

N V Unnikrishnan

List of Publications by Year in descending order

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44
papers

760
citations

567281

15
h-index

526287

27
g-index

45
all docs

45
docs citations

45
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of Sm ³⁺ ions in zinc potassium fluorophosphate glasses. <i>Optical Materials</i> , 2013, 36, 242-250.	3.6	75
2	Spectroscopic investigations and phonon side band analysis of Eu ³⁺ -doped multicomponent tellurite glasses. <i>Optical Materials</i> , 2017, 70, 31-40.	3.6	70
3	Spectroscopic properties of Er ³⁺ ions in multicomponent tellurite glasses. <i>Journal of Luminescence</i> , 2015, 159, 55-65.	3.1	66
4	Green and facile approach to prepare polypropylene/ <i>in situ</i> reduced graphene oxide nanocomposites with excellent electromagnetic interference shielding properties. <i>RSC Advances</i> , 2018, 8, 30412-30428.	3.6	41
5	Spectroscopic investigations on Eu ³⁺ ions in Li ⁺ -Zn fluorotellurite glasses. <i>Optical Materials</i> , 2014, 37, 552-560.	3.6	39
6	Recent Advances in Polymer Nanocomposites for Electromagnetic Interference Shielding: A Review. <i>ACS Omega</i> , 2022, 7, 25921-25947.	3.5	35
7	NIR emission studies and dielectric properties of Er ³⁺ -doped multicomponent tellurite glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 161, 130-137.	3.9	34
8	Structural and optical characterization of Eu ³⁺ /CdSe nanocrystal containing silica glass. <i>Materials Chemistry and Physics</i> , 2006, 96, 381-387.	4.0	28
9	Structural and luminescence enhancement properties of Eu ³⁺ /Ag nanocrystallites doped SiO ₂ -TiO ₂ matrices. <i>Journal of Rare Earths</i> , 2013, 31, 441-448.	4.8	28
10	Development of Thick Superhydrophilic TiO ₂ /ZrO ₂ Transparent Coatings Realized through the Inclusion of Poly(methyl methacrylate) and Pluronic-F127. <i>ACS Omega</i> , 2018, 3, 14924-14932.	3.5	28
11	Novel SPR based fiber optic sensor for vitamin A using Au@Ag core-shell nanoparticles doped SiO ₂ -TiO ₂ -ZrO ₂ ternary matrix. <i>Applied Surface Science</i> , 2019, 484, 219-227.	6.1	28
12	Investigations on SPR induced Cu@Ag core shell doped SiO ₂ -TiO ₂ -ZrO ₂ fiber optic sensor for mercury detection. <i>Applied Surface Science</i> , 2020, 507, 144957.	6.1	28
13	Synthesis and structural characterization of sol-gel derived titania/poly (vinyl pyrrolidone) nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 41-46.	2.4	25
14	Perceiving impressive optical properties of ternary SiO ₂ -TiO ₂ -ZrO ₂ :Eu ³⁺ sol-gel glasses with high reluctance for concentration quenching: An experimental approach. <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 116-125.	3.1	23
15	Ultrafast optical nonlinearity in nanostructured selenium allotropes. <i>Chemical Physics Letters</i> , 2013, 588, 136-140.	2.6	21
16	Recent advancements in multifunctional applications of sol-gel derived polymer incorporated TiO ₂ -ZrO ₂ composite coatings: A comprehensive review. <i>Applied Surface Science Advances</i> , 2021, 6, 100173.	6.8	15
17	Structural, vibrational and dielectric studies of Sm ³⁺ -doped Mg-Al zincfluorophosphate glasses. <i>Physica B: Condensed Matter</i> , 2013, 431, 69-74.	2.7	13
18	Enhanced resonant nonlinear absorption and optical limiting in Er ³⁺ ions doped multicomponent tellurite glasses. <i>Materials Research Bulletin</i> , 2018, 104, 227-235.	5.2	13

#	ARTICLE	IF	CITATIONS
19	Morphological, dielectric, tunable electromagnetic interference shielding and thermal characteristics of multiwalled carbon nanotube incorporated polymer nanocomposites: A facile, environmentally benign and cost effective approach realized via polymer latex/waterborne polymer as matrix. <i>Polymer Composites</i> , 2018, 39, E1169.	4.6	13
20	Spectroscopic analysis of Eu^{3+} doped silica-titania-polydimethylsiloxane hybrid ORMOSILs. <i>RSC Advances</i> , 2020, 10, 20057-20066.	3.6	13
21	Investigations on spectroscopic properties of Er^{3+} -doped Li-Zn fluoroborate glass. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 148, 43-48.	3.9	12
22	Sm^{3+} -doped fluorophosphate glass: Formation of Ag nanoparticles via Ag^+/K^+ ion exchange and their effects on optical and dielectric properties. <i>Optical Materials</i> , 2015, 39, 167-172.	3.6	12
23	Structural and Spectroscopic Studies of $\text{Sm}^{3+}/\text{CdS}$ Nanocrystallites in Sol-Gel $\text{TiO}_2\text{-ZrO}_2$ Matrix. <i>Journal of Electronic Materials</i> , 2014, 43, 447-451.	2.2	11
24	Structural and optical studies of Eu^{3+} /nanocrystallites doped titania-zirconia hybrids. <i>Journal of Alloys and Compounds</i> , 2014, 615, 188-193.	5.5	11
25	Structural and optical characterization of Eu^{3+} doped polymer-zirconia composites. <i>Journal of Non-Crystalline Solids</i> , 2016, 452, 245-252.	3.1	11
26	Plasmonic and Energy Studies of Ag Nanoparticles in Silica-Titania Hosts. <i>Plasmonics</i> , 2014, 9, 631-636.	3.4	9
27	Freestanding $\text{Ag}_2\text{S}/\text{CuS}$ PVA films with improved dielectric properties for organic electronics. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	9
28	Structural, Optical and AC Electrical Properties of Ce^{3+} -Doped $\text{TiO}_2\text{-SiO}_2$ Matrices. <i>Journal of Electronic Materials</i> , 2015, 44, 2754-2761.	2.2	8
29	Robust polymer incorporated $\text{TiO}_2\text{-ZrO}_2$ microsphere coatings by electrospraying technique with excellent and durable self cleaning, antibacterial and photocatalytic functionalities. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50880.	2.6	7
30	Structural and dielectric studies of Eu^{3+}/Ag nanocrystallites: $\text{SiO}_2\text{-TiO}_2$ matrices. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1727-1733.	2.2	4
31	Spectroscopic investigations of RF sputtered Dy:ZnO as a conductive thin film nanophosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13209-13216.	2.2	4
32	Investigations on the blue luminescence enhancement of organically modified $\text{SiO}_2\text{-TiO}_2\text{-PDMS}$ glass matrix. <i>Nano Structures Nano Objects</i> , 2019, 20, 100377.	3.5	4
33	Fluorescence enhancement in $\text{Sm}^{3+}/\text{TiO}_2$ nanocrystallites doped PVP matrix. <i>Journal of Optics (India)</i> , 2011, 40, 96-100.	1.7	3
34	Optical channel waveguides written by high repetition rate femtosecond laser irradiation in Li-Zn fluoroborate glass. <i>Journal of Optics (India)</i> , 2018, 47, 412-415.	1.7	3
35	Morphological and thermal studies of mesoporous $\text{TiO}_2\text{-ZrO}_2$ and $\text{TiO}_2\text{-ZrO}_2$ -polymer composites as potential self cleaning surface. <i>Materials Today: Proceedings</i> , 2020, 33, 1327-1332.	1.8	3
36	Luminescence enhancement of Eu^{3+} -doped multicomponent tellurite glasses by surface plasmon resonance. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4972-4985.	2.2	3

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37	SPR coupled luminescence enhancement of Er ³⁺ /Au NPs -doped multicomponent tellurite glasses. Optical Materials, 2022, 131, 112637.	3.6	3
38	Highly sensitive and stable Ag nanoparticles decorated TiO ₂ -ZrO ₂ composite SERS substrates for Rhodamine 6G detection. Materials Today: Proceedings, 2020, 33, 1396-1401.	1.8	2
39	Spectroscopic properties of Sm ³⁺ -doped PVDF-ZrO ₂ hybrid membrane. Materials Today: Proceedings, 2020, 25, 151-154.	1.8	2
40	NIR Emission Properties of RE ³⁺ Ions in Multicomponent Tellurite Glasses. , 2018, , 203-224.		1
41	Synthesis and hydrophilic mechanism of porous TiO ₂ -ZrO ₂ transparent coatings. AIP Conference Proceedings, 2019, , .	0.4	1
42	Tunable luminescence of Tb ³⁺ doped SiO ₂ -TiO ₂ -PDMS hybrid ORMOSILs. Journal of Luminescence, 2022, 241, 118520.	3.1	1
43	Studies on electro spraying synthesis and mechanism of sol-gel derived TiO ₂ -ZrO ₂ -poly vinyl pyrrolidone composites as bactericidal coatings. AIP Conference Proceedings, 2020, , .	0.4	0
44	Cover Image, Volume 138, Issue 34. Journal of Applied Polymer Science, 2021, 138, 51243.	2.6	0