Vemula Venkatramu

List of Publications by Year
in descending order

79 papers	2,601 citations	147801 31 h-index	197818 49 g-index
79 all docs	79 docs citations	79 times ranked	1962 citing authors

#	Article	IF	Citations
1	Agricultural waste for the development of low cost Ca2SiO4:Pr3+ phosphors. Journal of Luminescence, 2022, 250, 119059.	3.1	4
2	Optimization of N doping in TiO2 nanotubes for the enhanced solar light mediated photocatalytic H2 production and dye degradation. Environmental Pollution, 2021, 269, 116170.	7.5	58
3	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
4	Solid state thiazole-based fluorophores: Promising materials for white organic light emitting devices. Dyes and Pigments, 2021, 187, 109077.	3.7	6
5	Stokes and upconverted luminescence in Er³⁺/Yb³⁺-doped Y₃Ga₅O₁₂ nano-garnets. Dalton Transactions, 2021, 50, 9512-9518.	3.3	5
6	Structure, and opto-dielectric investigations of Cu2+ -doped calcium bismuth silicate glass ceramics. Optical Materials, 2021, 113, 110876.	3.6	6
7	ZrxCa30-xP70 thermoluminescent bio glass, structure and elasticity. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104517.	3.1	5
8	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H2 production in crude glycerol and sulphide wastewater. Environmental Research, 2021, 199, 111323.	7.5	20
9	Spectroscopic study of Nd3+ ion-doped Zn-Al-Ba borate glasses for NIR emitting device applications. Optical Materials, 2020, 107, 110018.	3.6	43
10	Quantum cutting and near-infrared emissions in Ho3+/Yb3+ codoped transparent glass-ceramics. Journal of Luminescence, 2020, 226, 117424.	3.1	23
11	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
12	Near-infrared and upconversion luminescence of Tm3+ and Tm3+/Yb3+-doped oxyfluorosilicate glasses. Journal of Non-Crystalline Solids, 2019, 507, 1-10.	3.1	40
13	Optical and radiative properties of Sm3+ions activated alkali-bismuth-germanate glasses. Journal of Luminescence, 2019, 214, 116566.	3.1	6
14	Optical and X-ray induced luminescence of Sm3+ -doped borotellurite and fluoroborotellurite glasses: A comparative study. Journal of Luminescence, 2019, 213, 19-28.	3.1	40
15	Dysprosium doped niobium zinc fluorosilicate glasses: Interesting materials for white light emitting devices. Optik, 2019, 176, 457-463.	2.9	9
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	Luminescence and decay characteristics of Tb³⁺-doped fluorophosphate glasses. Journal of Asian Ceramic Societies, 2018, 6, 82-87.	2.3	38
18	Optical Absorption and EPR Studies on Gamma-Ray Irradiated RE3+-Doped Fluorophosphate Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 594-602.	3.7	5

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19	High pressure luminescence of Nd3+ in YAlO3 perovskite nanocrystals: A crystal-field analysis. Journal of Chemical Physics, 2018, 148, 044201.	3.0	21
20	Near-infrared and blue cooperative Yb3+ luminescence in Lu3Sc2Ga3O12 nano-garnets. Materials Research Bulletin, 2018, 101, 347-352.	5.2	9
21	Role of Dy³⁺ â†' Sm³⁺ energy transfer in the tuning of warm to cold white light emission in Dy³⁺/Sm³⁺ co-doped Lu₃Ga₅O₁₂ nano-garnets. New Journal of Chemistry, 2018, 42, 1260-1270.	2.8	36
22	Effect of concentration on spectral properties of lanthanide ions-doped fluorophosphate glasses. Materials Today: Proceedings, 2018, 5, 14981-14985.	1.8	0
23	Structural and luminescence properties of Sm 3+ -doped Ca 2 SiO 4 phosphors from agricultural waste. Materials Today: Proceedings, 2018, 5, 15081-15085.	1.8	6
24	Lanthanide-doped Y3Ga5O12 garnets for nanoheating and nanothermometry in the first biological window. Optical Materials, 2018, 84, 46-51.	3.6	25
25	Lanthanide-Doped Tellurite Glasses for Solar Energy Harvesting. , 2018, , 249-273.		1
26	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
27	Spectroscopic Properties of Yb³⁺-Doped Silicate Glasses. Zeitschrift Fur Physikalische Chemie, 2017, 232, 51-60.	2.8	3
28	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
29	Synthesis of Ca2SiO4:Dy3+ phosphors from agricultural waste for solid state lighting applications. Ceramics International, 2017, 43, 16622-16627.	4.8	36
30	Visible upconversion in Er 3+ /Yb 3+ co-doped LaAlO 3 phosphors. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 229-235.	3.9	28
31	Stokes and anti-Stokes luminescence in Tm³⁺/Yb³⁺-doped Lu₃Ga₅O₁₂ nano-garnets: a study of multipolar interactions and energy transfer dynamics. Physical Chemistry Chemical Physics, 2016, 18, 14720-14729.	2.8	19
32	Effect of P2O5 addition on structural and luminescence properties of Nd3+-doped tellurite glasses. Journal of Alloys and Compounds, 2016, 684, 322-327.	5.5	59
33	Nanocrystalline Sm 3+ -doped Lu 3 Ga 5 O 12 garnets: An intense orange-reddish luminescent material for white light emitting devices. Journal of Luminescence, 2016, 179, 533-538.	3.1	22
34	Efficient Nd³⁺ sensitized Yb³⁺ emission and infrared-to-visible energy conversion in gallium nano-garnets. RSC Advances, 2016, 6, 78669-78677.	3.6	13
35	Blueâ€"green cooperative upconverted luminescence and radiative energy transfer in Yb 3+ -doped tungsten tellurite glass. Journal of Luminescence, 2016, 169, 233-237.	3.1	13
36	Infraredâ€toâ€Visible Light Conversion in Er³⁺â€"Yb³⁺:Lu₃Ga₅O₁₂ Nanogarnets. ChemPhysChem, 2015, 16, 3928-3936.	2.1	14

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37	Thermal and optical properties of Nd3+ ions in Kâ€“Caâ€“Al fluorophosphate glasses. Journal of Luminescence, 2015, 166, 328-334.	3.1	55
38	Optical properties of Er³⁺-doped K-Ca-Al fluorophosphate glasses. , 2015, , .		1
39	1.53 Âµm luminescence properties of Er3+-doped Kâ€“Srâ€“Al phosphate glasses. Ceramics International, 2015, 41, 5765-5771.	4.8	57
40	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. Physical Chemistry Chemical Physics, 2015, 17, 9454-9464.	2.8	17
41	Chemical pressure effects on the spectroscopic properties of Nd^3+-doped gallium nano-garnets. Optical Materials Express, 2015, 5, 1661.	3.0	34
42	Optical properties of Er^3+-doped K-Ca-Al fluorophosphate glasses for optical amplification at 153 Î¼m. Optical Materials Express, 2015, 5, 1689.	3.0	32
43	Photon avalanche upconversion in Ho3+-doped gallium nano-garnets. Optical Materials, 2015, 39, 16-20.	3.6	11
44	Optimizing white light luminescence in Dy3+-doped Lu3Ga5O12 nano-garnets. Journal of Applied Physics, 2014, 116, .	2.5	24
45	Spectroscopic properties of Ho 3 + $mathrm{Ho}^{3+}$ -doped Kâ€“Srâ€“Al phosphate glasses. Applied Physics A: Materials Science and Processing, 2014, 115, 689-696.	2.3	4
46	Photon avalanche upconversion in Ho3+â€“Yb3+ co-doped transparent oxyfluoride glassâ€“ceramics. Chemical Physics Letters, 2014, 600, 34-37.	2.6	17
47	Efficient visible upconversion luminescence in Er3+ and Er3+/Yb3+ co-doped Y2O3 phosphors obtained by solution combustion reaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 306-311.	3.9	22
48	Optical properties of Nd3+ doped bismuth zinc borate glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 422-427.	3.9	69
49	Intense up-conversion luminescence in Er3+/Yb3+ co-doped CeO2 powders. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 704-710.	3.9	22
50	Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of Er³⁺ ions in Y₃Ga₅O₁₂ nano-garnets. RSC Advances, 2014, 4, 57691-57701.	3.6	22
51	Luminescence properties of Lu3Al5O12:Tb3+ nano-garnet. Journal of the Korean Physical Society, 2014, 64, 1859-1865.	0.7	8
52	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
53	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. Journal of Physical Chemistry C, 2014, 118, 13177-13185.	3.1	33
54	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

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55	Optical characterization of Er3+-doped zinc fluorophosphate glasses for optical temperature sensors. Sensors and Actuators B: Chemical, 2013, 186, 156-164.	7.8	107
56	Structural, vibrational and dielectric studies of Sm3+-doped Kâ€“Mgâ€“Al zincfluorophosphate glasses. Physica B: Condensed Matter, 2013, 431, 69-74.	2.7	13
57	Optical properties of Sm3+ ions in zinc potassium fluorophosphate glasses. Optical Materials, 2013, 36, 242-250.	3.6	75
58	Infrared emissions in MgSrAl10O17:Er3+ phosphor co-doped with Yb3+/Ba2+/Ca2+ obtained by solution combustion route. Journal of Luminescence, 2013, 134, 396-400.	3.1	6
59	Spectroscopic properties of Sm3+ ions in phosphate and fluorophosphate glasses. Journal of Non-Crystalline Solids, 2013, 365, 85-92.	3.1	62
60	Spectroscopic and dielectric studies of Sm3+ ions in lithium zinc borate glasses. Journal of Non-Crystalline Solids, 2013, 376, 106-116.	3.1	65
61	Structural and Luminescence Properties of Ho³⁺/Yb³⁺-Doped Lu3Ga5O12 Nano-Garnets for Phosphor Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 4495-4501.	0.9	7
62	Synthesis, structure and luminescence of Er3+-doped Y3Ga5O12 nano-garnets. Journal of Materials Chemistry, 2012, 22, 13788.	6.7	62
63	Solâ€“gel synthesis and thermal stability of luminescence of Lu3Al5O12:Ce3+ nano-garnet. Journal of Alloys and Compounds, 2011, 509, 859-863.	5.5	53
64	Effect of high pressure on photoluminescence properties of Eu3+: Kâ€“Baâ€“Alâ€“fluorophosphate glasses. Journal of Alloys and Compounds, 2011, 509, 1172-1177.	5.5	10
65	Optical properties of Yb3+-doped phosphate laser glasses. Journal of Alloys and Compounds, 2011, 509, 5084-5089.	5.5	44
66	Composition and concentration dependence of spectroscopic properties of Nd3+-doped tellurite and metaborate glasses. Optical Materials, 2011, 33, 928-936.	3.6	49
67	Nanocrystalline lanthanide-doped Lu₃Ga₅O₁₂garnets: interesting materials for light-emitting devices. Nanotechnology, 2010, 21, 175703.	2.6	65
68	Role of the local structure and the energy trap centers in the quenching of luminescence of the Tb3+ ions in fluoroborate glasses: A high pressure study. Journal of Chemical Physics, 2010, 132, 114505.	3.0	11
69	Pressure-dependent luminescence properties of Tb³⁺-doped Kâ€“Baâ€“Al fluorophosphate glass. High Pressure Research, 2009, 29, 219-223.	1.2	0
70	1.06Î¼m laser transition characteristics of Nd3+-doped fluorophosphate glasses. Materials Chemistry and Physics, 2009, 117, 131-137.	4.0	20
71	Effect of pressure on luminescence properties of Sm3+ ions in potassium niobate tellurite glass. Journal of Luminescence, 2008, 128, 718-720.	3.1	16
72	Synthesis and luminescence properties of Er3+-doped Lu3Ga5O12 nanocrystals. Journal of Luminescence, 2008, 128, 811-813.	3.1	45

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73	Fluorescence spectroscopy of Sm3+ ions in P2O5â€“PbOâ€“Nb2O5 glasses. Physica B: Condensed Matter, 2008, 403, 3527-3534.	2.7	170
74	Luminescence characteristics of Nd3+-doped Kâ€“Baâ€“Al-fluorophosphate laser glasses. Journal of Alloys and Compounds, 2008, 451, 697-701.	5.5	24
75	Bright White Upconversion Emission from Tm³⁺/Yb³⁺/Er³⁺-Doped Lu₃Ga₅O₁₂ Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 17745-17749.	3.1	148
76	Photoluminescence from the 5D4 level of Tb3+ ions in Kâ€“Baâ€“Al fluorophosphate glass under pressure. Journal of Non-Crystalline Solids, 2007, 353, 1813-1817.	3.1	6
77	Optical spectroscopy of Sm3+ ions in phosphate and fluorophosphate glasses. Optical Materials, 2007, 29, 1429-1439.	3.6	179
78	Fluorescence line narrowing spectral studies of Eu3+-doped lead borate glass. Journal of Non-Crystalline Solids, 2005, 351, 929-935.	3.1	58
79	Luminescence properties of Dy3+ ions in a variety of borate and fluoroborate glasses containing lithium, zinc, and lead. Journal of Alloys and Compounds, 2004, 374, 22-26.	5.5	103