

# Atul Khanna

## List of Publications by Year in descending order

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89  
papers

1,755  
citations

279701

23  
h-index

289141

40  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue afterglow in Eu <sup>2+</sup> doped CaAl <sub>2</sub> O <sub>4</sub> by electron irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 276, 115569.	1.7	4
2	Growth and characterization of Cu <sub>2</sub> O and CuO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 16154-16166.	1.1	2
3	Metallic to semiconducting transition and hydrophobicity properties of indium films. <i>Vacuum</i> , 2022, 203, 111281.	1.6	4
4	Sputter deposited crystalline V <sub>2</sub> O <sub>5</sub> , WO <sub>3</sub> and WO <sub>3</sub> /V <sub>2</sub> O <sub>5</sub> multi-layers for optical and electrochemical applications. <i>Applied Surface Science</i> , 2021, 536, 147804.	3.1	24
5	Rare earth doped CaWO <sub>4</sub> and CaMoO <sub>4</sub> thin films for white light emission. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, .	0.6	5
6	Structural Characterization of Oxyhalide Materials for Solid-State Batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000682.	0.8	1
7	Structure of lithium tellurite and vanadium lithium tellurite glasses by high-energy X-ray and neutron diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 275-286.	0.5	3
8	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
9	Effects of thickness on the wettability and electrical properties of Sn thin films. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, 032205.	0.6	2
10	Structural, thermal and light emission properties of Eu, Sm, Dy, Er and Mn doped CaAl <sub>2</sub> O <sub>4</sub> and SrAl <sub>2</sub> O <sub>4</sub> . <i>Ceramics International</i> , 2021, 47, 14655-14664.	2.3	25
11	Thermal and light emission properties of rare earth (Eu <sup>3+</sup> , Dy <sup>3+</sup> and Er <sup>3+</sup> ), alkali (Li <sup>+</sup> , Na <sup>+</sup> and K <sup>+</sup> ) and Al <sup>3+</sup> -doped barium tellurite and boro-tellurite glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17266-17281.	1.1	14
12	Structural, electrical and luminescence properties of M <sub>2</sub> V <sub>2</sub> O <sub>7</sub> (M = Mg, Ca, Sr, Ba, Zn). <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21813-21823.	1.1	10
13	Optical and thermal properties of luminescent Er <sup>3+</sup> -doped lithium tellurite glasses. <i>Phase Transitions</i> , 2021, 94, 856-870.	0.6	2
14	CuO-doped WO <sub>3</sub> thin film H <sub>2</sub> S sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130153.	4.0	24
15	Temperature effect on the glass forming ability of strontium tellurite and lead tellurite melts. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160595.	2.8	2
16	Neutron diffraction investigation of copper tellurite glasses with high real-space resolution. <i>Journal of Applied Crystallography</i> , 2021, 54, .	1.9	1
17	X-ray photoelectron spectra and electronic structure of Mo doped V <sub>2</sub> O <sub>5</sub> . <i>Thin Solid Films</i> , 2020, 713, 138360.	0.8	4
18	Effects of oblique angle deposition on surface wettability of Sn metal thin films. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0

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19	Structural and thermal properties of magnesium tellurite glasses. AIP Conference Proceedings, 2020, , .	0.3	0
20	Growth and characterization of hydrophobic anti-reflection CaF <sub>2</sub> films. Journal of Materials Science: Materials in Electronics, 2020, 31, 14241-14248.	1.1	3
21	Effects of annealing temperature on structural and photoluminescence properties of Eu, Dy and Sm doped CaWO <sub>4</sub> nanoparticles. Ceramics International, 2020, 46, 27262-27274.	2.3	17
22	Neutron diffraction investigation of strontium tellurite glass, anti-glass and crystalline phases. Phase Transitions, 2020, 93, 1016-1029.	0.6	3
23	Structure of lead silicate glasses and its correlation with photoelastic properties. Indian Journal of Physics, 2020, 95, 2187.	0.9	1
24	Synthesis and structural characterization of alumina nanoparticles. Phase Transitions, 2020, 93, 596-605.	0.6	22
25	Structural, thermal and optical characterization of co-existing glass and anti-glass phases of xLa <sub>2</sub> O <sub>3</sub> -(100-x)TeO <sub>2</sub> and 2TiO <sub>2</sub> -xLa <sub>2</sub> O <sub>3</sub> -(98-x)TeO <sub>2</sub> systems. Journal of Non-Crystalline Solids, 2020, 540, 120117.	1.5	9
26	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
27	Structural and electrical characterization of semiconducting xCuO-(100-x)TeO <sub>2</sub> glasses. Journal of Non-Crystalline Solids, 2020, 534, 119884.	1.5	10
28	Structural and optical characterization of Eu and Dy doped CaWO <sub>4</sub> nanoparticles for white light emission. Journal of Alloys and Compounds, 2020, 834, 154804.	2.8	40
29	Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi <sub>2</sub> Te <sub>4</sub> O <sub>11</sub> anti-glass by high energy X-ray diffraction. RSC Advances, 2020, 10, 13237-13251.	1.7	17
30	<i>In situ</i> high pressure neutron diffraction and Raman spectroscopy of 20BaO-80TeO <sub>2</sub> glass. RSC Advances, 2020, 10, 42502-42511.	1.7	4
31	Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 108-121.	0.5	10
32	Structural and optical characterization of Er-doped CaMoO <sub>4</sub> down-converting phosphors. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 926-938.	0.5	6
33	Structure of copper tellurite and borotellurite glasses by neutron diffraction, Raman, 11B MAS-NMR and FTIR spectroscopy. Journal of Commonwealth Law and Legal Education, 2020, 61, 27-39.	0.2	4
34	Thermal characteristics and short-range structure in TiO <sub>2</sub> -TeO <sub>2</sub> and Bi <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glasses: A comparative study. AIP Conference Proceedings, 2020, , .	0.3	0
35	Vanadium Oxide Thin Films for Optical and Gas Sensing Applications. Materials Horizons, 2020, , 703-721.	0.3	1
36	Evidence of strong correlation between local structures in glass and crystalline phase of lanthanum tellurite system. AIP Conference Proceedings, 2020, , .	0.3	0

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37	Investigation of structural and optical characteristics of CaWO <sub>4</sub> and BaWO <sub>4</sub> nanoparticles. AIP Conference Proceedings, 2020, , .	0.3	1
38	Thermal, structural and photoluminescence properties of Eu <sup>3+</sup> /Er <sup>3+</sup> doped Li <sub>2</sub> O-TeO <sub>2</sub> glasses. AIP Conference Proceedings, 2020, , .	0.3	0
39	Study of anti-glass phases in heavy metal oxide tellurite systems. AIP Conference Proceedings, 2019, , .	0.3	3
40	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions. AIP Conference Proceedings, 2019, , .	0.3	2
41	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
42	Effects of doping of trivalent ions on glass and anti-glass phases of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> system. Journal of Non-Crystalline Solids, 2019, 522, 119565.	1.5	6
43	Structure of xMoO <sub>3</sub> -(100-x)TeO <sub>2</sub> glasses by neutron diffraction and Reverse Monte Carlo modeling. Materials Research Express, 2019, 6, 075211.	0.8	4
44	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu <sup>3+</sup> /Er <sup>3+</sup> doped tellurite glasses and anti-glasses. Journal of Non-Crystalline Solids, 2019, 513, 24-35.	1.5	17
45	Structure-property correlations in molybdenum trioxide thin films and nanoparticles. Materials Research Express, 2019, 6, 086409.	0.8	9
46	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
47	Structure of lead tellurite glasses and its relationship with stress-optic properties. Materials Research Bulletin, 2019, 110, 239-246.	2.7	16
48	Structural and thermal properties of vanadium tellurite glasses. AIP Conference Proceedings, 2018, , .	0.3	4
49	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
50	Effects of annealing on density, glass transition temperature and structure of tellurite, silicate and borate glasses. Journal of Non-Crystalline Solids, 2018, 500, 443-452.	1.5	13
51	Short-range structure of barium tellurite glasses and its correlation with stress-optic response. Materials Research Express, 2018, 5, 065203.	0.8	8
52	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
53	Structural analysis of WO <sub>3</sub> -TeO <sub>2</sub> 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
54	Structural, thermal and photoluminescent properties of Eu <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-TeO <sub>2</sub> glasses. Journal of Luminescence, 2018, 204, 319-326.	1.5	21

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55	B O and Te O speciation in bismuth tellurite and bismuth borotellurite glasses by FTIR, <sup>11</sup> B MAS-NMR and Raman spectroscopy. Journal of Non-Crystalline Solids, 2017, 470, 19-26.	1.5	39
56	Short-range structure and thermal properties of alumino-tellurite glasses. Journal of Non-Crystalline Solids, 2017, 470, 14-18.	1.5	18
57	Structure-property correlations in TiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glasses. Journal of Non-Crystalline Solids, 2017, 470, 168-177.	1.5	106
58	Short-range structure and thermal properties of barium tellurite glasses. AIP Conference Proceedings, 2017, , .	0.3	1
59	Thermal characteristics, Raman spectra, optical and structural properties of TiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glasses. AIP Conference Proceedings, 2017, , .	0.3	5
60	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
61	Short-range structure and thermal properties of lead tellurite glasses. AIP Conference Proceedings, 2017, , .	0.3	2
62	Structural, optical and electrical properties of crystalline V <sub>2</sub> O <sub>5</sub> films deposited by thermal evaporation and effects of temperature on UV-vis and Raman spectra. Optik, 2017, 144, 271-280.	1.4	23
63	Structural transitions in alumina nanoparticles by heat treatment. AIP Conference Proceedings, 2016, , .	0.3	4
64	Structural, optical, dielectric and thermal properties of molybdenum tellurite and borotellurite glasses. Journal of Non-Crystalline Solids, 2016, 444, 1-10.	1.5	75
65	Structural, Optical and Gas Sensing Properties of Tungsten Trioxide Thin Films and Nanoparticles. Nanoscience and Nanotechnology Letters, 2016, 8, 283-293.	0.4	6
66	Optical properties of borotellurite glasses containing metal oxides. AIP Conference Proceedings, 2015, , .	0.3	4
67	Near-UV and blue wavelength excitable Mg <sub>0.6</sub> Ca <sub>2.16</sub> Mo <sub>0.2</sub> W <sub>0.8</sub> O <sub>6</sub> : Eu <sup>0.123+</sup> /Na <sup>0.12+</sup> high efficiency red phosphors. Journal of Solid State Chemistry, 2015, 225, 120-134.	1.4	15
68	Effects of Al <sup>3+</sup> , W <sup>6+</sup> , Nb <sup>5+</sup> and Pb <sup>2+</sup> on the structure and properties of borotellurite glasses. Journal of Non-Crystalline Solids, 2015, 429, 153-163.	1.5	28
69	Structural transformations in reactively sputtered alumina films. AIP Conference Proceedings, 2014, , .	0.3	1
70	Structural characterization of borotellurite and alumino-borotellurite glasses. Journal of Non-Crystalline Solids, 2014, 404, 116-123.	1.5	61
71	Tunable color temperature solid state white light source using flux grown phosphor crystals of Eu <sup>3+</sup> , Dy <sup>3+</sup> and Tb <sup>3+</sup> activated calcium sodium molybdenum oxide. Optical Materials, 2014, 37, 646-655.	1.7	11
72	Structural, optical and mechanical properties of amorphous and crystalline alumina thin films. Thin Solid Films, 2014, 568, 19-24.	0.8	70

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73	Structure-property correlations in lead silicate glasses and crystalline phases. Phase Transitions, 2013, 86, 759-777.	0.6	21
74	Devitrification properties of lead borate glasses. Phase Transitions, 2013, 86, 541-550.	0.6	3
75	$\text{Eu}^{3+}$ 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
76	Optical, thermal, and structural properties of $\text{Nb}_2\text{O}_5$ - $\text{TeO}_2$ and $\text{WO}_3$ - $\text{TeO}_2$ glasses. Phase Transitions, 2013, 86, 598-619.	0.6	61
77	Self-flux sodium based charge compensation in crystals of trivalent europium activated alkaline earth metal tungstate phosphors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2742-2750.	0.8	4
78	Interaction of reducing gases with tin oxide films prepared by reactive evaporation techniques. Vacuum, 2012, 86, 1380-1386.	1.6	6
79	Devitrification Properties Of Bismuth Borate Glasses Doped With Trivalent Ions. , 2010, ,		0
80	Preparation and characterization of lead and zinc tellurite glasses. Journal of Non-Crystalline Solids, 2010, 356, 864-872.	1.5	73
81	Effects of Doping Trivalent Ions in Bismuth Borate Glasses. Journal of the American Ceramic Society, 2009, 92, 1036-1041.	1.9	29
82	Crystallization of bismuth borate glasses. Journal of Physics Condensed Matter, 2009, 21, 035112.	0.7	14
83	Structural investigation of bismuth borate glasses and crystalline phases. Journal of Non-Crystalline Solids, 2009, 355, 45-53.	1.5	102
84	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
85	Low-frequency noise in monodisperse platinum nanostructures near the percolation threshold. Physics of the Solid State, 2006, 48, 2194-2198.	0.2	1
86	CuO-doped $\text{SnO}_2$ thin films as hydrogen sulfide gas sensor. Applied Physics Letters, 2003, 82, 4388-4390.	1.5	107
87	CuO-SnO <sub>2</sub> 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
88	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
89	Optical properties of some heavy metal oxide borate glasses. Journal of Materials Science Letters, 1996, 15, 815-816.	0.5	11