal of Lightwave Technology, 2021, 39, 6976-6984.	4.6	11
20	Iodine-doped Ge-As-Se glasses with high purity and low dispersion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 117885.	3.9	7
21	Dispersion tuning and supercontinuum generating in novel W-typed chalcogenide fiber. Infrared Physics and Technology, 2020, 111, 103538.	2.9	5
22	Low-Loss Chalcogenide Fiber Prepared by Double Peeled-Off Extrusion. Journal of Lightwave Technology, 2020, 38, 4533-4539.	4.6	12
23	Arsenic Sulfide Suspended-core Fiber Simulation with Three Parabolic Air Holes for Supercontinuum Generation. Photonics, 2020, 7, 46.	2.0	0
24	Structured active fiber fabrication and characterization of a chemically highâ€purified Dy³⁺â€doped chalcogenide glass. Journal of the American Ceramic Society, 2020, 103, 2432-2442.	3.8	13
25	Dispersion-tunable chalcogenide tri-cladding fiber based on novel continuous two-stage extrusion. Optical Materials Express, 2020, 10, 1034.	3.0	4
26	Mid-Infrared Gas Detection Using a Chalcogenide Suspended-Core Fiber. Journal of Lightwave Technology, 2019, 37, 5193-5198.	4.6	12
27	1.8â€“13 Î¼m supercontinuum generation by pumping at normal dispersion regime of Asâ€“Seâ€“Te glass fiber. Journal of the American Ceramic Society, 2019, 102, 5025-5032.	3.8	6
28	A novel chalcohalide fiber with high nonlinearity and low material zeroâ€dispersion via extrusion. Journal of the American Ceramic Society, 2019, 102, 5172-5179.	3.8	23
29	Mid-infrared supercontinuum in well-structured As Se fibers based on peeled-extrusion. Optical Materials, 2019, 89, 402-407.	3.6	21
30	Mid-infrared flattened supercontinuum generation in all-normal dispersion tellurium chalcogenide fiber. Optics Express, 2019, 27, 2036.	3.4	62
31	Ultrabroadband and coherent mid-infrared supercontinuum generation in Te-based chalcogenide tapered fiber with all-normal dispersion. Optics Express, 2019, 27, 10311.	3.4	46
32	12â€“152â€‰â€‰Î¼m supercontinuum generation in a low-loss chalcohalide fiber pumped at a deep anomalous-dispersion region. Optics Letters, 2019, 44, 5545.	3.3	24
33	Mid-infrared supercontinuum generation in low-loss single-mode Te-rich chalcogenide fiber. Optical Materials Express, 2019, 9, 3487.	3.0	7
34	Extruded seven-core tellurium chalcogenide fiber for mid-infrared. Optical Materials Express, 2019, 9, 3863.	3.0	8
35	Supercontinuum generation and analysis in extruded suspended-core As2S3 chalcogenide fibers. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
36	Infrared Suspended-Core Fiber Fabrication Based on Stacked Chalcogenide Glass Extrusion. Journal of Lightwave Technology, 2018, 36, 2416-2421.	4.6	18

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37	Mid-infrared supercontinuum generation spanning from 1.9 to 5.7 Î¼m in a chalcogenide fiber taper with ultra-high NA. Infrared Physics and Technology, 2018, 88, 102-105.	2.9	6
38	Broadband mid-infrared supercontinuum generation in novel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml18" display="inline" overflow="scroll" altimg="si18.gif"><mml:msub><mml:mrow><mml:mi mathvariant="normal">As</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:n mathvariant="normal">Se</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mtext>-</mml mathvariant="normal">As</mml:mi></mml:m. Optics Communications, 2018, 410, 410-415.	2.1	17
39	Experimental investigation on the high-order modes in supercontinuum generation from step-index Asâ€“S fibers. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	8
40	Mid-infrared supercontinuum generation in a suspended-core tellurium-based chalcogenide fiber. Optical Materials Express, 2018, 8, 1341.	3.0	18
41	A Review of Mid-Infrared Supercontinuum Generation in Chalcogenide Glass Fibers. Applied Sciences (Switzerland), 2018, 8, 707.	2.5	81
42	Fabrication and Characterization of Three-hole As₂S₃ Suspended-Core Fibers Based on Robust Extrusion. IEEE Access, 2018, 6, 41093-41098.	4.2	4
43	All-optical switching in long-period fiber grating with highly nonlinear chalcogenide fibers. Applied Optics, 2018, 57, 10044.	1.8	25
44	Mid-infrared supercontinuum generation in a three-hole Ge 20 Sb 15 Se 65 chalcogenide suspended-core fiber. Optical Fiber Technology, 2017, 34, 74-79.	2.7	22
45	Midâ€infrared supercontinuum covering 2.0â€“16ÂÎ¼m in a lowâ€loss telluride singleâ€mode fiber. Laser and Photonics Reviews, 2017, 11, 1700005.	8.7	136
46	Mid-infrared supercontinuum covering 2.0-16ÂÎ¼m in a low-loss telluride single-mode fiber (Laser) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.7	12
47	Structure design and numerical evaluation of highly nonlinear suspended-core chalcogenide fibers. Journal of Non-Crystalline Solids, 2017, 464, 44-50.	3.1	13
48	Fabrication and characterization of chalcogenide polarization-maintaining fibers based on extrusion. Optical Fiber Technology, 2017, 39, 26-31.	2.7	8
49	Fabrication and characterization of mid-infrared emission of Pr³⁺ doped selenide chalcogenide glasses and fibres. RSC Advances, 2017, 7, 41520-41526.	3.6	27
50	Polishing parameter optimization for end-surface of chalcogenide glass fiber connector. Optical Fiber Technology, 2017, 38, 41-45.	2.7	8
51	SRI-Immune Highly Sensitive Temperature Sensor of Long-Period Fiber Gratings in Geâ€“Sbâ€“Se Chalcogenide Fibers. Journal of Lightwave Technology, 2017, 35, 3974-3979.	4.6	19
52	Midinfrared Supercontinuum Generation in As2Se3â€“As2S3 Chalcogenide Glass Fiber With High NA. Journal of Lightwave Technology, 2017, 35, 2464-2469.	4.6	19
53	Fabrication and characterization of bare Ge-Sb-Se chalcogenide glass fiber taper. Infrared Physics and Technology, 2017, 80, 105-111.	2.9	19
54	14â€“72â€‰â€‰Î¼m broadband supercontinuum generation in an As-S chalcogenide tapered fiber pumped in the normal dispersion regime. Optics Letters, 2017, 42, 3458.	3.3	46

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55	Improvement of Swanepoel method for deriving the thickness and the optical properties of chalcogenide thin films. Optics Express, 2017, 25, 440.	3.4	48
56	Broadband mid-infrared supercontinuum generation in 1-meter-long As_2S_3-based fiber with ultra-large core diameter. Optics Express, 2016, 24, 28400.	3.4	16
57	Simulation and fabrication of micro-structured optical fibers with extruded tubes. Optik, 2016, 127, 8240-8247.	2.9	5
58	Influence of the selenium content on thermo-mechanical and optical properties of Geâ€“Gaâ€“Sbâ€“S chalcogenide glasses. Infrared Physics and Technology, 2016, 77, 21-26.	2.9	15
59	As 40 S 59 Se 1 /As 2 S 3 step index fiber for 1â€“5 Î¼m supercontinuum generation. Journal of Non-Crystalline Solids, 2016, 450, 61-65.	3.1	12
60	Fabrication and characterization of Ge_20As_20Se_15Te_45 chalcogenide glass for photonic crystal by nanoimprint lithography. Optical Materials Express, 2016, 6, 1853.	3.0	8
61	Ultrabroad supercontinuum generated from a highly nonlinear Geâ€“Sbâ€“Se fiber. Optics Letters, 2016, 41, 3201.	3.3	73
62	Optical properties of Ag- and AgI-doped Geâ€“Gaâ€“Te far-infrared chalcogenide glasses. Infrared Physics and Technology, 2016, 76, 698-703.	2.9	19
63	Preparation of chalcogenide glass fiber using an improved extrusion method. Optical Engineering, 2016, 55, 056114.	1.0	26
64	15â€“14â€‰â€‰Î¼m midinfrared supercontinuum generation in a low-loss Te-based chalcogenide step-index fiber. Optics Letters, 2016, 41, 5222.	3.3	78
65	Fabrication of an IR hollow-core Bragg fiber based on chalcogenide glass extrusion. Applied Physics A: Materials Science and Processing, 2015, 119, 455-460.	2.3	15
66	Freely adjusted properties in Geâ€“S based chalcogenide glasses with iodine incorporation. Infrared Physics and Technology, 2015, 69, 118-122.	2.9	10
67	Fabrication and characterization of multimaterial chalcogenide glass fiber tapers with high numerical apertures. Optics Express, 2015, 23, 23472.	3.4	48
68	Novel Geâ€“Gaâ€“Teâ€“CsBr glass system with ultrahigh resolvability of halide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 737-741.	3.9	6
69	Novel NaI improved Geâ€“Gaâ€“Te far-infrared chalcogenide glasses. Infrared Physics and Technology, 2015, 72, 148-152.	2.9	12
70	Improvements on the optical properties of Geâ€“Sbâ€“Se chalcogenide glasses with iodine incorporation. Infrared Physics and Technology, 2015, 73, 54-61.	2.9	26
71	Fabrication of chalcogenide glass photonic crystal fibers with mechanical drilling. Optical Fiber Technology, 2015, 26, 176-179.	2.7	54
72	Enhanced 2.7 Î¼m mid-infrared emission and energy transfer mechanism in Er3+/Nd3+ codoped tellurite glass. Journal of Alloys and Compounds, 2015, 618, 666-672.	5.5	36

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73	Robust multimaterial tellurium-based chalcogenide glass fibers for mid-wave and long-wave infrared transmission. Optics Letters, 2014, 39, 4009.	3.3	34
74	Sb-rich Znâ€“Sbâ€“Te phase-change materials: A candidate for the trade-off between crystallization speed and data retention. Applied Physics Express, 2014, 7, 105801.	2.4	8
75	Glass formation and properties of Geâ€“Gaâ€“Teâ€“ZnI2 far infrared chalcohalide glasses. Journal of Non-Crystalline Solids, 2014, 383, 212-215.	3.1	14
76	Fabrication and characterization of Ge20Sb15S65 chalcogenide glass for photonic crystal fibers. Applied Physics B: Lasers and Optics, 2014, 116, 653-658.	2.2	40
77	Preparation of Low-loss Ge 15 Ga 10 Te 75 chalcogenide glass for far-IR optics applications. Infrared Physics and Technology, 2014, 65, 77-82.	2.9	17
78	Er3+/Tm3+ codoped tellurite glass for blue upconversionâ€"Structure, thermal stability and spectroscopic properties. Journal of Luminescence, 2014, 146, 141-149.	3.1	21
79	Fast crystallization and low-power amorphization of Mgâ€“Sbâ€“Te reversible phase-change films. CrystEngComm, 2014, 16, 7401-7405.	2.6	6
80	Tm3+/Ho3+/Yb3+ codoped tellurite glass for multicolor emission â€“ Structure, thermal stability and spectroscopic properties. Journal of Alloys and Compounds, 2014, 609, 14-20.	5.5	20
81	Multicolor upconversion emission and energy transfer mechanism in Er3+/Tm3+/Yb3+ codoped tellurite glasses. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 147, 155-163.	2.3	10
82	Influence of WO3 on the spectroscopic properties and thermal stability of Er3+/Ce3+ codoped tellurite glasses. Optical Materials, 2013, 35, 1526-1531.	3.6	8
83	Enhancement of the 1.53Î¼m fluorescence and energy transfer in Er3+/Yb3+/Ce3+ tri-doped WO3 modified tellurite-based glass. Journal of Alloys and Compounds, 2013, 581, 534-541.	5.5	18
84	Luminescence properties and energy transfer mechanism of Er3+/Tm3+ co-doped tellurite glasses. Journal of Alloys and Compounds, 2013, 556, 221-227.	5.5	18
85	Optical properties of Geâ€“Teâ€“Ga doping Al and AlCl3 far infrared transmitting chalcogenide glasses. Infrared Physics and Technology, 2013, 58, 1-4.	2.9	13
86	Glass formation and optical properties of Geâ€“Teâ€“Gaâ€“CuI far-IR transmitting chalcogenide glasses. Infrared Physics and Technology, 2013, 60, 129-133.	2.9	9
87	Structural investigation of Te-based chalcogenide glasses using Raman spectroscopy. Infrared Physics and Technology, 2012, 55, 316-319.	2.9	37
88	Effect of SnI2 on the thermal and optical properties of Geâ€“Seâ€“Te glasses. Infrared Physics and Technology, 2012, 55, 275-278.	2.9	7
89	Te-based chalcogenide films with high thermal stability for phase change memory. Journal of Applied Physics, 2012, 111, 093514.	2.5	4
90	Investigations of Geâ€“Teâ€“AgI chalcogenide glass for far-infrared application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 586-589.	3.9	48

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91	New far-infrared transmitting Te-based chalcogenide glasses. Journal of Applied Physics, 2011, 110, 043536.	2.5	23
92	Enhanced mid-IR luminescence of Tm3+ ions in Ga2S3 nanocrystals embedded chalcohalide glass ceramics. Journal of Non-Crystalline Solids, 2011, 357, 2302-2305.	3.1	23
93	Influence of silver nanoclusters on formation of PbS quantum dots in glasses. Journal of Non-Crystalline Solids, 2011, 357, 2428-2430.	3.1	25
94	Glass formation and third-order optical nonlinear properties within TeO2â€"Bi2O3â€"BaO pseudo-ternary system. Journal of Non-Crystalline Solids, 2011, 357, 2219-2222.	3.1	42
95	H2O influence evaluating and mid-IR fluorescence quenching in Tm3+-doped GeGaSCsI chalcohalide glasses. Journal of Non-Crystalline Solids, 2011, 357, 2403-2408.	3.1	3
96	Preparation and third-order optical nonlinearity of glass ceramics based on GeS2â€"Ga2S3â€"CsCl pseudo-ternary system. Journal of Non-Crystalline Solids, 2011, 357, 2316-2319.	3.1	20
97	Nonlinear optical properties in bismuth-based glasses. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 61-64.	1.0	8
98	Investigation of 2.9 Î¼m luminescence properties and energy transfer in Tm3+/Dy3+ co-doped chalcohalide glasses. Journal of Rare Earths, 2011, 29, 105-108.	4.8	20
99	Compositional dependence of the optical properties of novel Geâ€"Gaâ€"Teâ€"CsI far infrared transmitting chalcohalide glasses system. Journal of Physics and Chemistry of Solids, 2011, 72, 5-9.	4.0	17
100	Effect of silver nanoparticles on spectroscopic properties of Er³⁺-doped bismuth glass. , 2011, , .		1
101	Observation of surface plasmon resonance of silver particles and enhanced third-order optical nonlinearities in AgCl doped Bi2O3â€"B2O3â€"SiO2 ternary glasses. Materials Research Bulletin, 2010, 45, 1501-1505.	5.2	24
102	Temperature dependence of upconversion luminescence in erbium-doped tellurite glasses. Journal of Luminescence, 2010, 130, 1353-1356.	3.1	24
103	Composition dependence of optical band gap of the Seâ€"Geâ€"Te far infrared transmitting glasses. Physica B: Condensed Matter, 2010, 405, 4424-4428.	2.7	18
104	Glass formation and properties of GeTe4â€"Ga2Te3â€"AgX (X=I/Br/Cl) far infrared transmitting chalcohalide glasses. Optics Communications, 2010, 283, 4004-4007.	2.1	23
105	Linear and non-linear characteristics of tellurite glasses within TeO2â€"Bi2O3â€"TiO2 ternary system. Optical Materials, 2010, 32, 868-872.	3.6	48
106	Effect of CuI on the formation and properties of Te-based far infrared transmitting chalcogenide glasses. Infrared Physics and Technology, 2010, 53, 392-395.	2.9	8
107	The near- and mid-infrared emission properties of Tm3+-doped GeGaSâ€"CsI chalcogenide glasses. Journal of Non-Crystalline Solids, 2010, 356, 2424-2428.	3.1	21
108	Preparation and optical nonlinearities of transparent bismuth-based glass ceramics embedded with Bi2O3 microcrystals. Journal of Non-Crystalline Solids, 2010, 356, 2786-2789.	3.1	11

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109	Microcrystalline and third-order nonlinearities of TeO<inf>2</inf>-Bi<inf>2</inf>O<inf>3</inf>-Nd<inf>2</inf>O<inf>5</inf>-TiO<inf>2</inf> quaternary glasses. , 2009, , .		0
110	Glass formation and optical band gap studies on Bi2O3-B2O3-BaO ternary system. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 716-720.	1.0	24
111	Tm3+/Yb3+co-doped tellurite glass for broadband optical amplifying over bands. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 543-546.	3.9	9
112	Crystallization behavior of GeSe2â€“Ga2Se3â€“CsI glasses studied by Differential Thermal Analysis. Physica B: Condensed Matter, 2009, 404, 223-226.	2.7	9
113	Investigation on energy transfer from Er3+ to Nd3+ in tellurite glass. Journal of Rare Earths, 2008, 26, 899-903.	4.8	13
114	Tm3+-doped tellurite glass with Yb3+ energy sensitized for broadband amplifier at 1400â€“1700 nm bands. Journal of Rare Earths, 2008, 26, 907-911.	4.8	16
115	Fabrication and gain performance of Er3+/Yb3+-codoped tellurite glass fiber. Journal of Rare Earths, 2008, 26, 915-918.	4.8	8
116	Effect of Ce3+ on the spectroscopic properties in Er3+ doped TeO2â€“GeO2â€“Nb2O5â€“Li2O glasses. Journal of Luminescence, 2007, 126, 273-277.	3.1	17
117	Erbium Doped Tellurite Glasses for Potential Infrared Sensor Applification. , 2006, , .		0
118	The Optic Spectroscopic Analysis&Application in Rare earth doped Bismuth-Tellurite Glasses. , 2006, , .		1
119	Optical transitions and upconversion luminescence of Er3+-doped tellurite glass. Physica B: Condensed Matter, 2006, 381, 219-223.	2.7	21
120	Investigation of concentration quenching in Er3+:Bi2O3â€“B2O3â€“SiO2 glasses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 330-333.	2.1	12
121	Frequency upconversion properties of Er3+/Yb3+-codoped leadâ€“germaniumâ€“bismuth oxide glasses. Materials Research Bulletin, 2006, 41, 1496-1502.	5.2	7
122	Spectroscopic Properties from Er3+/Yb3+ Co-doped Tellurite Glass and Fiber. , 2006, , .		0
123	Spectroscopic properties of Er³⁺ doped novel tellurite glass for 1.5 μm amplification. , 2006, , .		0