Venkata Krishnaiah Kummara

List of Publications by Year
in descending order

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61 papers	1,204 citations	394421 19 h-index	395702 33 g-index
61 all docs	61 docs citations	61 times ranked	874 citing authors

#	Article	IF	Citations
1	Spectroscopic properties of Dy³⁺-doped oxyfluoride glasses for white light emitting diodes. Materials Express, 2013, 3, 61-70.	0.5	127
2	Structural and luminescence behavior of lead fluoroborate glasses containing Eu3+ ions. Physica B: Condensed Matter, 2013, 416, 88-100.	2.7	97
3	Development of ytterbium-doped oxyfluoride glasses for laser cooling applications. Scientific Reports, 2016, 6, 21905.	3.3	76
4	Concentration dependent luminescence properties of Sm3+-ions in telluriteâ€“tungstenâ€“zirconium glasses. Optical Materials, 2015, 40, 26-35.	3.6	71
5	Ytterbium-doped glass-ceramics for optical refrigeration. Optics Express, 2015, 23, 4630.	3.4	55
6	Er3+-doped tellurite glasses for enhancing a solar cell photocurrent through photon upconversion upon 1500Ânm excitation. Materials Chemistry and Physics, 2017, 199, 67-72.	4.0	49
7	Luminescence and energy transfer in Dy 3+ /Tb 3+ co-doped transparent oxyfluorosilicate glass-ceramics for green emitting applications. Materials Research Bulletin, 2016, 83, 507-514.	5.2	41
8	Spectroscopy and radiation trapping of Yb3+ ions in lead phosphate glasses. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 140, 37-47.	2.3	36
9	Structure, morphology and optical characterization of Dy 3+ -doped BaYF 5 nanocrystals for warm white light emitting devices. Optical Materials, 2017, 70, 16-24.	3.6	36
10	Investigations on luminescence behavior of Er 3+ /Yb 3+ co-doped boro-tellurite glasses. Journal of Molecular Structure, 2015, 1079, 130-138.	3.6	34
11	Ytterbium-doped oxyfluoride nano-glass-ceramic fibers for laser cooling. Optical Materials Express, 2017, 7, 1980.	3.0	34
12	Luminescence properties of europium doped oxyfluorosilicate glasses for visible light devices. Optical Materials, 2018, 83, 348-355.	3.6	28
13	Spectroscopy and near infrared upconversion of Er 3+ -doped TZNT glasses. Journal of Luminescence, 2016, 169, 270-276.	3.1	27
14	Spectroscopic studies on Yb 3+ -doped tungsten-tellurite glasses for laser applications. Journal of Non-Crystalline Solids, 2018, 479, 9-15.	3.1	27
15	Investigation of spectroscopic properties of Sm3+-doped oxyfluorophosphate glasses for laser and display applications. Materials Research Bulletin, 2019, 110, 223-229.	5.2	27
16	Raman and photoluminescence studies of europium doped zinc-fluorophosphate glasses for photonic applications. Journal of Non-Crystalline Solids, 2019, 505, 115-121.	3.1	24
17	Quantum cutting and near-infrared emissions in Ho3+/Yb3+ codoped transparent glass-ceramics. Journal of Luminescence, 2020, 226, 117424.	3.1	23
18	Optical and luminescence properties of Dy3+ ions in Kâ€“Srâ€“Al phosphate glasses for yellow laser applications. Applied Physics B: Lasers and Optics, 2014, 117, 75-84.	2.2	21

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19	Holmium doped bismuth-germanate glasses for green lighting applications: A spectroscopic study. Optical Materials, 2019, 94, 436-443.	3.6	21
20	Visible up-conversion and near-infrared luminescence of Er3+/Yb3+ co-doped SbPO4-GeO2 glasses. Optical Materials, 2016, 57, 71-78.	3.6	20
21	Structural, optical and photoresponse characteristics of metal-insulator-semiconductor (MIS) type Au/Ni/CeO2/GaN Schottky barrier ultraviolet photodetector. Materials Science in Semiconductor Processing, 2020, 117, 105190.	4.0	20
22	Photoluminescence of dysprosium doped antimony-magnesium-strontium-oxyfluoroborate glasses. Ceramics International, 2018, 44, 21303-21308.	4.8	18
23	Photon avalanche upconversion in Ho3+â€“Yb3+ co-doped transparent oxyfluoride glassâ€“ceramics. Chemical Physics Letters, 2014, 600, 34-37.	2.6	17
24	Enhancement of 1.8â€Î¼m emission in Er3+/Tm3+ co-doped tellurite glasses: Role of energy transfer and dual wavelength pumping schemes. Journal of Alloys and Compounds, 2020, 827, 154038.	5.5	17
25	Optical properties of Yb3+ ions in fluorophosphate glasses for 1.0ÂÎ¼m solid-state infrared lasers. Applied Physics B: Lasers and Optics, 2013, 113, 527-535.	2.2	16
26	Investigation of optical and spectroscopic properties of neodymium doped oxyfluoro-titania-phosphate glasses for laser applications. Scripta Materialia, 2019, 162, 246-250.	5.2	15
27	High performance, self-powered and thermally stable 200â€“750Ânm spectral responsive gallium nitride (GaN) based broadband photodetectors. Solar Energy Materials and Solar Cells, 2021, 225, 111033.	6.2	15
28	Three- and two-photon upconversion luminescence switching in Tm3+/Yb3+-codoped sodium niobate nanophosphor. Journal of Nanophotonics, 2014, 8, 083093.	1.0	14
29	Spontaneous and stimulated emission spectroscopy of a Nd(3+)-doped phosphate glass under wavelength selective pumping. Optics Express, 2011, 19, 19440-53.	3.4	14
30	Enhanced photoresponse performance in GaN based symmetric type MSM ultraviolet-A and MIS ultraviolet-A to C photodetectors. Sensors and Actuators A: Physical, 2022, 339, 113502.	4.1	13
31	Development of Yb3+-doped oxyfluoride glass-ceramics with low OHâ^’content containing CaF2nanocrystals for optical refrigeration. Optical Engineering, 2016, 56, 011103.	1.0	12
32	Near infrared broadband and visible upconversion emissions of erbium ions in oxyfluoride glasses for optical amplifier applications. Optics and Laser Technology, 2020, 127, 106167.	4.6	10
33	Preparation and Characterization of Yb³⁺-Doped Metaphosphate Glasses for High Energy and High Power Laser Applications. Science of Advanced Materials, 2013, 5, 276-284.	0.7	10
34	Highly sensitive and cost-effective metal-semiconductor-metal asymmetric type Schottky metallization based ultraviolet photodetecting sensors fabricated on n-type GaN. Materials Science in Semiconductor Processing, 2022, 138, 106297.	4.0	10
35	Dysprosium doped niobium zinc fluorosilicate glasses: Interesting materials for white light emitting devices. Optik, 2019, 176, 457-463.	2.9	9
36	Optical and spectroscopic properties of Ho3+-doped fluorophosphate glasses for visible lighting applications. Materials Research Bulletin, 2020, 124, 110753.	5.2	9

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37	Structure and morphology of yttrium doped barium titanate ceramics for multi-layer capacitor applications. Materials Today: Proceedings, 2021, 46, 259-262.	1.8	9
38	Studies on green emitting characteristics of sol-gel derived Er3+-doped Ca2La8(SiO4)6O2 phosphors. Optik, 2021, 242, 167263.	2.9	9
39	Fluorescence and Spectroscopic Properties of Yb3+-Doped Phosphate Glasses. Physics Procedia, 2012, 29, 109-113.	1.2	8
40	Photoluminescence of terbium doped oxyfluoro-titania-phosphate glasses for green light devices. Ceramics International, 2018, 44, 15304-15309.	4.8	8
41	Photonic properties of novel Yb3+ doped germanium-lead oxyfluoride glass-ceramics for laser cooling applications. Frontiers of Optoelectronics, 2018, 11, 189-198.	3.7	8
42	Structure and EPR investigations on Gd3+ ions in magnesium-lead-borophosphate glasses. Journal of Molecular Structure, 2020, 1208, 127877.	3.6	7
43	Orange light emission from co-precipitation derived CaZr4(PO4)6 doped with Sm3+ phosphor. Optik, 2021, 242, 167229.	2.9	7
44	Optical properties of ytterbium doped oxyfluoride glass-ceramics - Concentration and temperature dependence studies for optical refrigeration applications. Journal of Luminescence, 2021, 238, 118278.	3.1	7
45	Broadband Near-Infrared Luminescence and Visible Upconversion of Er³⁺-Doped Tungstate-Tellurite Glasses. Science of Advanced Materials, 2015, 7, 345-353.	0.7	7
46	Optical and radiative properties of Sm3+ions activated alkali-bismuth-germanate glasses. Journal of Luminescence, 2019, 214, 116566.	3.1	6
47	Evaluation of temperature dependent electrical transport parameters in Fe3O4/SiO2/n-Si metalâ€“insulator-semiconductor (MIS) type Schottky barrier heterojunction in a wide temperature range. Journal of Materials Science: Materials in Electronics, 2019, 30, 8955-8966.	2.2	6
48	Role of excitation wavelength and dopant concentration on white light tunability of dysprosium doped titania-fluorophosphate glasses. Optical Materials, 2021, 111, 110593.	3.6	6
49	Statistical analysis of currentâ€“voltage characteristics in Au/Ta2O5/n-GaN Schottky barrier heterojunction using different methods. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
50	A Study on Annealing Process Influenced Electrical Properties of Ni/CeO₂/pâ€Si/Al Schottky Barrier Diodes. Macromolecular Symposia, 2021, 398, 2000228.	0.7	4
51	Luminescence and electron spin resonance studies of narrow-band UVB emitting Gd3+ doped Y2SiO5 nanophosphors synthesized by sol-gel method. Optik, 2021, 242, 167228.	2.9	4
52	Broadband Emission in Tellurite Glasses. Springer Series in Materials Science, 2017, , 155-211.	0.6	2
53	Structural and Morphological Studies of Bi₂O₃/MWCNTs Doped Reduced Graphene Oxide for Energy Storage Applications. ECS Journal of Solid State Science and Technology, 2022, 11, 031004.	1.8	2
54	White light generation in Dy³⁺-doped fluorosilicate glasses for W-LED applications. Proceedings of SPIE, 2011, , .	0.8	1

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55	Prospects of optical refrigeration in oxyfluoride glasses and glass-ceramics: experiments. Proceedings of SPIE, 2015, , .	0.8	1
56	Lanthanide-Doped Tellurite Glasses for Solar Energy Harvesting. , 2018, , 249-273.		1
57	Fabrication of planar waveguides in oxyfluoride glass-ceramics by simple heat-treatment. , 2015, , .		1
58	Ytterbium-doped oxyfluoride nano-glass-ceramic fibers for laser cooling. , 2015, , .		1
59	Progress in rare-earth-doped nanocrystalline glass-ceramics for laser cooling. Proceedings of SPIE, 2016, , .	0.8	0
60	Fabrication and Characterization of 3D-Waveguides in Eu3+-doped Oxyfluorosilicate Glass. , 2012, , .		0
61	Investigations on functional properties of Al_{0.8}Eu_yLa_{0.2-y}TiO₃ (y = 0.01 - 0.04) nanoparticles synthesized by hydrothermal method. Surface Review and Letters, 0, , .	1.1	0