Xunsi Wang

List of Publications by Year
in descending order

#	Article	IF	Citations
1	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
2	A Review of Mid-Infrared Supercontinuum Generation in Chalcogenide Glass Fibers. Applied Sciences (Switzerland), 2018, 8, 707.	2.5	81
3	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
4	Ultrabroad supercontinuum generated from a highly nonlinear Geâ€“Sbâ€“Se fiber. Optics Letters, 2016, 41, 3201.	3.3	73
5	Mid-infrared flattened supercontinuum generation in all-normal dispersion tellurium chalcogenide fiber. Optics Express, 2019, 27, 2036.	3.4	62
6	Fabrication of chalcogenide glass photonic crystal fibers with mechanical drilling. Optical Fiber Technology, 2015, 26, 176-179.	2.7	54
7	Linear and non-linear characteristics of tellurite glasses within TeO2â€“Bi2O3â€“TiO2 ternary system. Optical Materials, 2010, 32, 868-872.	3.6	48
8	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
9	Fabrication and characterization of multimaterial chalcogenide glass fiber tapers with high numerical apertures. Optics Express, 2015, 23, 23472.	3.4	48
10	Improvement of Swanepoel method for deriving the thickness and the optical properties of chalcogenide thin films. Optics Express, 2017, 25, 440.	3.4	48
11	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
12	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
13	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
14	Fabrication and characterization of Ge20Sb15S65 chalcogenide glass for photonic crystal fibers. Applied Physics B: Lasers and Optics, 2014, 116, 653-658.	2.2	40
15	Structural investigation of Te-based chalcogenide glasses using Raman spectroscopy. Infrared Physics and Technology, 2012, 55, 316-319.	2.9	37
16	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
17	Robust multimaterial tellurium-based chalcogenide glass fibers for mid-wave and long-wave infrared transmission. Optics Letters, 2014, 39, 4009.	3.3	34
18	Fabrication and characterization of mid-infrared emission of Pr³⁺ doped selenide chalcogenide glasses and fibres. RSC Advances, 2017, 7, 41520-41526.	3.6	27

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19	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
20	Preparation of chalcogenide glass fiber using an improved extrusion method. Optical Engineering, 2016, 55, 056114.	1.0	26
21	Influence of silver nanoclusters on formation of PbS quantum dots in glasses. Journal of Non-Crystalline Solids, 2011, 357, 2428-2430.	3.1	25
22	All-optical switching in long-period fiber grating with highly nonlinear chalcogenide fibers. Applied Optics, 2018, 57, 10044.	1.8	25
23	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
24	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
25	Temperature dependence of upconversion luminescence in erbium-doped tellurite glasses. Journal of Luminescence, 2010, 130, 1353-1356.	3.1	24
26	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
27	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
28	New far-infrared transmitting Te-based chalcogenide glasses. Journal of Applied Physics, 2011, 110, 043536.	2.5	23
29	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
30	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
31	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
32	Optical transitions and upconversion luminescence of Er3+-doped tellurite glass. Physica B: Condensed Matter, 2006, 381, 219-223.	2.7	21
33	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
34	Er3+/Tm3+ codoped tellurite glass for blue upconversionâ€"Structure, thermal stability and spectroscopic properties. Journal of Luminescence, 2014, 146, 141-149.	3.1	21
35	Mid-infrared supercontinuum in well-structured As Se fibers based on peeled-extrusion. Optical Materials, 2019, 89, 402-407.	3.6	21
36	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

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37	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
38	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
39	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
40	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
41	Midinfrared Supercontinuum Generation in As2Se3â€"As2S3 Chalcogenide Glass Fiber With High NA. Journal of Lightwave Technology, 2017, 35, 2464-2469.	4.6	19
42	Fabrication and characterization of bare Ge-Sb-Se chalcogenide glass fiber taper. Infrared Physics and Technology, 2017, 80, 105-111.	2.9	19
43	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
44	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
45	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
46	Infrared Suspended-Core Fiber Fabrication Based on Stacked Chalcogenide Glass Extrusion. Journal of Lightwave Technology, 2018, 36, 2416-2421.	4.6	18
47	Mid-infrared supercontinuum generation in a suspended-core tellurium-based chalcogenide fiber. Optical Materials Express, 2018, 8, 1341.	3.0	18
48	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
49	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
50	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
51	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><mm mathvariant="normal">Se</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mtext>-</m mathvariant="normal">As</mml:mi></mml:m. Optics Communications, 2018, 410, 410-415.	2.1	17
52	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
53	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
54	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

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55	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
56	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
57	Investigation on energy transfer from Er3+ to Nd3+ in tellurite glass. Journal of Rare Earths, 2008, 26, 899-903.	4.8	13
58	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
59	Structure design and numerical evaluation of highly nonlinear suspended-core chalcogenide fibers. Journal of Non-Crystalline Solids, 2017, 464, 44-50.	3.1	13
60	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
61	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
62	Novel NaI improved Geâ€“Gaâ€“Te far-infrared chalcogenide glasses. Infrared Physics and Technology, 2015, 72, 148-152.	2.9	12
63	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
64	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
65	Mid-Infrared Gas Detection Using a Chalcogenide Suspended-Core Fiber. Journal of Lightwave Technology, 2019, 37, 5193-5198.	4.6	12
66	Low-Loss Chalcogenide Fiber Prepared by Double Peeled-Off Extrusion. Journal of Lightwave Technology, 2020, 38, 4533-4539.	4.6	12
67	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
68	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
69	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
70	Freely adjusted properties in Geâ€“S based chalcogenide glasses with iodine incorporation. Infrared Physics and Technology, 2015, 69, 118-122.	2.9	10
71	Arsenic-free low-loss sulfide glass fiber for mid-infrared supercontinuum generation. Infrared Physics and Technology, 2021, 113, 103618.	2.9	10
72	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

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73	Crystallization behavior of GeSe2â€“Ga2Se3â€“CsI glasses studied by Differential Thermal Analysis. Physica B: Condensed Matter, 2009, 404, 223-226.	2.7	9
74	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
75	Water-induced ultrastrong green emission in Cs₄PbBr₆ quantum dot glass. Journal of Materials Chemistry C, 2022, 10, 762-767.	5.5	9
76	Fabrication and gain performance of Er3+/Yb3+-codoped tellurite glass fiber. Journal of Rare Earths, 2008, 26, 915-918.	4.8	8
77	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
78	Nonlinear optical properties in bismuth-based glasses. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 61-64.	1.0	8
79	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
80	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
81	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
82	Fabrication and characterization of chalcogenide polarization-maintaining fibers based on extrusion. Optical Fiber Technology, 2017, 39, 26-31.	2.7	8
83	Polishing parameter optimization for end-surface of chalcogenide glass fiber connector. Optical Fiber Technology, 2017, 38, 41-45.	2.7	8
84	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
85	Extruded seven-core tellurium chalcogenide fiber for mid-infrared. Optical Materials Express, 2019, 9, 3863.	3.0	8
86	Frequency upconversion properties of Er3+/Yb3+-codoped leadâ€“germaniumâ€“bismuth oxide glasses. Materials Research Bulletin, 2006, 41, 1496-1502.	5.2	7
87	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
88	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
89	Large mode-area chalcogenide multicore fiber prepared by continuous two-stage extrusion. Optical Materials Express, 2021, 11, 791.	3.0	7
90	Mid-infrared supercontinuum generation in low-loss single-mode Te-rich chalcogenide fiber. Optical Materials Express, 2019, 9, 3487.	3.0	7

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91	Mid-Infrared Single-Mode Ge-As-S Fiber for High Power Laser Delivery. Journal of Lightwave Technology, 2022, 40, 2151-2156.	4.6	7
92	Fast crystallization and low-power amorphization of Mgâ€“Sbâ€“Te reversible phase-change films. CrystEngComm, 2014, 16, 7401-7405.	2.6	6
93	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
94	Supercontinuum generation and analysis in extruded suspended-core As2S3 chalcogenide fibers. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
95	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
96	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
97	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
98	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
99	Simulation and fabrication of micro-structured optical fibers with extruded tubes. Optik, 2016, 127, 8240-8247.	2.9	5
100	Dispersion tuning and supercontinuum generating in novel W-typed chalcogenide fiber. Infrared Physics and Technology, 2020, 111, 103538.	2.9	5
101	Te-based chalcogenide films with high thermal stability for phase change memory. Journal of Applied Physics, 2012, 111, 093514.	2.5	4
102	Fabrication and Characterization of Three-hole As₂S₃ Suspended-Core Fibers Based on Robust Extrusion. IEEE Access, 2018, 6, 41093-41098.	4.2	4
103	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
104	Mid-infrared single-Mode As-S-Se glass fiber and its supercontinuum generation. Journal of Non-Crystalline Solids, 2021, 567, 120925.	3.1	4
105	Dispersion-tunable chalcogenide tri-cladding fiber based on novel continuous two-stage extrusion. Optical Materials Express, 2020, 10, 1034.	3.0	4
106	Single-mode suspended large-core chalcohalide fiber with a low zero-dispersion wavelength for supercontinuum generation. Optics Express, 2022, 30, 641.	3.4	4
107	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
108	High-coupling efficiency and robust fusion splicing between fluorotellurite and chalcogenide fibers. Infrared Physics and Technology, 2022, 122, 104075.	2.9	3

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109	Influence of extrusion on the properties of chalcogenide glasses and fibers. Optics Communications, 2022, 513, 128091.	2.1	3
110	Se-H-free As₂Se₃ fiber and its spectral applications in the mid-infrared. Optics Express, 2022, 30, 24072.	3.4	3
111	Hexagonal rare-earth-doped double-clad chalcogenide glass fiber with high absorption efficiency. Optical Materials Express, 2022, 12, 436.	3.0	2
112	The Optic Spectroscopic Analysis&Application in Rare earth doped Bismuth-Tellurite Glasses. , 2006, , .		1
113	Effect of silver nanoparticles on spectroscopic properties of Er³⁺-doped bismuth glass. , 2011, , .		1
114	A W-Type Double-Cladding IR Fiber With Ultra-High Numerical Aperture. Journal of Lightwave Technology, 2021, 39, 2158-2163.	4.6	1
115	Erbium Doped Tellurite Glasses for Potential Infrared Sensor Appliification. , 2006, , .		0
116	Spectroscopic Properties from Er3+/Yb3+ Co-doped Tellurite Glass and Fiber. , 2006, , .		0
117	Spectroscopic properties of Er³⁺ doped novel tellurite glass for 1.5 μm amplification. , 2006, , .		0
118	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
119	Arsenic Sulfide Suspended-core Fiber Simulation with Three Parabolic Air Holes for Supercontinuum Generation. Photonics, 2020, 7, 46.	2.0	0
120	Research on determining of cations in GeAsSeI chalcohalide glass. Journal of Non-Crystalline Solids, 2021, 553, 120466.	3.1	0
121	High extinctionâ€ratio microstructure fiber based on chalcogenide glasses. Journal of the American Ceramic Society, 2021, 104, 5671-5678.	3.8	0
122	Research on a novel chalcohalide glass and its physical optics properties. Infrared Physics and Technology, 2022, 122, 104079.	2.9	0
123	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