

# Sudha D Kamath

## List of Publications by Year in descending order

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40  
papers

851  
citations

430754

18  
h-index

477173

29  
g-index

40  
all docs

40  
docs citations

40  
times ranked

669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition dependent structural and optical properties of PbF <sub>2</sub> -TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Eu <sub>2</sub> O <sub>3</sub> glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 696-706.	2.0	66
2	Principal component analysis and artificial neural network analysis of oral tissue fluorescence spectra: Classification of normal premalignant and malignant pathological conditions. Biopolymers, 2006, 82, 152-166.	1.2	61
3	Investigations on structural and radiation shielding properties of Er <sup>3+</sup> doped zinc bismuth borate glasses. Materials Chemistry and Physics, 2019, 230, 267-276.	2.0	61
4	Physical, structural and optical properties of Sm <sup>3+</sup> doped lithium zinc alumino borate glasses. Journal of Non-Crystalline Solids, 2019, 515, 116-124.	1.5	58
5	Optical pathology using oral tissue fluorescence spectra: classification by principal component analysis and k-means nearest neighbor analysis. Journal of Biomedical Optics, 2007, 12, 014028.	1.4	45
6	Red light emission from europium doped zinc sodium bismuth borate glasses. Physica B: Condensed Matter, 2017, 527, 35-43.	1.3	45
7	Gamma rays interactions with Eu <sub>2</sub> O <sub>3</sub> doped lead fluoroborate glasses. Journal of Alloys and Compounds, 2017, 695, 2781-2798.	2.8	41
8	Energy transfer and luminescence study of Dy <sup>3+</sup> doped zinc-aluminoborosilicate glasses for white light emission. Ceramics International, 2021, 47, 598-610.	2.3	40
9	The effect of 1.25 MeV $\gamma$ rays on Sm <sup>3+</sup> doped lead fluoroborate glasses for reddish orange laser and radiation shielding applications. Journal of Luminescence, 2018, 199, 87-108.	1.5	37
10	Photoluminescence and thermally stimulated luminescence properties of Pr <sup>3+</sup> -doped zinc sodium bismuth borate glasses. Optical Materials, 2018, 84, 268-277.	1.7	35
11	Role of Bi <sub>2</sub> O <sub>3</sub> in altering the structural, optical, mechanical, radiation shielding and thermoluminescence properties of heavy metal oxide borosilicate glasses. Journal of Non-Crystalline Solids, 2020, 542, 120136.	1.5	30
12	Autofluorescence of Normal, Benign, and Malignant Ovarian Tissues: A Pilot Study. Photomedicine and Laser Surgery, 2009, 27, 325-335.	2.1	29
13	Influence of RE oxides (Eu <sup>3+</sup> , Sm <sup>3+</sup> , Nd <sup>3+</sup> ) on gamma radiation shielding properties of lead fluoroborate glasses. Solid State Sciences, 2019, 96, 105959.	1.5	29
14	Photoemission and thermoluminescence characteristics of Dy <sup>3+</sup> -doped zinc sodium bismuth borate glasses. Solid State Sciences, 2019, 89, 130-138.	1.5	28
15	Effect of Sm <sub>2</sub> O <sub>3</sub> on structural and thermal properties of zinc fluoroborate glasses. Transactions of Nonferrous Metals Society of China, 2015, 25, 1185-1193.	1.7	22
16	Dielectric properties and relaxation dynamics in PbF <sub>2</sub> -TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Eu <sub>2</sub> O <sub>3</sub> glasses. Transactions of Nonferrous Metals Society of China, 2015, 25, 2637-2645.	1.7	21
17	Effects of high dose gamma irradiation on the optical properties of Eu <sup>3+</sup> doped zinc sodium bismuth borate glasses for red LEDs. Journal of Luminescence, 2019, 207, 288-300.	1.5	21
18	Absorption Spectroscopy for the Estimation of Glycated Hemoglobin (HbA <sub>1c</sub> ) for the Diagnosis and Management of Diabetes Mellitus: A Pilot Study. Photomedicine and Laser Surgery, 2013, 31, 219-224.	2.1	20

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19	Photoacoustic spectroscopy of ovarian normal, benign, and malignant tissues: a pilot study. <i>Journal of Biomedical Optics</i> , 2011, 16, 067001.	1.4	18
20	Spectroscopic investigation on europium doped heavy metal borate glasses for red luminescent application. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	18
21	Electron beam irradiation on lead fluoroborate glasses doped by europium ions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 619-628.	2.0	15
22	Eu <sup>3+</sup> -doped fluoro-telluroborate glasses as red-emitting components for W-LEDs application. <i>Optical Materials</i> , 2020, 99, 109555.	1.7	15
23	Gamma irradiation on bismuth borate glasses doped by Eu <sup>3+</sup> ions: Structural, optical and mechanical investigations. <i>Optik</i> , 2018, 160, 298-306.	1.4	14
24	Structural, morphological and optical investigations on electron-beam irradiated PbF <sub>2</sub> -TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Eu <sub>2</sub> O <sub>3</sub> glasses. <i>Radiation Physics and Chemistry</i> , 2016, 126, 37-48.	1.4	13
25	Dynamics of L-tryptophan in aqueous solution by simultaneous laser induced fluorescence (LIF) and photoacoustic spectroscopy (PAS). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 187-194.	2.0	12
26	Principal Component Analysis (PCA)-Based k-Nearest Neighbor (k-NN) Analysis of Colonic Mucosal Tissue Fluorescence Spectra. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 659-668.	2.1	12
27	A pilot study on colonic mucosal tissues by fluorescence spectroscopy technique: Discrimination by principal component analysis (PCA) and artificial neural network (ANN) analysis. <i>Journal of Chemometrics</i> , 2008, 22, 408-416.	0.7	9
28	Influence of Bi <sub>2</sub> O <sub>3</sub> on Mechanical Properties and Radiation-Shielding Performance of Lithium Zinc Bismuth Silicate Glass System Using Phys-X Software. <i>Materials</i> , 2022, 15, 1327.	1.3	9
29	Structural and Optical Modifications in the BaO-ZnO-LiF-B <sub>2</sub> O <sub>3</sub> -Yb <sub>2</sub> O <sub>3</sub> Glass System after $\gamma$ -Irradiation. <i>Materials</i> , 2021, 14, 6955.	1.3	7
30	The effects of $\gamma$ rays and electron beam on Eu <sup>3+</sup> + Sm <sup>3+</sup> and Eu <sup>3+</sup> + Nd <sup>3+</sup> co-doped lead fluoroborate glasses. <i>Materials Research Express</i> , 2018, 5, 095204.	0.8	5
31	Mechanical properties of Sm <sup>3+</sup> doped zinc fluoroborate glass. <i>Glass Physics and Chemistry</i> , 2015, 41, 290-295.	0.2	4
32	The effects of 150 kGy dose $\gamma$ rays on Nd <sup>3+</sup> doped lead fluoroborate glasses. <i>Physica B: Condensed Matter</i> , 2019, 556, 136-150.	1.3	3
33	Evaluation of Bismuth Added HMO Glasses in Terms of Thermal, Mechanical, Gamma Radiation Shielding and Thermoluminescence Properties. <i>Materials Research</i> , 2021, 24, .	0.6	3
34	Effects of 7.5 MeV electron beam irradiation on optical properties of Eu <sup>3+</sup> -doped zinc sodium bismuth borate glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 446, 5-9.	0.6	2
35	Autofluorescence of Osteoporotic Mouse Femur Bones: A Pilot Study. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 227-232.	2.1	1
36	Thermoluminescence dosimetric attributes of Yb <sup>3+</sup> doped BaO-ZnO-LiF-B <sub>2</sub> O <sub>3</sub> -O <sub>3</sub> glass material after Er <sup>3+</sup> co-doping. <i>Luminescence</i> , 2022, , .	1.5	1

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37	Mechanical property evaluation of tellurite-germanate glasses and comparison of their radiation-shielding characteristics using EPICS2017 to other glass systems. Open Chemistry, 2022, 20, 361-369.	1.0	1
38	Optical properties of Eu <sub>2</sub> O <sub>3</sub> doped lead fluoroborate glass. , 2012, , .		0
39	Physical and optical properties of Pr <sub>6</sub> O <sub>11</sub> doped zinc fluoroborate glass. , 2013, , .		0
40	Absorption Spectroscopy for the Quantification of Serum Thyroglobulin and Thyroglobulin Antibody Levels in Differentiated Thyroid Carcinoma Patients: A Pilot Study. Journal of Medical Imaging and Health Informatics, 2014, 4, 262-266.	0.2	0