Wei Tao

List of Publications by Year
in descending order

77 papers	2,143 citations	172457 29 h-index	265206 42 g-index
77 all docs	77 docs citations	77 times ranked	947 citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of etching selectivity and microstructure of Ag-doped Sb₂Te thin film for dry lithography. Semiconductor Science and Technology, 2022, 37, 035004.	2.0	6
2	High quantum efficiency of 1.8ÂÎ¼m luminescence in Tm3+ fluoride tellurite glass. Infrared Physics and Technology, 2022, 123, 104055.	2.9	10
3	Dimensional Stability Ground Test and in-Orbit Prediction of SiC Telescope Frame for Space Gravitational Wave Detection. IEEE Access, 2022, 10, 21041-21047.	4.2	2
4	High optical/color contrast of Sb2Te thin film and its structural origin. Materials Science in Semiconductor Processing, 2022, 144, 106619.	4.0	8
5	A phosphorus-doped g-C3N4 nanosheets as an efficient and sensitive fluorescent probe for Fe3+ detection. Optical Materials, 2021, 119, 111393.	3.6	9
6	Supramolecular Copolymerization Strategy for Realizing the Broadband White Light Luminescence Based on N-Deficient Porous Graphitic Carbon Nitride (g-C₃N₄). ACS Applied Materials & Interfaces, 2020, 12, 6396-6406.	8.0	54
7	A new whole family perovskites quantum dots (CsPbX3, X=Cl, Br, I) phosphate glasses with full spectral emissions. Journal of Alloys and Compounds, 2020, 817, 153338.	5.5	33
8	Effect of introduction of TiO2 and GeO2 oxides on thermal stability and 2â€¯Î¼m luminescence properties of tellurite glasses. Ceramics International, 2019, 45, 16411-16416.	4.8	24
9	Effect of the heat treatment conditions on the structure and 2 micron luminescence of thulium-doped oxyfluoride silicate glass-ceramics. Journal of Luminescence, 2019, 211, 418-425.	3.1	3
10	Fe3+-selective and sensitive â€œon-offâ€•fluorescence probe based on the graphitic carbon nitride nanosheets. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 210, 341-347.	3.9	17
11	Efficient manipulation of 2.0â€¯Âµm mid-infrared luminescence in silicate glass by structural engineering. Ceramics International, 2019, 45, 3435-3440.	4.8	3
12	Broadband 2â€¯Î¼m emission characteristics and energy transfer mechanism of Ho3+ doped silicate-germanate glass sensitized by Tm3+ ions. Optics and Laser Technology, 2019, 111, 115-120.	4.6	30
13	2.75â€¯Î¼m spectroscopic properties and energy transfer mechanism in Er/Ho codoped fluorotellurite glasses. Journal of Alloys and Compounds, 2018, 744, 502-506.	5.5	12
14	Analysis of mid-infrared photoluminescence around 2.85â€¯Î¼m in Yb3+/Ho3+ co-doped synthetic silica-germanate glass. Infrared Physics and Technology, 2018, 89, 363-368.	2.9	12
15	Efficient 2â€¯Î¼m emission and energy transfer mechanism of Ho3+ doped fluorophosphate glass sensitized by Er3+ ions. Infrared Physics and Technology, 2018, 91, 200-205.	2.9	7
16	Investigation of Tm3+/Yb3+ co-doped germanateâ€“tellurite glasses for efficient 2ÂÂµm mid-infrared laser materials. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	14
17	Tm3+-doped lead silicate glass sensitized by Er3+ for efficient ~2 Î¼m mid-infrared laser material. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 199, 65-70.	3.9	24
18	Broadening and enhancing 27â€‰â€‰Î¼m emission spectra in Er/Ho co-doped oxyfluoride germanosilicate glass ceramics by imparting multiple local structures to rare earth ions. Photonics Research, 2018, 6, 339.	7.0	35

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19	Grayscale image recording on Ge2Sb2Te5 thin films through laser-induced structural evolution. Scientific Reports, 2017, 7, 42712.	3.3	25
20	Spectroscopic properties and energy transfer process in Tm 3+ -doped Silica-germanate glasses. Journal of Luminescence, 2017, 187, 205-210.	3.1	19
21	High-speed maskless nanolithography with visible light based on photothermal localization. Scientific Reports, 2017, 7, 43892.	3.3	25
22	An efficient 2.0 Î¼m emission of Er 3+ /Ho 3+ co-doped lead silicate glass. Infrared Physics and Technology, 2017, 83, 1-6.	2.9	11
23	2 Î¼m emission performance in Tm3+/Er3+ codoped silicate glasses under 800 nm and 980 nm excitation. Infrared Physics and Technology, 2017, 81, 21-26.	2.9	2
24	Broadband 2 Âµm fluorescence and energy transfer process in Tm3+ doped germanosilicate glass. Journal of Luminescence, 2017, 190, 76-80.	3.1	18
25	Efficient 2 Âµm emission in Nd 3+ /Ho 3+ co-doped silicate-germanate glass pumped by common 808 nm LD. Optics and Laser Technology, 2017, 89, 108-113.	4.6	21
26	Manipulation and simulations of thermal field profiles in laser heat-mode lithography. Journal of Applied Physics, 2017, 122, .	2.5	7
27	Spectroscopy of thulium and holmium co-doped silicate glasses. Optical Materials Express, 2016, 6, 2252.	3.0	37
28	Spectroscopic properties and energy transfer mechanism in Dy3+/Tm3+ codoped fluoroaluminate glasses modified by TeO2. Ceramics International, 2016, 42, 132-137.	4.8	16
29	Origin of arbitrary patterns by direct laser writing in a telluride thin film. RSC Advances, 2016, 6, 45748-45752.	3.6	8
30	Ho 3+ doped germanate-tellurite glass sensitized by Er 3+ and Yb 3+ for efficient 2.0 Î¼m laser material. Materials Research Bulletin, 2016, 84, 124-131.	5.2	30
31	Thermal and luminescent properties of 2â€‰â€‰Î¼m emission in thulium-sensitized holmium-doped silicate-germanate glass. Photonics Research, 2016, 4, 214.	7.0	38
32	Enhanced effect of Er 3+ ions on 2.0 and 2.85ÂÎ¼m emission of Ho 3+ /Yb 3+ doped germanate-tellurite glass. Optical Materials, 2016, 60, 252-257.	3.6	26
33	Enhanced 2.7- and 2.9-Î¼m emissions in Er 3+ /Ho 3+ doped fluoride glasses sensitized by Pr 3+ ions. Materials Research Bulletin, 2016, 76, 67-71.	5.2	39
34	2.7 Î¼m emissions in Er 3+ : NaYF 4 embedded aluminosilicate glass ceramics. Ceramics International, 2016, 42, 1332-1338.	4.8	20
35	R2O3 (R = La, Y) modified erbium activated germanate glasses for mid-infrared 2.7 Î¼m laser materials. Scientific Reports, 2015, 5, 13056.	3.3	15
36	The influence of TeO2 on thermal stability and 1.53Î¼m spectroscopic properties in Er3+ doped oxyfluorite glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 162-169.	3.9	11

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37	Broadband 2Î¼m fluorescence and energy transfer evaluation in Ho3+/Er3+ codoped germanosilicate glass. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 161, 95-104.	2.3	23
38	Effect of TeO2 addition on thermal stabilities and 2.7 Î¼m emission properties of fluoroaluminateâ€“tellurite glass. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 93-101.	2.3	8
39	Observation of Midinfrared 4-$mu ext{m}$ Emission in Ho³⁺-Doped Fluoroaluminate Glasses. IEEE Photonics Technology Letters, 2015, 27, 959-962.	2.5	2
40	Mid-infrared emission properties and energy transfer evaluation in Tm3+ doped fluorophosphate glasses. Journal of Luminescence, 2015, 162, 58-62.	3.1	36
41	2Î¼m fluorescence of Ho3+:5I7â†'5I8 transition sensitized by Er3+ in tellurite germanate glasses. Optical Materials, 2015, 49, 116-122.	3.6	40
42	Highly efficient mid-infrared 2 Î¼m emission in Ho^3+/Yb^3+-codoped germanate glass. Optical Materials Express, 2015, 5, 1431.	3.0	41
43	Analysis of energy transfer process based emission spectra of erbium doped germanate glasses for mid-infrared laser materials. Journal of Alloys and Compounds, 2015, 626, 165-172.	5.5	52
44	Mid-infrared fluorescence of Y2O3 and Nb2O5 modified germanate glasses doped with Er3+ pumped by 808nm LD. Optical Materials, 2014, 36, 1350-1356.	3.6	9
45	Structure and spectroscopic properties of Er3+ doped germanate glass for mid-infrared application. Solid State Sciences, 2014, 31, 54-61.	3.2	14
46	Ho3+ doped fluorophosphate glasses sensitized by Yb3+ for efficient 2Î¼m laser applications. Optics Communications, 2014, 321, 183-188.	2.1	34
47	Analysis of structure origin and luminescence properties of Yb3+â€“Er3+ co-doped fluorophosphate glass. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 129, 235-240.	3.9	1
48	2.7Î¼m fluorescence and energy transfer in Er3+ doped germanosilicate glasses. Materials Research Bulletin, 2014, 54, 20-23.	5.2	7
49	Broadband near-infrared emission property in Er3+/Ce3+ co-doped silicaâ€"germanate glass for fiber amplifier. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 53-58.	3.9	18
50	Analysis on energy transfer process of Ho 3+ doped fluoroaluminate glass sensitized by Yb 3+ for mid-infrared 2.85 Î¼m emission. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 41-50.	2.3	45
51	Broadband 1.53Î¼m emission property in Er3+ doped germa-silicate glass for potential optical amplifier. Optics Communications, 2014, 315, 199-203.	2.1	46
52	1.53Î¼m emission properties in Er3+ doped Y2O3 and Nb2O5 modified germanate glasses for an optical amplifier. Journal of Luminescence, 2014, 154, 41-45.	3.1	20
53	Spectroscopic analysis and efficient diode-pumped 2.0Î¼m emission in Ho3+/Tm3+ codoped fluoride glass. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 115, 33-38.	3.9	23
54	Erbium doped heavy metal oxide glasses for mid-infrared laser materials. Journal of Non-Crystalline Solids, 2013, 377, 119-123.	3.1	39

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55	Intense mid-infrared emissions and energy transfer dynamics in Ho3+/Er3+ codoped fluoride glass. Journal of Luminescence, 2013, 138, 94-97.	3.1	41
56	Pr^3+-sensitized Er^3+-doped bismuthate glass for generating high inversion rates at 27ÂÂµm wavelength. Optics Letters, 2012, 37, 3387.	3.3	31
57	Origin of 2.7â€‰Î¼m luminescence and energy transfer process of Er3+: 4I11/2â†’4I13/2 transition in Er3+/Yb3+ doped germanate glasses. Journal of Applied Physics, 2012, 111, 033524.	2.5	26
58	Synthesis and infrared photoluminescence around 2.9Î¼m from Dy3+/Tm3+ codoped fluorophosphate glass. Materials Letters, 2012, 69, 72-75.	2.6	29
59	2.7Î¼m fluorescence radiative dynamics and energy transfer between Er3+ and Tm3+ ions in fluoride glass under 800nm and 980nm excitation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 87-95.	2.3	125
60	Broadband 2.84Î¼m luminescence properties and Juddâ€“Ofelt analysis in Dy3+ doped ZrF4â€“BaF2â€“LaF3â€“AlF3â€“YF3 glass. Journal of Luminescence, 2012, 132, 128-131.	3.1	36
61	Mid-infrared luminescence and energy transfer of Dy3+/Tm3+ doped fluorophosphate glass. Journal of Luminescence, 2012, 132, 1873-1878.	3.1	11
62	Structural Origin and Energy Transfer Processes of 1.8 Î¼m Emission in Tm³⁺ Doped Germanate Glasses. Journal of Physical Chemistry A, 2011, 115, 6488-6492.	2.5	19
63	Observation of 27Î¼m emission from diode-pumped Er^3+/Pr^3+-codoped fluorophosphate glass. Optics Letters, 2011, 36, 109.	3.3	91
64	Enhanced emission of 27â€‰Î¼m pumped by laser diode from Er^3+/Pr^3+-codoped germanate glasses. Optics Letters, 2011, 36, 1173.	3.3	109
65	Intense 27â€‰Î¼m and broadband 20â€‰Î¼m emission from diode-pumped Er^3+/Tm^3+/Ho^3+-doped fluorophosphate glass. Optics Letters, 2011, 36, 3218.	3.3	21
66	2 Î¼m spectroscopic investigation of Tm3+-doped tellurite glass fiber. Journal of Non-Crystalline Solids, 2011, 357, 2489-2493.	3.1	29
67	Enhanced 2.7 Î¼m Emission from Er3+/Tm3+/Pr3+ Triply Doped Fluoride Glass. Journal of the American Ceramic Society, 2011, 94, 2289-2291.	3.8	23
68	Spectroscopic properties and energy transfer process in Er3+ doped ZrF4-based fluoride glass for 2.7Î¼m laser materials. Optical Materials, 2011, 34, 308-312.	3.6	76
69	Investigation on broadband near-infrared emission and energy transfer in Er3+â€“Tm3+ codoped germanate glasses. Optical Materials, 2011, 33, 299-302.	3.6	41
70	Intense 2.0 <i>Î¼</i>m emission properties and energy transfer of Ho3+/Tm3+/Yb3+ doped fluorophosphate glasses. Journal of Applied Physics, 2011, 110, .	2.5	26
71	Comparative investigation on the 2.7â€‰Î¼m emission in Er3+/Ho3+ codoped fluorophosphate glass. Journal of Applied Physics, 2011, 110, 093106.	2.5	22
72	Enhanced 2.7 Î¼m emission and energy transfer mechanism of Nd3+/Er3+ co-doped sodium tellurite glasses. Journal of Applied Physics, 2011, 110, .	2.5	38

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73	Enhanced effect of Ce3+ ions on 2 <i>Î¼</i>m emission and energy transfer properties in Yb3+/Ho3+ doped fluorophosphate glasses. Journal of Applied Physics, 2011, 109, .	2.5	24
74	2.05 Âµm emission properties and energy transfer mechanism of germanate glass doped with Ho3+, Tm3+, and Er3+. Journal of Applied Physics, 2011, 109, .	2.5	38
75	2.0Î¼m Emission properties of transparent oxyfluoride glass ceramics doped with Yb3+â€"Ho3+ ions. Optical Materials, 2010, 32, 1451-1455.	3.6	39
76	2Î¼m Emission of Ho3+-doped fluorophosphate glass sensitized by Yb3+. Optical Materials, 2010, 32, 1508-1513.	3.6	64
77	1.8â€‚Î¼m emission of highly thulium doped fluorophosphate glasses. Journal of Applied Physics, 2010, 108, 083504.	2.5	55