Wang Pengfei

List of Publications by Year in descending order

65 papers	642 citations	567281 15 h-index	713466 21 g-index
65 all docs	65 docs citations	65 times ranked	510 citing authors

#	Article	IF	Citations
1	Effect of ZnO on the interfacial bonding between Na2Oâ€“B2O3â€“SiO2 vitrified bond and diamond. Solid State Sciences, 2009, 11, 1427-1432.	3.2	41
2	Toward Highâ€Quality Laserâ€Driven Lightings: Chromaticityâ€Tunable Phosphorâ€inâ€Glass Film with â€œPhosphor Patternâ€•Design. Laser and Photonics Reviews, 2022, 16, .	8.7	37
3	Third-order nonlinear optical properties of GeS_2-Sb_2S_3-CdS chalcogenide glasses. Optics Express, 2010, 18, 23275.	3.4	33
4	High Verdet constants and diamagnetic responses of GeS_2-In_2S_3-PbI_2 chalcogenide glasses for integrated optics applications. Optics Express, 2017, 25, 20410.	3.4	28
5	Effects of Cu on properties of vitrified bond and vitrified CBN composites. International Journal of Refractory Metals and Hard Materials, 2015, 50, 269-273.	3.8	25
6	Effect of CaO on the surface morphology and strength of water soaked Na2Oâ€“B2O3â€“Al2O3â€“SiO2 vitrified bond. Journal of Non-Crystalline Solids, 2008, 354, 3019-3024.	3.1	23
7	Investigations on the photoluminescence spectra and its defect-related nature for the ultraviolet transmitting fluoride-containing phosphate-based glasses. Journal of Non-Crystalline Solids, 2015, 425, 130-137.	3.1	23
8	Luminescence in the fluoride-containing phosphate-based glasses: A possible origin of their high resistance to nanosecond pulse laser-induced damage. Scientific Reports, 2015, 5, 8593.	3.3	22
9	Spectroscopic properties of new Yb3+-doped TeO2â€“ZnOâ€“Nb2O5 based tellurite glasses with high emission cross-section. Optical Materials, 2012, 34, 1549-1552.	3.6	20
10	Investigation of mid-IR luminescence properties and energy transfer in Dy3+-doped and Dy3+, Tm3+-codoped chalcohalide glasses. Optical Materials, 2013, 35, 1499-1503.	3.6	19
11	Yb3+-doped Fluorophosphate Glass with High Cross Section and Lifetime. Journal of Materials Science and Technology, 2010, 26, 921-924.	10.7	17
12	Fabrication of high thermal conductive Alâ€“cBN ceramic sinters by high temperature high pressure method. Solid State Sciences, 2011, 13, 1041-1046.	3.2	16
13	Chalcogenide glasses with embedded ZnS nanocrystals: Potential midâ€infrared laser host for divalent transition metal ions. Journal of the American Ceramic Society, 2018, 101, 666-673.	3.8	16
14	Enhanced 3.9â€‰â€‰Âµm emission from diode pumped Ho³⁺/Eu³⁺ codoped fluoroindate glasses. Optics Letters, 2021, 46, 2031.	3.3	16
15	Yb3+ doped fluorophosphate laser glasses with high gain coefficient and improved laser property. Solid State Sciences, 2012, 14, 550-553.	3.2	15
16	Spectroscopic and thermal properties of Yb3+ doped TeO2â€“Bi2O3â€“Nb2O5 based tellurite glasses. Journal of Luminescence, 2014, 153, 29-33.	3.1	15
17	Evolutionary mechanism of the defects in the fluoride-containing phosphate based glasses induced by gamma radiation. Scientific Reports, 2016, 6, 18926.	3.3	15
18	Effects of alkaline-earth fluorides and OHâˆ’ on spectroscopic properties of Yb3+ doped TeO2â€“ZnOâ€“B2O3 based glasses. Journal of Luminescence, 2013, 140, 26-29.	3.1	14

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19	Effect of iodine (I 2) on structural, thermal and optical properties of Ge-Sb-S chalcohalide host glasses and ones doped with Dy. Journal of Non-Crystalline Solids, 2017, 464, 81-88.	3.1	14
20	Theoretical Modeling of 4.3 Î¼m Mid-Infrared Lasing in Dy³⁺-Doped Chalcogenide Fiber Lasers. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	13
21	Near- and mid-infrared emissions of Dy3+ doped and Dy3+/Tm3+co-doped lead cesium iodide modified chalcohalide glasses. Journal of Luminescence, 2014, 148, 10-17.	3.1	12
22	Development of lowâ€loss leadâ€germanate glass for midâ€infrared fiber optics: II. preform extrusion and fiber fabrication. Journal of the American Ceramic Society, 2021, 104, 833-850.	3.8	12
23	Third-order optical nonlinearity properties of CdCl2-modifed Geâ€"Sbâ€"S chalcogenide glasses. Journal of Non-Crystalline Solids, 2020, 528, 119757.	3.1	11
24	Mid-infrared emissions of Pr 3+ -doped GeS 2 â€"Ga 2 S 3 â€"CdI 2 chalcohalide glasses. Materials Research Bulletin, 2014, 60, 391-396.	5.2	10
25	Significant improvement of gamma radiation resistance in CeO_2 doped phosphate glass by co-doping with Sb_2O_3. Optical Materials Express, 2017, 7, 1113.	3.0	10
26	Investigations on the photoluminescence of the iron and cobalt doped fluoride-containing phosphate-based glasses and its defects-related nature. Journal of Alloys and Compounds, 2016, 685, 153-158.	5.5	9
27	Development of lowâ€loss leadâ€germanate glass for midâ€infrared fiber optics: I. glass preparation optimization. Journal of the American Ceramic Society, 2021, 104, 860-876.	3.8	9
28	2.86 Î¼m emission and fluorescence enhancement through controlled precipitation of ZnTe nanocrystals in DyF3 doped multicomponent tellurite oxyfluoride glass. Journal of Non-Crystalline Solids, 2021, 564, 120842.	3.1	9
29	Research on the direct doping effect of silicon on cubic boron nitride ceramics by UVâ€"VIS diffuse reflectance. Materials Chemistry and Physics, 2010, 123, 356-359.	4.0	8
30	Magnetoâ€optical effects of Geâ€Gaâ€Sb(In)â€S chalcogenide glasses with diamagnetic responses. Journal of the American Ceramic Society, 2017, 100, 2914-2920.	3.8	8
31	Demonstration of 128-Channel Optical Phased Array With Large Scanning Range. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	8
32	Effects of doping B_2O_3 on the defects-state in SiO_2-containing phosphate based glasses. Optical Materials Express, 2017, 7, 2697.	3.0	7
33	Spectroscopic properties of ErF3 doped telluriteâ€"gallium oxyfluoride glass for â^¼3â€‰<i>Î¼</i>m laser materials. Journal of Applied Physics, 2021, 129, .	2.5	7
34	Fabrication and characterization of Yb^3+-doped gain-guided index-antiguided fiber with D-shaped inner cladding. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1498.	2.1	6
35	Spectroscopic properties of ZrF₄-based fluorophosphate laser glasses with large stimulated emission cross-section and high thermal stability. Laser Physics, 2013, 23, 045805.	1.2	6
36	Spectroscopic properties of Yb3+ doped TeO2â€"TiO2â€"Bi2O3 laser glasses. Results in Physics, 2020, 16, 102852.	4.1	6

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37	Enhancement of UV laserâ€induced damage resistance of the fluorideâ€containing phosphate glasses by regulating the intrinsic defects. Journal of the American Ceramic Society, 2022, 105, 2546-2555.	3.8	6
38	Crystallization and absorption properties of novel photo-thermal refractive glasses with the addition of B2O3. Journal of Non-Crystalline Solids, 2013, 368, 55-62.	3.1	5
39	Monolithic integration of InGaAs/InP multiple quantum wells on SOI substrates for photonic devices. Journal of Applied Physics, 2018, 123, .	2.5	5
40	Influence of ZnO and Heat Treatment Process on the Physical and Optical Properties of MgO-Al₂O₃-SiO₂Glass-Ceramics. ECS Journal of Solid State Science and Technology, 2018, 7, N42-N45.	1.8	5
41	Laser-induced fluorescence and its effect on the damage resistance of fluoride-containing phosphate-based glasses. Ceramics International, 2021, 47, 13164-13172.	4.8	5
42	Effect of melting atmospheres on the optical property of radiation-hard fluorophosphate glass. Ceramics International, 2021, 47, 22468-22477.	4.8	5
43	Formation of flower-like MgO crystal and its effect on the photoluminescence of Mg-cBN ceramics. Journal of Alloys and Compounds, 2010, 492, 532-535.	5.5	4
44	Preparation of the oxyfluoride glass with high 3ï‰ laser induced damage threshold. Optics and Laser Technology, 2014, 56, 88-91.	4.6	4
45	Infrared emission properties of Dy3+-doped and Dy3+,Tm3+-codoped chalcohalide glasses. Journal of Non-Crystalline Solids, 2014, 383, 205-208.	3.1	4
46	Effects of Gamma Radiation and Heat Treatment on the Photoluminescence of the Fluoride-Containing Phosphate-Based Glasses. ECS Journal of Solid State Science and Technology, 2016, 5, R192-R197.	1.8	4
47	Annealing effects on the morphology and luminescence of cubic boron nitride based ceramics. Solid State Sciences, 2009, 11, 2162-2166.	3.2	3
48	Spectroscopic properties of Yb ³⁺ -doped TeO ₂ â€"BaOâ€"BaF ₂ â€"Nb ₂ O ₅ -based oxyfluoride tellurite glasses. Chinese Physics B, 2014, 23, 097801.	1.4	3
49	Analysis of Partial Crystallization in Yb3+Doped Aluminophosphosilicate Fiber Preforms Prepared with Organic Chelate Precursor Doping Technique. ECS Journal of Solid State Science and Technology, 2017, 6, P138-P143.	1.8	3
50	Natural healing behavior of gamma radiation induced defects in multicomponent phosphate glasses used for high energy UV lasers. Optical Materials Express, 2017, 7, 3284.	3.0	3
51	Crystallization and Dielectric Properties of Transparent Na₂O-Nb₂O₅-SiO₂Based Glass-Ceramics. ECS Journal of Solid State Science and Technology, 2018, 7, N81-N85.	1.8	3
52	Effect of Ba(PO₃)₂ addition on the optical properties of Tm³⁺-doped fluorophosphate glasses. Optical Materials Express, 2019, 9, 1233.	3.0	3
53	Influences of Alkaline-Earth Metal Oxides on the Properties of Vitrified Bond. Key Engineering Materials, 0, 368-372, 1405-1407.	0.4	2
54	Effects of doping SiO_2 on the defectâ€™s change in B_2O_3-containing phosphate based laser glasses used for high energy UV lasers. Optical Materials Express, 2017, 7, 4111.	3.0	2

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55	Investigation of InGaAs/GaAs Quantum Well Lasers with Slightly Doped Tunnel Junction. Semiconductors, 2018, 52, 2017-2021.	0.5	2
56	Tunable broadband emission from red to blue by gamma radiation in multicomponent phosphate glasses. Journal of the American Ceramic Society, 2019, 102, 48-52.	3.8	2
57	Photoluminescence of Yb3+/Ce3+ co-doped aluminosilicate glasses under ultraviolet irradiation. Journal of Non-Crystalline Solids, 2020, 528, 119540.	3.1	2
58	Multicore Photonic Complex-Valued Neural Network with Transformation Layer. Photonics, 2022, 9, 384.	2.0	2
59	The damage property of oxyfluoride glasses irradiated by a 351 nm high fluence laser. Laser Physics, 2013, 23, 076005.	1.2	1
60	The Nature of the Defects in Phosphate-Based Glasses Induced by Gamma Radiation. , 0, , .		1
61	Hybrid Integration of a Tunneling Diode and a 1310 nm DFB Semiconductor Laser. , 2018, , .		1
62	Development of low-loss lead-germanate glass for mid-infrared fiber optics. , 2020, , .		1
63	Enhancement of the radiation resistance of cerium-containing fluorophosphate glasses through codoping with Sb2O3 and Bi2O3. Ceramics International, 2022, 48, 20041-20052.	4.8	1
64	Fundamental-frequency-absorbed oxyfluoride glass in a high-power laser. Applied Optics, 2016, 55, 2649.	2.1	0
65	Quantum Well Laser-Based Optical Bistable Switching Device. , 2018, , .		0