Rajesh Punia

List of Publications by Year in descending order

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172457 233421 2,458 104 29 45 citations h-index g-index papers 104 104 104 1535 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Bismuth modified physical, structural and optical properties of mid-IR transparent zinc boro-tellurite glasses. Journal of Alloys and Compounds, 2014, 587, 66-73.	5.5	145
2	Nanostructured Polyaniline/Graphene/Fe ₂ O ₃ Composites Hydrogel as a High-Performance Flexible Supercapacitor Electrode Material. ACS Applied Energy Materials, 2020, 3, 6434-6446.	5.1	113
3	Structural and optical properties of barium titanate modified bismuth borate glasses. Solid State Sciences, 2014, 37, 64-71.	3.2	110
4	Physical, structural and optical characterization of silicate modified bismuth-borate-tellurite glasses. Journal of Molecular Structure, 2017, 1127, 636-644.	3.6	101
5	Temperature and frequency dependent conductivity of bismuth zinc vanadate semiconducting glassy system. Journal of Applied Physics, 2012, 112 , .	2.5	88
6	Effect of Bi2O3 on structural, optical, and other physical properties of semiconducting zinc vanadate glasses. Journal of Applied Physics, $2011,110,$.	2.5	77
7	Structural and dielectric properties of substituted barium titanate ceramics for capacitor applications. Ceramics International, 2015, 41, 13425-13432.	4.8	77
8	Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context. Renewable and Sustainable Energy Reviews, 2020, 131, 109965.	16.4	63
9	Study of vibrational spectroscopy, linear and non-linear optical properties of Sm3+ ions doped BaO–ZnO–B2O3 glasses. Solid State Sciences, 2015, 45, 15-22.	3.2	58
10	Effect of doping of Nd3+ ions in BaO–TeO2–B2O3 glasses: A vibrational and optical study. Journal of Molecular Structure, 2015, 1088, 147-154.	3.6	55
11	Dielectric and impedance studies of La and Zn co-doped complex perovskite CaCu3Ti4O12 ceramic. Ceramics International, 2018, 44, 23125-23136.	4.8	55
12	Realization of warm white light and energy transfer studies of Dy3+/Eu3+ co-doped Li2O-PbO-Al2O3-B2O3 glasses for lighting applications. Journal of Luminescence, 2020, 222, 117166.	3.1	52
13	Effect of BaTiO3 on the structural and optical properties of lithium borate glasses. Ceramics International, 2015, 41, 10957-10965.	4.8	49
14	Titanium induced structural modifications in bismuth silicate glasses. Journal of Molecular Structure, 2014, 1063, 77-82.	3.6	48
15	Judd-Ofelt itemization and influence of energy transfer on Sm3+ ions activated B2O3–ZnF2–SrO–SiO2 glasses for orange-red emitting devices. Journal of Luminescence, 2021, 229, 117651.	3.1	47
16	Augmenting the photoluminescence efficiency via enhanced energy-relocation of new white-emanating BaYAlZn3O7:Dy3+ nano-crystalline phosphors for WLEDs. Journal of Alloys and Compounds, 2021, 879, 160371.	5.5	47
17	Temperature and frequency dependent conductivity and electric modulus formulation of manganese modified bismuth silicate glasses. Journal of Non-Crystalline Solids, 2015, 423-424, 1-8.	3.1	46
18	Physical, structural and optical characterizations of borate modified bismuth–silicate–tellurite glasses. Journal of Molecular Structure, 2015, 1097, 37-44.	3.6	46

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19	Conduction mechanism in bismuth silicate glasses containing titanium. Physica B: Condensed Matter, 2014, 452, 102-107.	2.7	45
20	A study on the structural and photocatalytic degradation of ciprofloxacine using (70B 2 O 3 –29Bi 2 O) Tj ETQq	0,0 0 rgBT	1 <mark>9</mark> verlock 1
21	Structural properties and electrical transport characteristics of modified lithium borate glass ceramics. Journal of Alloys and Compounds, 2017, 696, 529-537.	5.5	43
22	Dielectric relaxation and conduction mechanism of complex perovskite Ca0.90Sr0.10Cu3Ti3.95Zn0.05O12 ceramic. Ceramics International, 2018, 44, 5996-6001.	4.8	42
23	Effect of replacement of Bi2O3 by Li2O on structural, thermal, optical and other physical properties of zinc borate glasses. Journal of Molecular Structure, 2020, 1219, 128589.	3.6	41
24	Hopping conduction in bismuth modified zinc vanadate glasses: An applicability of Mott's model. Journal of Applied Physics, 2012, 112, .	2.5	40
25	Iron modified structural and optical spectral properties of bismuth silicate glasses. Physica B: Condensed Matter, 2014, 450, 39-44.	2.7	40
26	Concentration dependence of intensity parameters and radiative properties of Sm3+ ions doped in BaO–ZnO–B2O3 glasses. Journal of Alloys and Compounds, 2016, 676, 521-526.	5.5	35
27	In situ decoration of silver nanoparticles on single-walled carbon nanotubes by microwave irradiation for enhanced and durable anti-bacterial finishing on cotton fabric. Ceramics International, 2019, 45, 1011-1019.	4.8	33
28	Probing into multifunctional deep orange-red emitting Sm3+-activated zincate based nanomaterials for wLED applications. Chemical Physics Letters, 2021, 777, 138743.	2.6	33
29	One pot synthesis and electromagnetic interference shielding behavior of reduced graphene oxide nanocomposites decorated with Ni0.5Co0.5Fe2O4 nanoparticles. Journal of Alloys and Compounds, 2021, 887, 161472.	5.5	32
30	Structural, optical, thermal and other physical properties of Bi2O3 modified Lithium Zinc Silicate glasses. Journal of Molecular Structure, 2021, 1234, 130160.	3.6	30
31	Generation of cost-effective conventional-combustion derived novel green-luminous BaLa2ZnO5:Er3+ nanomaterials for high quality illumination in WLEDs and solar-cells. Chemical Physics Letters, 2021, 777, 138752.	2.6	30
32	Determination of valence and conduction band offsets in Zn0.98Fe0.02O/ZnO hetero-junction thin films grown in oxygen environment by pulsed laser deposition technique: A study of efficient UV photodetectors. Journal of Alloys and Compounds, 2018, 768, 978-990.	5.5	29
33	Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system. Journal of Molecular Structure, 2015, 1079, 189-193.	3.6	28
34	Judd-Ofelt Parameterization and Luminescence Characterization of Dy3+ Doped Oxyfluoride Lithium Zinc Borosilicate Glasses for Lasers and w-LEDs. Journal of Non-Crystalline Solids, 2020, 544, 120187.	3.1	28
35	Resonant and Non-resonant Nonlinear Optical Properties of Er3+ modified BaO-ZnO-B2O3 Glasses at 532 and 1550 nm. Journal of Non-Crystalline Solids, 2020, 541, 120155.	3.1	27
36	Correlation between multifunctional properties of lead free Iron doped BCT perovskite ceramics. Ceramics International, 2020, 46, 17495-17507.	4.8	26

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37	Study of structural, dielectric, ferroelectric and magnetic properties of vanadium doped BCT ceramics. Ceramics International, 2019, 45, 20368-20378.	4.8	25
38	Crystal configuration, luminescence dynamics and facile combustion-fabrication of high-brightness YAG:Sm3+ nanomaterials towards competent illuminating appliances, especially WLEDs and solar-cells. Chemical Physics Letters, 2021, 779, 138831.	2.6	25
39	Manganese modified structural and optical properties of bismuth silicate glasses. Journal of Molecular Structure, 2015, 1089, 32-37.	3.6	23
40	Electronic transport and relaxation studies in bismuth modified zinc boro-tellurite glasses. Solid State Sciences, 2015, 48, 230-236.	3.2	23
41	Enhancement in magnetic, piezoelectric and ferroelectric properties on substitution of titanium by iron in barium calcium titanate ceramics. Ceramics International, 2016, 42, 12167-12171.	4.8	22
42	Luminescence tuning and structural analysis of new BaYAlZn3O7:Sm3+ nanomaterials with excellent performance for advanced optoelectronic appliances. Journal of Materials Science: Materials in Electronics, 2021, 32, 15930-15943.	2.2	21
43	Electrical conductivity and modulus formulation in zinc modified bismuth boro-tellurite glasses. Indian Journal of Physics, 2016, 90, 1033-1040.	1.8	19
44	Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system. Indian Journal of Physics, 2014, 88, 1169-1173.	1.8	17
45	Structural, optical, electrical, and magnetic properties of Zn _{0.7} Mn _{<i>x</i>} Ni _{0.3â°'<i>x</i>} O nanoparticles synthesized by solâ€"gel technique. Cogent Physics, 2015, 2, 1055623.	0.7	16
46	X-ray photoelectron spectroscopy investigations of band offsets in Ga0.02Zn0.98O/ZnO heterojunction for UV photodetectors. Journal of Applied Physics, 2017, 122, .	2.5	16
47	Role of charge compensation mechanism and defect dipoles on properties of Mn doped BCT ceramics. Ceramics International, 2021, 47, 11491-11505.	4.8	16
48	Physical, structural and optical characterization of Dy3+ doped ZnF2-WO2-B2O3-TeO2 glasses for opto-communication applications. Optical Materials, 2021, 114, 110937.	3.6	16
49	Structural and dielectric properties of Ca _{0.95} Nd _{0.5} . _{0.5} Cu ₃ Ti _{3.95} Zr _{0.05} O <ferroelectrics, 156-166.<="" 2017,="" 516,="" td=""><td>(sob) 12<,</td><td>/su5>cerami</td></ferroelectrics,>	(s ob) 12<,	/su 5 >cerami
50	An approach for correlating electrically heterogeneous structure to enhanced dielectric properties of Sr and Zn co-substituted CaCu3Ti4O12 ceramics. Journal of Alloys and Compounds, 2018, 769, 1102-1112.	5 . 5	15
51	<scp>DC</scp> Conduction and Electric Modulus Formulation of Lithiumâ€Doped Bismuth Zinc Vanadate Semiconducting Glassy System. Journal of the American Ceramic Society, 2015, 98, 2776-2783.	3.8	14
52	Conductivity and modulus formulation in lithium modified bismuth zinc borate glasses. Solid State Sciences, 2016, 55, 98-105.	3.2	14
53	Study of all-optical switching properties of zinc phthalocyanine thin film by pump-probe technique. Optics and Laser Technology, 2017, 95, 100-104.	4.6	13
54	Influence of hydrostatic pressure and spin orbit interaction on optical properties in quantum wire. Physica B: Condensed Matter, 2019, 552, 202-208.	2.7	13

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55	New Ba2YAlO5:Dy3+ nanomaterials for WLEDs: Propellant combustion synthesis and photometric features for enhanced emission of cool-white light under NUV excitation. Chemical Physics Letters, 2021, 781, 138985.	2.6	13
56	Structural, thermal, optical and luminescence properties of Dy3+ ions doped Zinc Potassium Alumino Borate glasses for optoelectronics applications. Journal of Non-Crystalline Solids, 2022, 588, 121613.	3.1	13
57	Structural and Physical Properties of ZnO Modified Bismuth Silicate Glasses. ISRN Spectroscopy, 2012, 2012, 1-5.	0.9	12
58	Structural investigation and giant dielectric response of CaCu3Ti4O12 ceramic by Nd/Zr co-doping for energy storage applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 10825-10833.	2.2	12
59	Near unity green emission with radiative and non-radiative itemization into novel energy-efficient Sr6Al4Y2O15:Er3+ nanomaterials for WLEDs. Chemical Physics Letters, 2021, 781, 139013.	2.6	11
60	Enhanced visible green and $1.5 \hat{A}^{1}$ /4m radiative emission of Er3+ ions in Li2O-PbO-Al2O3-B2O3 glasses for photonic applications. Journal of Rare Earths, 2021, 39, 520-525.	4.8	10
61	Optimizing the highly efficient cool-white luminescence via modulating Dy3+ ion into novel Sr6Al4Y2O15 nanocrystals for white LEDs. Journal of Materials Science: Materials in Electronics, 2021, 32, 23486-23499.	2.2	10
62	Ecofriendly synthesis and white light-emitting properties of BaLa2ZnO5:Dy3+ nanomaterials for lighting application in NUV-WLEDs and solar cells. Chemical Physics Letters, 2022, 792, 139399.	2.6	10
63	ZnCl ₂ Modified Physical and Optical Properties of Barium Tellurite Glasses. Transactions of the Indian Ceramic Society, 2013, 72, 206-210.	1.0	9
64	Study of energy storage and electrocaloric behavior of lead-free Fe-doped BCT ceramics. Ferroelectrics, 2020, 569, 136-147.	0.6	9
65	Spectral characteristics of Tb3+ doped ZnF2–K2O–Al2O3–B2O3 glasses for epoxy free tricolor w-LEDs and visible green laser applications. Journal of Luminescence, 2022, 244, 118676.	3.1	9
66	Impact of Triple Roll Milling Processing Parameters on Fluidic/Rheological and Electrical Properties of Aqueous Graphene Ink. Advanced Engineering Materials, 2020, 22, 1901187.	3.5	8
67	Zinc chloride modified electronic transport and relaxation studies in barium-tellurite glasses. Electronic Materials Letters, 2017, 13, 412-419.	2.2	8
68	Design of Bright-Green Radiating Er3+-Singly Activated Zincate-Based Nanomaterials for High-Performance Optoelectronic Devices. Journal of Electronic Materials, 2022, 51, 391-402.	2,2	8
69	Fabrication of n-TiO2/p-Si Photo-Diodes for Self-Powered Fast Ultraviolet Photodetectors. Silicon, 2022, 14, 11891-11901.	3.3	8
70	Fe2O3 Modified Physical, Structural and Optical Properties of Bismuth Silicate Glasses. Journal of Materials, 2013, 2013, 1-5.	0.1	7
71	Study of vibrational spectroscopy, linear and nonlinear optical properties of borate-modified tellurium–silica–bismuthate glasses. Indian Journal of Physics, 2020, 94, 1643-1652.	1.8	7
72	Understanding the electrode polarization in bismuth zinc vanadate semiconducting glasses from dielectric spectroscopy: A new insight on electrode polarization effect. Journal of Non-Crystalline Solids, 2021, 574, 121174.	3.1	7

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73	Formation of non-alloyed Ti/Al/Ni/Au low-resistance ohmic contacts on reactively ion-etched n-type GaN by surface treatment for GaN light-emitting diodes applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	6
74	Physical, Optical and Structural Properties of xLi2O-(50–x)Bi2O3-10ZnO-40B2O3Glasses. Transactions of the Indian Ceramic Society, 2012, 71, 225-228.	1.0	5
75	Effect of ZnO on the physical and optical properties of tellurite base glasses. , 2013, , .		5
76	Physical, optical and structural properties of xNa[sub 2]Oâ^'(50â^'x)Bi[sub 2]O[sub 3]â^'10ZnOâ^'40B[sub 2]O[sub 3] glasses. AIP Conference Proceedings, 2013, , .	0.4	5
77	Optical Characterization of Zinc Modified Bismuth Silicate Glasses. International Journal of Optics, 2015, 2015, 1-9.	1.4	5
78	Thermal and structural properties of zinc modified tellurite based glasses. AIP Conference Proceedings, 2016, , .	0.4	4
79	Synthesis and structural characterization of light-weight ferrite-reduced graphene oxide composite. AIP Conference Proceedings, 2019, , .	0.4	4
80	Effect of Fe[sub 2]O[sub 3] on the physical and structural properties of bismuth silicate glasses. , 2013, , .		3
81	Opto-Electronic and Crystallographic Analysis of Orangish-Red Radiating Ba2YAlO5:Sm3+ Nanomaterials for Potential wLED Applications. Journal of Electronic Materials, 2021, 50, 6964-6973.	2.2	3
82	Effect of microwave-assisted sintering on dielectric properties of CaCu3Ti4O12 ceramic. AIP Conference Proceedings, 2016, , .	0.4	2
83	Structural characterization of ZnCl2 modified tellurite based glasses. AIP Conference Proceedings, 2016, , .	0.4	2
84	Dosimetric studies of cadmium free alloy used in compensator based intensity modulated radiotherapy. Radiation Physics and Chemistry, 2017, 139, 184-189.	2.8	2
85	Coating of multi-walled carbon nanotubes on cotton fabric via conventional dyeing for enhanced electrical and mechanical properties. AIP Conference Proceedings, 2019, , .	0.4	2
86	Non-linear optical properties of SiO2 modified Bi2O3-TeO2-B2O3 glass system. AIP Conference Proceedings, 2019, , .	0.4	2
87	Excellent photoelectrical properties of ZnO thin film based on ZnO/epoxy-resin ink for UV-light detectors. AIP Conference Proceedings, 2019, , .	0.4	2
88	SynthesisÂof graphene from activated carbon at liquid nitrogen temperature and its detailed structural analysis. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
89	Effect of scattering and differential attenuation on beam profile in the presence of high-density intensity modifying compensator. Journal of Cancer Research and Therapeutics, 2019, 15, 110.	0.9	2
90	Low-Cost Combustion Synthesis, Spectroscopic and Optoelectronic Analysis of Novel Ba ₂ YAlO ₅ :Er ³⁺ Nanomaterials for Competent Illumination Applications. Transactions of the Indian Ceramic Society, 2021, 80, 234-241.	1.0	2

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91	Optical second order nonlinearity in ultraviolet poled chalcogenide thin films. Journal of Optics (India), 2015, 44, 417-422.	1.7	1
92	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd ³⁺ Modified Solid Solutions. Integrated Ferroelectrics, 2019, 203, 176-182.	0.7	1
93	Investigation on Multiferroic Properties and Conduction Mechanism in Cobalt Doped Bi _{0.9} Nd _{0.1} FeO ₃ Solid Solutions. Transactions of the Indian Ceramic Society, 2021, 80, 142-149.	1.0	1
94	Physical and structural properties of Nd[sup 3+] doped BaO-ZnO-B[sub 2]O[sub 3] glasses., 2013,,.		0
95	Optical properties of Bi[sub 0.1]Zn[sub 0.45]VO[sub 3.1] thin films using UV-VIS-NIR spectroscopy. , 2013, , .		O
96	Characterization and optical properties of Fe2O3-PbO-B2O3 glasses. AIP Conference Proceedings, 2016, ,	0.4	0
97	Linear and nonlinear optical characterization of neodymium doped barium-zinc-borate glasses. AIP Conference Proceedings, 2019, , .	0.4	0
98	Judd-Ofelt intensity parameters of Nd3+ ions doped in BaO-ZnO-B2O3 glasses. AIP Conference Proceedings, 2019, , .	0.4	0
99	Effects on electrical and optical properties of InGaN/GaN MQWs light-emitting diodes using Ni/ITO transparent p-contacts on p-GaN. Journal of Optics (India), 2019, 48, 240-245.	1.7	O
100	InGaN/GaN Multiple Quantum Well Blue Light Emitting Diodes with Transparent Ni/ITO and Pt/ITO p-Type Contacts. Springer Proceedings in Physics, 2019, , 1005-1012.	0.2	0
101	Highly Reflective Low Resistance Pt/Ag/Ni/Au Based Ohmic Contacts on p-GaN. Springer Proceedings in Physics, 2019, , 1095-1101.	0.2	0
102	Electrical and optical properties of InGaN/GaN MQWs light-emitting diodes with Ni/Au/ITO transparent p-contacts. Indian Journal of Physics, 2020, 94, 183-187.	1.8	0
103	Validation of intensity-modulated radiotherapy commissioning as per recommendations in test plans of the American Association of Physicists in Medicine task group 119 report. Radiation Protection and Environment, 2016, 39, 138.	0.2	0
104	Study of Dosimetric Properties of Flattening Filter Free Photon Beam Passing through Cadmium Free Compensator Alloy. Journal of Biomedical Physics and Engineering, 2019, 9, 647-652.	0.9	O