

Atul Khanna

List of Publications by Year in descending order

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89
papers

1,755
citations

279487

23
h-index

288905

40
g-index

89
all docs

89
docs citations

89
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Eu ³⁺ Activated Molybdate and Tungstate Based Red Phosphors with Charge Transfer Band in Blue Region. ECS Journal of Solid State Science and Technology, 2013, 2, R3153-R3167.	0.9	120
2	CuO-doped SnO ₂ thin films as hydrogen sulfide gas sensor. Applied Physics Letters, 2003, 82, 4388-4390.	1.5	107
3	Structure-property correlations in TiO ₂ -Bi ₂ O ₃ -B ₂ O ₃ -TeO ₂ glasses. Journal of Non-Crystalline Solids, 2017, 470, 168-177.	1.5	106
4	Structural investigation of bismuth borate glasses and crystalline phases. Journal of Non-Crystalline Solids, 2009, 355, 45-53.	1.5	102
5	Gamma-ray attenuation coefficients in some heavy metal oxide borate glasses at 662 keV. Nuclear Instruments & Methods in Physics Research B, 1996, 114, 217-220.	0.6	88
6	Structural, optical, dielectric and thermal properties of molybdenum tellurite and borotellurite glasses. Journal of Non-Crystalline Solids, 2016, 444, 1-10.	1.5	75
7	Preparation and characterization of lead and zinc tellurite glasses. Journal of Non-Crystalline Solids, 2010, 356, 864-872.	1.5	73
8	Structural, optical and mechanical properties of amorphous and crystalline alumina thin films. Thin Solid Films, 2014, 568, 19-24.	0.8	70
9	Optical, thermal, and structural properties of Nb ₂ O ₅ -TeO ₂ and WO ₃ -TeO ₂ glasses. Phase Transitions, 2013, 86, 598-619.	0.6	61
10	Structural characterization of borotellurite and alumino-borotellurite glasses. Journal of Non-Crystalline Solids, 2014, 404, 116-123.	1.5	61
11	Structural, thermal, optical and photo-luminescent properties of barium tellurite glasses doped with rare-earth ions. Journal of Non-Crystalline Solids, 2017, 476, 67-74.	1.5	58
12	Structure-property correlations in lead borate and borosilicate glasses doped with aluminum oxide. Journal of Non-Crystalline Solids, 2009, 355, 2323-2332.	1.5	51
13	Structural and optical characterization of Eu and Dy doped CaWO ₄ nanoparticles for white light emission. Journal of Alloys and Compounds, 2020, 834, 154804.	2.8	40
14	B O and Te O speciation in bismuth tellurite and bismuth borotellurite glasses by FTIR, 11 B MAS-NMR and Raman spectroscopy. Journal of Non-Crystalline Solids, 2017, 470, 19-26.	1.5	39
15	Cu-SnO ₂ element as hydrogen sulfide gas sensor prepared by a sequential electron beam evaporation technique. Journal Physics D: Applied Physics, 2003, 36, 2377-2381.	1.3	31
16	Glass and anti-glass phase co-existence and structural transitions in bismuth tellurite and bismuth niobium tellurite systems. Journal of Non-Crystalline Solids, 2018, 481, 594-603.	1.5	31
17	Effects of Doping Trivalent Ions in Bismuth Borate Glasses. Journal of the American Ceramic Society, 2009, 92, 1036-1041.	1.9	29
18	Structural, optical and thermal properties of glass and anti-glass phases in strontium tellurite and borotellurite systems doped with europium. Materials Research Bulletin, 2018, 106, 288-295.	2.7	29

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19	Effects of Al ³⁺ , W ⁶⁺ , Nb ⁵⁺ and Pb ²⁺ on the structure and properties of borotellurite glasses. Journal of Non-Crystalline Solids, 2015, 429, 153-163.	1.5	28
20	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation. Applied Surface Science, 2019, 463, 45-51.	3.1	26
21	Structural, thermal and light emission properties of Eu, Sm, Dy, Er and Mn doped CaAl ₂ O ₄ and SrAl ₂ O ₄ . Ceramics International, 2021, 47, 14655-14664.	2.3	25
22	Sputter deposited crystalline V ₂ O ₅ , WO ₃ and WO ₃ /V ₂ O ₅ multi-layers for optical and electrochemical applications. Applied Surface Science, 2021, 536, 147804.	3.1	24
23	CuO-doped WO ₃ thin film H ₂ S sensors. Sensors and Actuators B: Chemical, 2021, 343, 130153.	4.0	24
24	Structural, optical and electrical properties of crystalline V ₂ O ₅ films deposited by thermal evaporation and effects of temperature on UV-vis and Raman spectra. Optik, 2017, 144, 271-280.	1.4	23
25	Synthesis and structural characterization of alumina nanoparticles. Phase Transitions, 2020, 93, 596-605.	0.6	22
26	Structure-property correlations in lead silicate glasses and crystalline phases. Phase Transitions, 2013, 86, 759-777.	0.6	21
27	Structural, thermal and photoluminescent properties of Eu ₂ O ₃ -Li ₂ O-TeO ₂ glasses. Journal of Luminescence, 2018, 204, 319-326.	1.5	21
28	Short-range structure and thermal properties of alumino-tellurite glasses. Journal of Non-Crystalline Solids, 2017, 470, 14-18.	1.5	18
29	Structural analysis of WO ₃ -TeO ₂ glasses by neutron, high energy X-ray diffraction, reverse Monte Carlo simulations and XANES. Journal of Non-Crystalline Solids, 2018, 495, 27-34.	1.5	18
30	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu ³⁺ /Er ³⁺ doped tellurite glasses and anti-glasses. Journal of Non-Crystalline Solids, 2019, 513, 24-35.	1.5	17
31	Effects of annealing temperature on structural and photoluminescence properties of Eu, Dy and Sm doped CaWO ₄ nanoparticles. Ceramics International, 2020, 46, 27262-27274.	2.3	17
32	Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi ₂ Te ₄ O ₁₁ anti-glass by high energy X-ray diffraction. RSC Advances, 2020, 10, 13237-13251.	1.7	17
33	Structure of lead tellurite glasses and its relationship with stress-optic properties. Materials Research Bulletin, 2019, 110, 239-246.	2.7	16
34	Near-UV and blue wavelength excitable Mg _{0.6} Ca _{2.16} Mo _{0.2} W _{0.8} O ₆ : Eu _{0.123} ⁺ /Na _{0.12} ⁺ high efficiency red phosphors. Journal of Solid State Chemistry, 2015, 225, 120-134.	1.4	15
35	Photoluminescence and thermal properties of trivalent ion-doped lanthanum tellurite anti-glass and glass composite samples. Journal of Luminescence, 2020, 225, 117375.	1.5	15
36	Crystallization of bismuth borate glasses. Journal of Physics Condensed Matter, 2009, 21, 035112.	0.7	14

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37	Thermal and light emission properties of rare earth (Eu ³⁺ , Dy ³⁺ and Er ³⁺), alkali (Li ⁺ , Na ⁺ and K ⁺) and Al ³⁺ -doped barium tellurite and boro-tellurite glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17266-17281.	1.1	14
38	Effects of annealing on density, glass transition temperature and structure of tellurite, silicate and borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 443-452.	1.5	13
39	Optical properties of some heavy metal oxide borate glasses. <i>Journal of Materials Science Letters</i> , 1996, 15, 815-816.	0.5	11
40	Tunable color temperature solid state white light source using flux grown phosphor crystals of Eu ³⁺ , Dy ³⁺ and Tb ³⁺ activated calcium sodium molybdenum oxide. <i>Optical Materials</i> , 2014, 37, 646-655.	1.7	11
41	Structural and electrical characterization of semiconducting xCuO-(100-x)TeO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 534, 119884.	1.5	10
42	Structural, electrical and luminescence properties of M ₂ V ₂ O ₇ (M = Mg, Ca, Sr, Ba, Zn). <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21813-21823.	1.1	10
43	Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 108-121.	0.5	10
44	Structure-property correlations in molybdenum trioxide thin films and nanoparticles. <i>Materials Research Express</i> , 2019, 6, 086409.	0.8	9
45	Structural, thermal and optical characterization of co-existing glass and anti-glass phases of xLa ₂ O ₃ -(100-x)TeO ₂ and 2TiO ₂ -xLa ₂ O ₃ -(98-x)TeO ₂ systems. <i>Journal of Non-Crystalline Solids</i> , 2020, 540, 120117.	1.5	9
46	Short-range structure of barium tellurite glasses and its correlation with stress-optic response. <i>Materials Research Express</i> , 2018, 5, 065203.	0.8	8
47	Synthesis and characterization of vanadium and iron tellurite glasses for applications as thermal sensors. <i>Solid State Sciences</i> , 2021, 114, 106564.	1.5	8
48	Interaction of reducing gases with tin oxide films prepared by reactive evaporation techniques. <i>Vacuum</i> , 2012, 86, 1380-1386.	1.6	6
49	Effects of doping of trivalent ions on glass and anti-glass phases of Bi ₂ O ₃ -Nb ₂ O ₅ -TeO ₂ system. <i>Journal of Non-Crystalline Solids</i> , 2019, 522, 119565.	1.5	6
50	Structural and optical characterization of Er-doped CaMoO ₄ down-converting phosphors. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 926-938.	0.5	6
51	Structural, Optical and Gas Sensing Properties of Tungsten Trioxide Thin Films and Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 283-293.	0.4	6
52	Thermal characteristics, Raman spectra, optical and structural properties of TiO ₂ -Bi ₂ O ₃ -B ₂ O ₃ -TeO ₂ glasses. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	5
53	Rare earth doped CaWO ₄ and CaMoO ₄ thin films for white light emission. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, .	0.6	5
54	Self-flux sodium based charge compensation in crystals of trivalent europium activated alkaline earth metal tungstate phosphors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2742-2750.	0.8	4

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55	Optical properties of borotellurite glasses containing metal oxides. AIP Conference Proceedings, 2015, , .	0.3	4
56	Structural transitions in alumina nanoparticles by heat treatment. AIP Conference Proceedings, 2016, , .	0.3	4
57	Structural and thermal properties of vanadium tellurite glasses. AIP Conference Proceedings, 2018, , .	0.3	4
58	Structure of $x\text{MoO}_3-(100-x)\text{TeO}_2$ glasses by neutron diffraction and Reverse Monte Carlo modeling. Materials Research Express, 2019, 6, 075211.	0.8	4
59	X-ray photoelectron spectra and electronic structure of Mo doped V_2O_5 . Thin Solid Films, 2020, 713, 138360.	0.8	4
60	<i>In situ</i> high pressure neutron diffraction and Raman spectroscopy of $20\text{BaO}\cdot 80\text{TeO}_2$ glass. RSC Advances, 2020, 10, 42502-42511.	1.7	4
61	Structure of copper tellurite and borotellurite glasses by neutron diffraction, Raman, ^{11}B MAS-NMR and FTIR spectroscopy. Journal of Commonwealth Law and Legal Education, 2020, 61, 27-39.	0.2	4
62	Blue afterglow in Eu^{2+} doped CaAl_2O_4 by electron irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 276, 115569.	1.7	4
63	Metallic to semiconducting transition and hydrophobicity properties of indium films. Vacuum, 2022, 203, 111281.	1.6	4
64	Devitrification properties of lead borate glasses. Phase Transitions, 2013, 86, 541-550.	0.6	3
65	Study of anti-glass phases in heavy metal oxide tellurite systems. AIP Conference Proceedings, 2019, , .	0.3	3
66	Growth and characterization of hydrophobic anti-reflection CaF_2 films. Journal of Materials Science: Materials in Electronics, 2020, 31, 14241-14248.	1.1	3
67	Neutron diffraction investigation of strontium tellurite glass, anti-glass and crystalline phases. Phase Transitions, 2020, 93, 1016-1029.	0.6	3
68	Structure of lithium tellurite and vanadium lithium tellurite glasses by high-energy X-ray and neutron diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 275-286.	0.5	3
69	Short-range structure and thermal properties of lead tellurite glasses. AIP Conference Proceedings, 2017, , .	0.3	2
70	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions. AIP Conference Proceedings, 2019, , .	0.3	2
71	Effects of thickness on the wettability and electrical properties of Sn thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 032205.	0.6	2
72	Optical and thermal properties of luminescent Er^{3+} -doped lithium tellurite glasses. Phase Transitions, 2021, 94, 856-870.	0.6	2

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73	Temperature effect on the glass forming ability of strontium tellurite and lead tellurite melts. Journal of Alloys and Compounds, 2021, 881, 160595.	2.8	2
74	Growth and characterization of Cu ₂ O and CuO thin films. Journal of Materials Science: Materials in Electronics, 2022, 33, 16154-16166.	1.1	2
75	Low-frequency noise in monodisperse platinum nanostructures near the percolation threshold. Physics of the Solid State, 2006, 48, 2194-2198.	0.2	1
76	Structural transformations in reactively sputtered alumina films. AIP Conference Proceedings, 2014, , .	0.3	1
77	Short-range structure and thermal properties of barium tellurite glasses. AIP Conference Proceedings, 2017, , .	0.3	1
78	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation. Materials Research Express, 2019, 6, 116451.	0.8	1
79	Structure of lead silicate glasses and its correlation with photoelastic properties. Indian Journal of Physics, 2020, 95, 2187.	0.9	1
80	Structural Characterization of Oxyhalide Materials for Solid-State Batteries. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000682.	0.8	1
81	Vanadium Oxide Thin Films for Optical and Gas Sensing Applications. Materials Horizons, 2020, , 703-721.	0.3	1
82	Investigation of structural and optical characteristics of CaWO ₄ and BaWO ₄ nanoparticles. AIP Conference Proceedings, 2020, , .	0.3	1
83	Neutron diffraction investigation of copper tellurite glasses with high real-space resolution. Journal of Applied Crystallography, 2021, 54, .	1.9	1
84	Devitrification Properties Of Bismuth Borate Glasses Doped With Trivalent Ions. , 2010, , .		0
85	Effects of oblique angle deposition on surface wettability of Sn metal thin films. AIP Conference Proceedings, 2020, , .	0.3	0
86	Structural and thermal properties of magnesium tellurite glasses. AIP Conference Proceedings, 2020, , .	0.3	0
87	Thermal characteristics and short-range structure in TiO ₂ -TeO ₂ and Bi ₂ O ₃ -TeO ₂ glasses: A comparative study. AIP Conference Proceedings, 2020, , .	0.3	0
88	Evidence of strong correlation between local structures in glass and crystalline phase of lanthanum tellurite system. AIP Conference Proceedings, 2020, , .	0.3	0
89	Thermal, structural and photoluminescence properties of Eu ³⁺ /Er ³⁺ doped Li ₂ O-TeO ₂ glasses. AIP Conference Proceedings, 2020, , .	0.3	0